

BÖLLHOFF

RIVKLE®

Blind rivet nuts and studs



A man with short brown hair and a goatee, wearing clear safety glasses and a blue t-shirt, is leaning over a large industrial machine in a factory. He is smiling slightly and looking towards the camera. The machine is red and blue, with various mechanical parts and tools visible. The background shows more of the factory environment with blue structural elements.

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 RIVKLE® 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, RIVKLE® 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 RIVKLE® solution into your production process, as it does not require your operators to have any particular qualifications or safety equipment.

■ **Simple to use**

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



PERFORMANCE



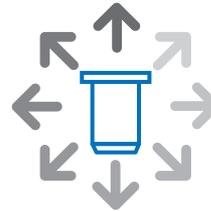
■ **A repeatable solution**

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

■ **A competitive global solution**

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

VERSATILITY



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

You can integrate RIVKLE® at any stage of your production process, either before or after surface coating. In fact, the RIVKLE® 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 RIVKLE® components can be set either with hand tools or with automatic setting units on robots, the RIVKLE® technology can fit into all your production environments.

■ **Compatibility with all application materials**

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

■ **Installation with access from only one side**

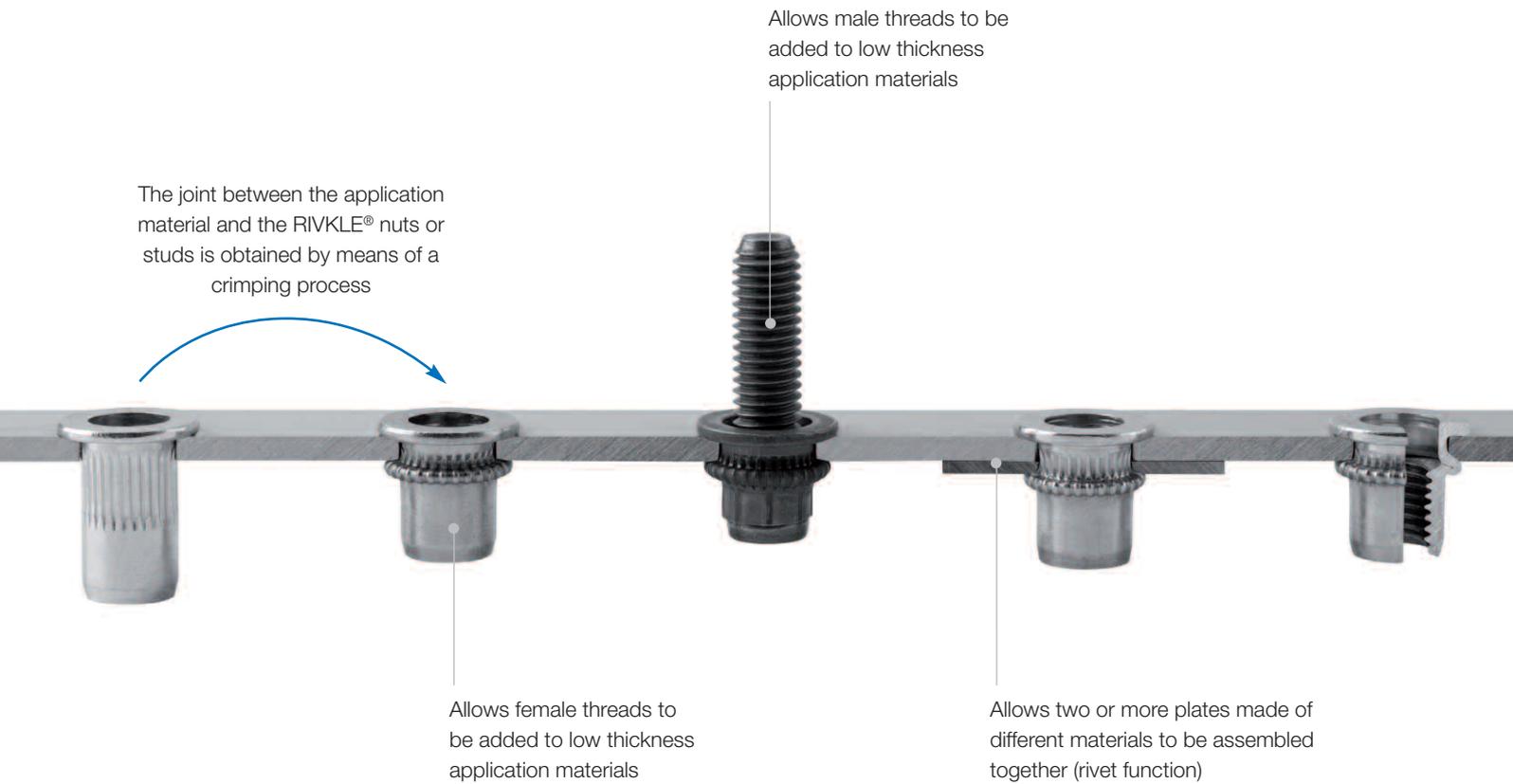
Simplify your design and integrate RIVKLE® into many of your applications, as these fasteners can be installed with access on only one side.

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



The RIVKLE® technology

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

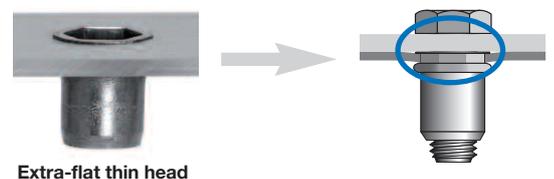


Under normal conditions of use



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.



Extra-flat thin head

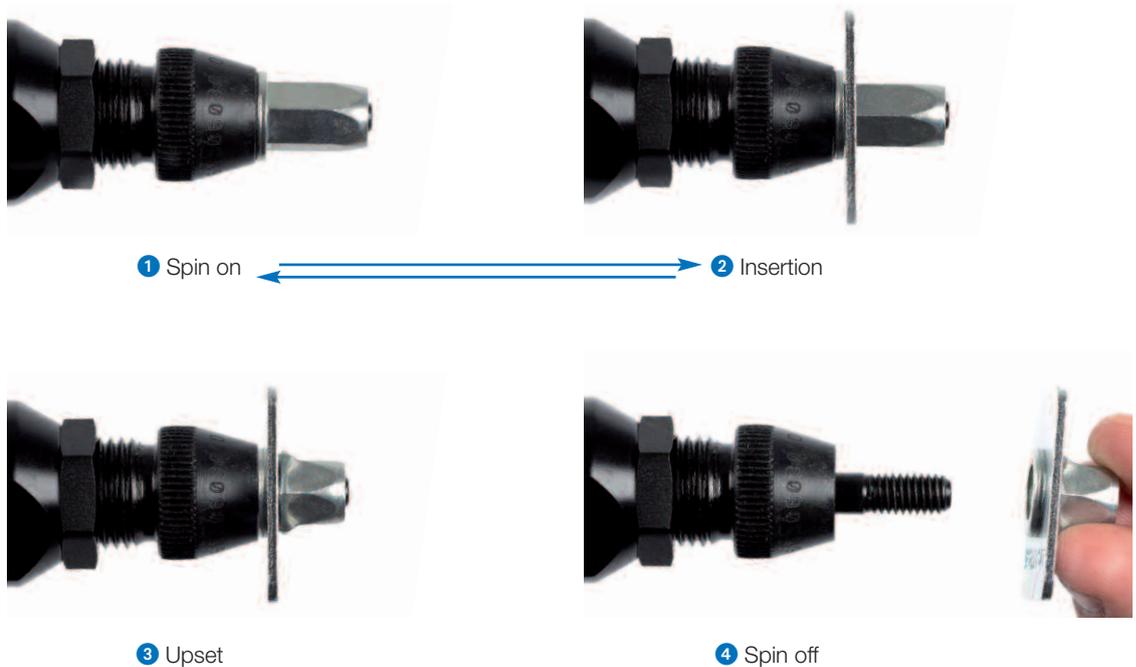
Setting of RIVKLE® fasteners

Pull setting method

The BÖLLHOFF setting tools use the pull setting method to set the RIVKLE® assembly components.

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



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 RIVKLE®.



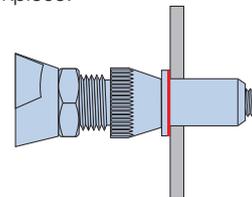
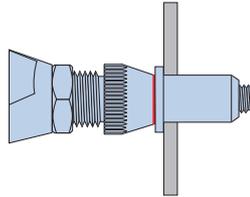
Advantages

- 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 RIVKLE® in the event of a 2nd setting cycle.
- Increased mandrel life.

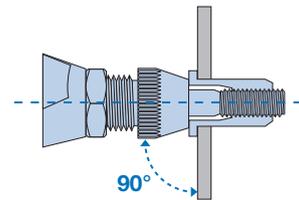
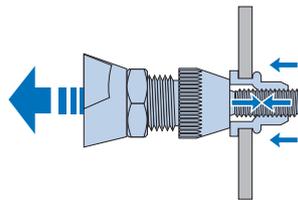
Setting parameters

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

1. Make sure the RIVKLE® fastener touches the anvil: this means that "spin on" has been performed until the head of the RIVKLE® fastener touches the anvil.
2. Make sure the RIVKLE® fastener touches the workpiece: check that the rear face of the head of the RIVKLE® 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 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 RIVKLE® 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 & RIVKLE® 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 | 20,0 | 10,0 |
| M10 | 21,0 | 22,0 | - | 12,0 |
| M12 | 23,0 | 38,0 | - | 15,0 |
| M14 | 50,0 | - | - | - |

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

RIVKLE® – 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-ALMg2,5 | AW-5052 | 5052 |
| | EN AW-AI Mg1SiBi/EN | AW-60604 | A/6064 |

*RIVKLE® 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.

- RIVKLE® HRT (High Resistance Thread) nuts
- RIVKLE® SFC (Smart For Composite) nuts
- RIVKLE® Seal Ring nuts and studs
- Standard 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.

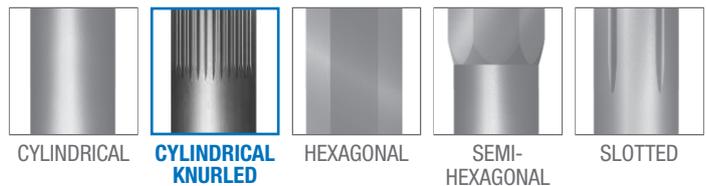
RIVKLE® – Selection of the nut or stud

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

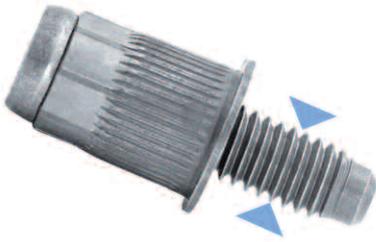
The RIVKLE® blind rivet nuts and studs are identified based on different product features:

| | | |
|----------------------|--------------------------|---|
| BODY | <input type="checkbox"/> | > |
| HEAD | <input type="checkbox"/> | |
| BODY END | <input type="checkbox"/> | |
| MATERIAL | <input type="checkbox"/> | |
| DIAMETER | <input type="checkbox"/> | |
| GRIP THICKNESS | <input type="checkbox"/> | |
| PLATING | <input type="checkbox"/> | |
| ADDITIONAL FUNCTIONS | <input type="checkbox"/> | |

BODY



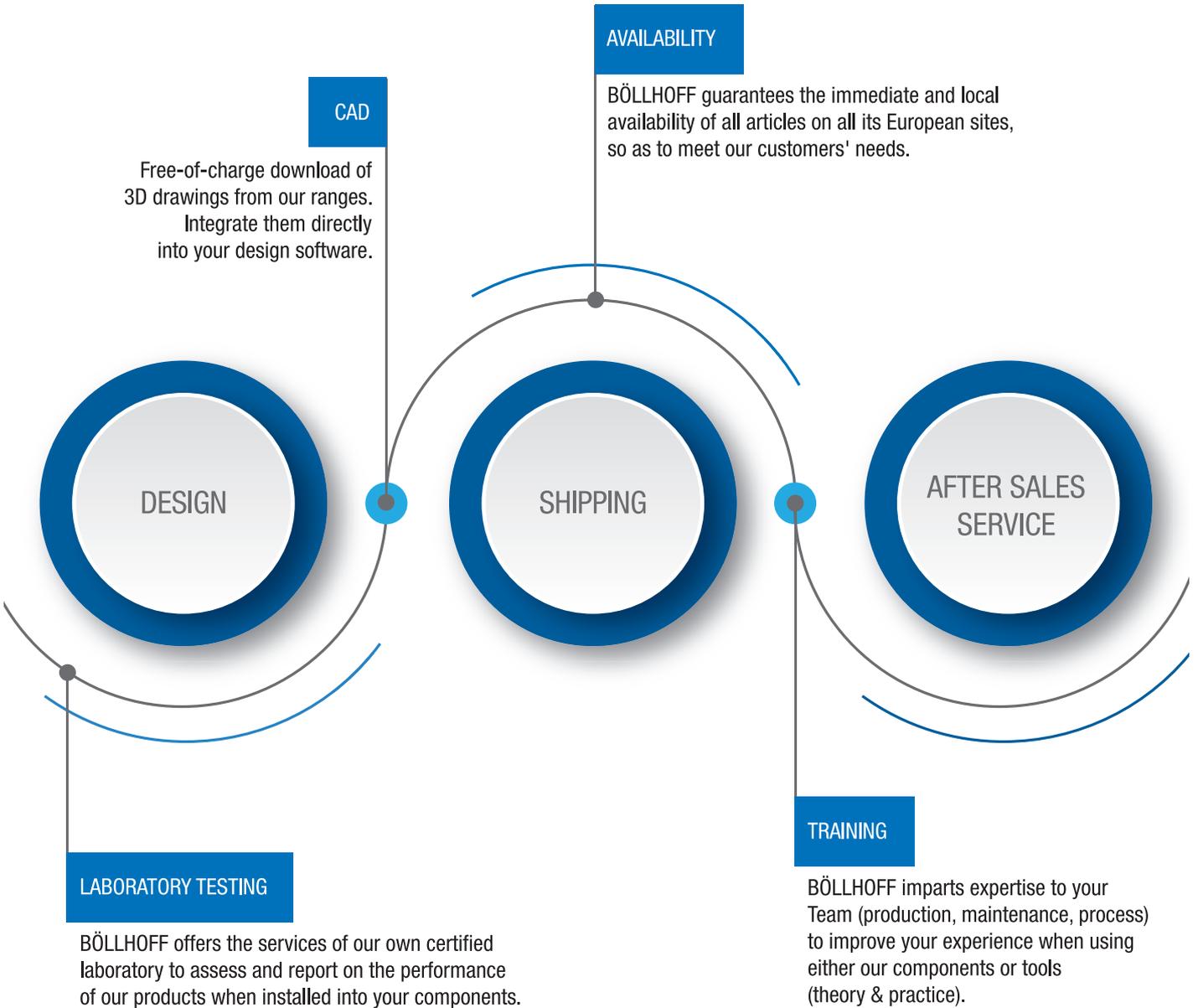
DIAMETER



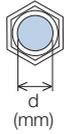
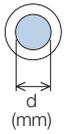
| | | |
|-----|-----|-----------|
| M3 | M4 | M5 |
| M6 | M8 | M10 |
| M12 | M14 | M16 |

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

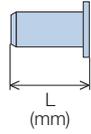




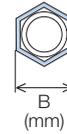
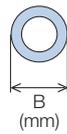
RIVKLE® – Legend



Thread size

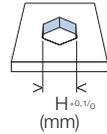


Overall length



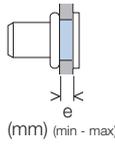
Head diameter

If round -> diameter
If hexagonal -> width across flats



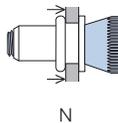
Hole geometry

If round -> diameter
If hexagonal -> width across flats

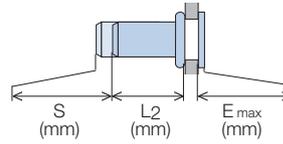


Grip range

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



Setting load



Head projection after setting

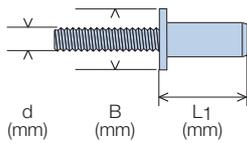
Variable according to the application (setting load, material substrate, etc.)

Blind side projection after installation

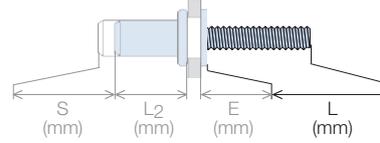
Defines the clearance needed on the blind side (cannot be used for quality control)

Setting stroke

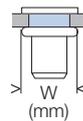
Difference of total length before and after installation



Tip diameter
Head diameter
Shank length



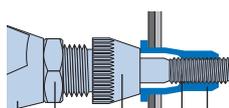
Tip length



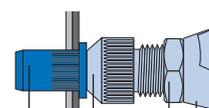
| d (mm) | W (mm) |
|------------|---------|
| M3 | 6,8 mm |
| M4 | 8,6 mm |
| M5 | 10,1 mm |
| M6 | 13,0 mm |
| M8 | 15,0 mm |
| M10 | 18,0 mm |
| M12 | 22,4 mm |

Maximum bulge diameter

RIVKLE® Nut



RIVKLE® Stud



- RIVKLE®
- Mandrel*
- Customers part
- Anvil*
- Counter nut
- Setting tool

*in accordance to chosen RIVKLE®

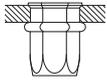
RIVKLE®

THE STANDARD LINE



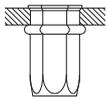
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RIVKLE® – Standard blind rivet nuts - Steel



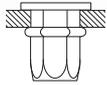
Steel | Thin head | Hexagonal | Open

| 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 | | | 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 - 8,0 | | S=13,5-e | | | 343 41 120 080 | |



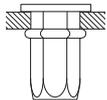
Steel | Thin head | Hexagonal | Closed

| 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 | | | 17,8 | 0,4 |
| 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 | | | 22,0 | 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 | |



Steel | Flat head | Hexagonal | Open

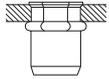
| |  d (mm) |  L (mm) |  B (mm) |  e (mm) (min - max) |  H ^{+0,1/0} (mm) |  S (mm) |  L ₂ (mm) |  E _{max} (mm) | |
|------------|---|---|---|---|---|--|--|--|-----------------------|
| M4 | 9,8 | 9,0 | | 0,5 - 2,0 | 6,0 | S=3,5-e | 5,8 | 1,0 | 233 41 040 020 |
| M5 | 13,7 | 10,0 | | 0,5 - 3,0 | 7,0 | 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 |



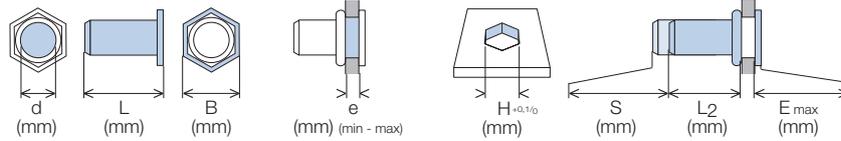
Steel | Flat head | Hexagonal | Closed

| |  d (mm) |  L (mm) |  B (mm) |  e (mm) (min - max) |  H ^{+0,1/0} (mm) |  S (mm) |  L ₂ (mm) |  E _{max} (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 |
| | 25,0 | | | 3,0 - 5,5 | | S=7,5-e | | | 233 51 060 055 |
| 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 |

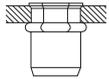
RIVKLE® – Standard blind rivet nuts - Steel



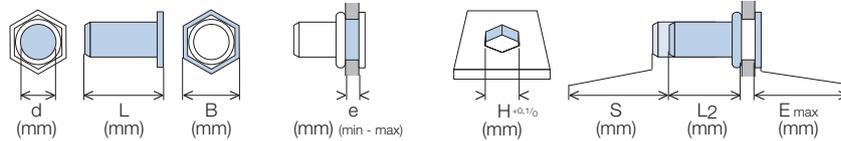
Steel | Thin head | Semi-Hexagonal | Open



| | | | | | | | | |
|-----------|-------|------|-----------|------|---------|------|-----|-----------------------|
| 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 |

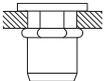


Steel | Thin head | Semi-Hexagonal | Open

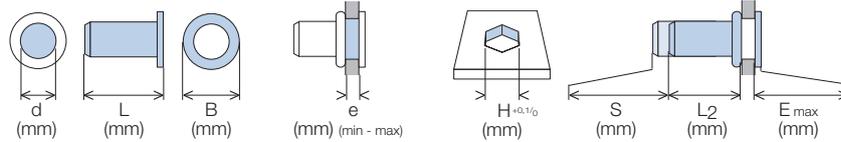


| | | | | | | | | |
|-----------|-------|-------|-----------|------|---------|------|------|-----------------------|
| M4 | 10,3 | 6,9 | 0,5 - 2,0 | 6,4 | S=3,0-e | 6,8 | 0,5 | 343 21 040 020 |
| M5 | 11,45 | 8,1 | 0,5 - 3,0 | 7,3 | S=4,8-e | 7,0 | 0,45 | 343 21 050 030 |
| M6 | 14,35 | 10,6 | 0,7 -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



| | | | | | | | | |
|-----------|-------|------|-----------|------|---------|------|-----|-----------------------|
| 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 |

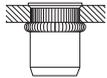
RIVKLE® - Other concepts

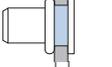


RIVKLE® Star Head

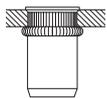
Flush finish with anti-turn - Ideal for wood

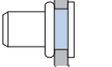
Steel | Thin head | Knurled | Open



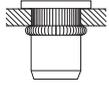
| |  d (mm) |  L (mm) |  B (mm) |  e (mm) (min - max) |  Ø ^{+0,1/0} (mm) |  S (mm) |  L ₂ (mm) |  E _{max} (mm) | |
|------------|---|---|---|---|---|--|--|--|--|
| M3 | 9,0 | 5,7 | 0,5 - 2,0 | 5,0 | S=3,6-e | 5,5 | 0,4 | 343 67 030 020 | |
| | 9,8 | 5,75 | 1,5 - 3,0 | 5,0 | S=3,6-e | 5,7 | 0,4 | 343 67 030 030 | |
| M4 | 10,7 | 6,6 | 0,5 - 3,0 | 6,0 | S=4,9-e | 5,8 | 0,3 | 343 67 040 230 | |
| | 11,9 | 6,6 | 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 | 7,0 | 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 | 9,0 | S=5,1-e | | 0,4 | 343 67 060 230 | |
| | 15,3 | 9,6 | 3,0 - 4,5 | 9,0 | S=6,6-e | 8,5 | 0,3 | 343 67 060 045 | |
| | 16,9 | 9,6 | 4,5 - 6,0 | 9,0 | S=8,2-e | | 0,3 | 343 67 060 060 | |
| M8 | 17,25 | 12,0 | 0,5 - 3,0 | 11,0 | S=6,0-e | 11,1 | 0,4 | 343 67 080 230 | |
| | 18,9 | 11,8 | 3,0 - 4,5 | 11,0 | S=6,7-e | 11,8 | 0,4 | 343 67 080 045 | |
| | 20,5 | 11,8 | 4,5 - 6,0 | 11,0 | S=8,3-e | | 0,4 | 343 67 080 060 | |
| M10 | 20,75 | 14,0 | 0,7 - 3,5 | 13,0 | S=6,5-e | | 0,5 | 343 67 100 235 | |
| | 21,9 | 13,8 | 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 | 13,0 | S=9,1-e | | 0,4 | 343 67 100 060 | |
| M12 | 25,8 | 17,0 | 3,0 - 4,5 | 16,0 | S=7,5-e | 17,8 | 0,5 | 343 67 120 045 | |
| | 27,4 | 17,0 | 4,5 - 6,0 | 16,0 | S=9,1-e | | 0,5 | 343 67 120 060 | |

Steel | Thin head | Knurled | Closed

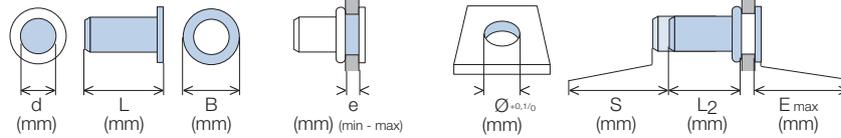


| |  d (mm) |  L (mm) |  B (mm) |  e (mm) (min - max) |  Ø ^{+0,1/0} (mm) |  S (mm) |  L ₂ (mm) |  E _{max} (mm) | |
|------------|---|---|---|---|---|--|--|--|--|
| M3 | 12,6 | 5,8 | 0,7 - 1,5 | 5,0 | S=2,0-e | 10,2 | 0,3 | 343 77 030 015 | |
| | 14,2 | 5,8 | 1,5 - 3,0 | 5,0 | S=3,6-e | | 0,3 | 343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

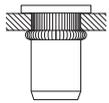
RIVKLE® – Standard blind rivet nuts - Steel



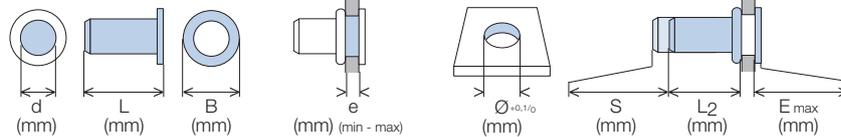
Steel | Flat head | Knurled | Open



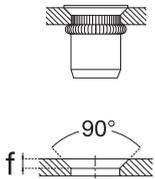
| | d (mm) | L (mm) | B (mm) | e (mm) (min - max) | $\varnothing^{+0,1/0}$ (mm) | S (mm) | L ₂ (mm) | E _{max} (mm) | |
|------------|-----------|-----------|-----------|--------------------------|--------------------------------|-----------|------------------------|--------------------------|-----------------------|
| M3 | 8,8 | | | 0,50 - 1,00 | | S=2,0-e | 5,8 | | 233 07 030 100 |
| | 9,6 | | | 1,00 - 1,75 | 5,0 | S=2,8-e | 6,0 | 1,0 | 233 07 030 175 |
| | 10,4 | | 7,0 | 1,75 - 2,50 | | S=3,4-e | | | 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 | 0,50 - 3,00 | 6,0 | S=4,3-e | 5,8 | 1,0 | 233 07 040 230 |
| | 11,6 | | 8,0 | 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 | 0,70 - 3,50 | | S=6,1-e | 13,9 | | 233 07 100 235 |
| | 24,0 | | | 3,00 - 4,50 | 13,0 | S=7,4-e | 14,6 | 2,0 | 233 07 100 450 |
| | 25,6 | | 16,0 | 4,50 - 6,00 | | S=8,9-e | 14,5 | | 233 07 100 600 |



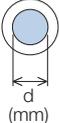
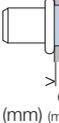
Steel | Flat head | Knurled | Closed

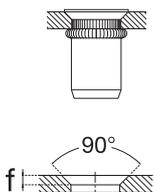


| | d (mm) | L (mm) | B (mm) | e (mm) (min - max) | $\varnothing^{+0,1/0}$ (mm) | S (mm) | L ₂ (mm) | E _{max} (mm) | |
|------------|-----------|-----------|-----------|--------------------------|--------------------------------|-----------|------------------------|--------------------------|-----------------------|
| M4 | 15,0 | | | 1,00 - 1,75 | | S=3,0-e | 11,0 | | 233 27 040 175 |
| | 15,8 | | 8,0 | 1,75 - 2,50 | 6,0 | S=3,5-e | 11,3 | 1,0 | 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 |
| M6 | 21,0 | | 13,0 | 3,00 - 4,00 | 9,1 | S=5,3-e | 14,7 | 1,5 | 233 27 050 400 |
| | 21,5 | | | 0,50 - 3,00 | 9,0 | S=4,5-e | 15,0 | | 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 |

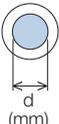
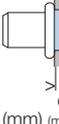
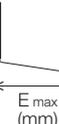


Steel | Countersunk head | Knurled | Open

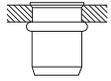
| |  |  |  |  |  |  |  |  |  |  |
|------------|---|---|---|---|---|--|---|---|---|---|
| M3 | 8,8 | 6,6 | 1,00 - 1,75 | 5,0 | 1,0 | S=2,8-e | 5,9 | 0,1 | 233 17 030 175 | |
| | 9,6 | 7,0 | 1,75 - 2,50 | | 1,2 | S=3,5-e | 6,0 | | 233 17 030 250 | |
| | 10,4 | | 2,50 - 3,25 | | | S=4,3-e | | | 233 17 030 325 | |
| M4 | 9,2 | 8,0 | 1,00 - 1,75 | 6,0 | 1,0 | S=2,8-e | 6,3 | 0,1 | 233 17 040 175 | |
| | 10,0 | | 1,75 - 2,50 | | 1,2 | S=3,6-e | | | 233 17 040 250 | |
| | 10,8 | | 2,50 - 3,25 | | | S=4,3-e | | | 233 17 040 325 | |
| M5 | 11,6 | 8,5 | 1,00 - 2,00 | 7,0 | 1,0 | S=3,8-e | 8,5 | 0,1 | 233 17 050 200 | |
| | 12,7 | | 1,50 - 3,00 | | 1,4 | S=3,8-e | | | 233 17 050 300 | |
| | 13,8 | | 3,00 - 4,00 | | | S=5,2-e | | | 233 17 050 400 | |
| | 14,9 | | 4,00 - 5,00 | | | S=6,3-e | | | 233 17 050 500 | |
| M6 | 15,0 | 10,6 | 1,50 - 3,00 | 9,0 | 1,2 | S=5,0-e | 10,0 | 0,1 | 233 17 060 300 | |
| | 16,6 | | 3,00 - 4,50 | | 1,5 | S=6,5-e | | | 233 17 060 450 | |
| | 18,2 | | 4,50 - 6,00 | | | S=8,0-e | | | 233 17 060 600 | |
| | 19,8 | | 6,00 - 7,50 | | | S=9,4-e | | | 233 17 060 750 | |
| M8 | 16,5 | 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 | 3,00 - 4,50 | | 2,0 | S=7,5-e | | | 233 17 080 450 | |
| | 19,7 | 14,0 | 4,50 - 6,00 | | | S=8,6-e | | | 233 17 080 600 | |
| M10 | 20,4 | 15,0 | 1,50 - 3,00 | 13,0 | 1,4 | S=5,7-e | 14,6 | 0,1 | 233 17 100 300 | |
| | 22,0 | | 3,00 - 4,50 | | 2,0 | S=7,3-e | | | 233 17 100 450 | |
| | 23,6 | 16,0 | 4,50 - 6,00 | | | S=8,9-e | | | 233 17 100 600 | |



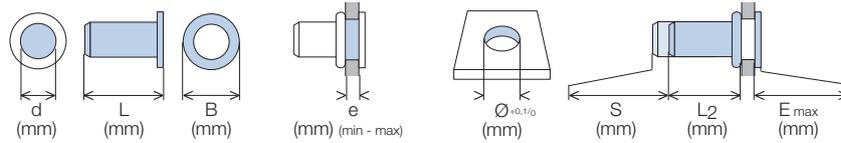
Steel | Countersunk head | Knurled | Closed

| |  |  |  |  |  |  |  |  |  |  |
|------------|---|---|---|---|---|--|---|---|---|---|
| M4 | 14,2 | 8,0 | 1,00 - 1,75 | 6,0 | 1,0 | S=2,8-e | 11,3 | 0,1 | 233 37 040 175 | |
| | 15,0 | | 1,75 - 2,50 | | 1,2 | S=3,6-e | | | 233 37 040 250 | |
| | 15,8 | | 2,50 - 3,25 | | | S=4,7-e | | | 233 37 040 325 | |
| M5 | 17,7 | 8,5 | 1,00 - 2,00 | 7,0 | 1,0 | S=3,0-e | 14,6 | 0,1 | 233 37 050 200 | |
| | 18,8 | | 2,00 - 3,00 | | 1,4 | S=4,1-e | | | 233 37 050 300 | |
| | 21,0 | | 3,00 - 5,00 | | 1,4 | S=6,3-e | | | 233 37 050 500 | |
| M6 | 22,0 | 11,0 | 1,50 - 3,00 | 9,0 | 1,2 | S=4,6-e | 17,3 | 0,1 | 233 37 060 300 | |
| | 23,6 | | 3,00 - 4,50 | | 1,5 | S=6,2-e | | | 233 37 060 450 | |
| | 25,2 | | 4,50 - 6,00 | | | S=7,8-e | | | 233 37 060 600 | |
| | 26,8 | | 6,00 - 7,50 | | | S=9,4-e | | | 233 37 060 750 | |
| M8 | 24,8 | 12,6 | 1,50 - 3,00 | 11,0 | 1,4 | S=6,0-e | 19,8 | 0,1 | 233 37 080 300 | |
| | 26,4 | 14,0 | 3,00 - 4,50 | | 2,0 | S=7,0-e | | | 233 37 080 450 | |
| | 28,0 | | 4,50 - 6,00 | | | S=8,6-e | | | 233 37 080 600 | |
| | 29,6 | | 6,00 - 7,50 | | | S=10,2-e | | | 233 37 080 750 | |
| M10 | 30,3 | 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 | 3,00 - 4,50 | | 2,0 | S=5,3-e | | | 233 37 100 450 | |
| | 33,5 | | 4,50 - 6,00 | | | S=8,9-e | | | 233 37 100 600 | |

RIVKLE® – Standard blind rivet nuts - Steel



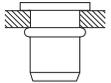
Steel | Thin head | Plain | Open



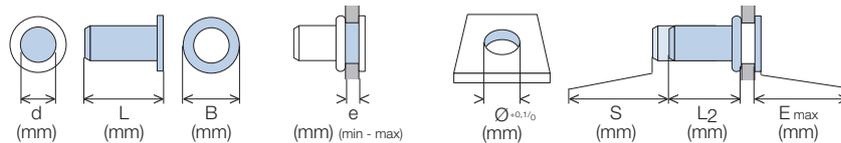
| | d (mm) | L (mm) | B (mm) | e (mm) (min - max) | Ø ^{+0,1/0} (mm) | S (mm) | L ₂ (mm) | E _{max} (mm) | |
|-----------|--------|--------|--------|--------------------|--------------------------|---------|---------------------|-----------------------|-----------------------|
| M3 | 8,4 | 8,4 | 5,2 | 0,5 - 1,5 | 4,7 | S=2,8-e | 5,5 | 0,4 | 343 01 030 150 |
| M4 | 10,2 | 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 | 11,25 | 7,6 | 0,5 - 3,0 | 7,1 | S=4,5-e | 7,3 | 0,6 | 343 01 050 150 |
| M6 | 14,95 | 14,95 | 10,35 | 0,7 - 3,0 | 9,5 | S=5,5-e | 9,3 | 0,6 | 343 01 060 200 |
| M8 | 16,6 | 16,6 | 11,5 | 0,8 - 4,5 | 10,5 | S=7,5-e | 9,6 | 0,7 | 343 01 080 450 |



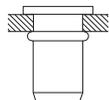
For holes with imperial dimensions



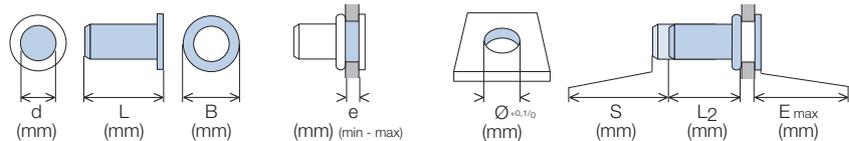
Steel | Flat head | Plain | Open



| | d (mm) | L (mm) | B (mm) | e (mm) (min - max) | Ø ^{+0,1/0} (mm) | S (mm) | L ₂ (mm) | E _{max} (mm) | |
|------------|--------|--------|--------|--------------------|--------------------------|----------|---------------------|-----------------------|-----------------------|
| M3 | 8,3 | 7,5 | 7,5 | 0,5 - 1,0 | 5,0 | S=2,1-e | 5,2 | 1,0 | 233 01 030 010 |
| | 8,7 | | | 1,0 - 1,5 | | S=3,2-e | 4,8 | | 233 01 030 015 |
| | 9,7 | | | 1,5 - 3,0 | | S=4,2-e | 4,4 | | 233 01 030 030 |
| | 11,2 | | | 3,0 - 4,5 | | S=5,8-e | 4,7 | | 233 01 030 045 |
| | 12,9 | | | 4,5 - 6,0 | | S=7,2-e | 4,7 | | 233 01 030 060 |
| M4 | 9,7 | 9,0 | 9,0 | 0,5 - 1,0 | 6,0 | S=2,6-e | 5,4 | 1,0 | 233 01 040 010 |
| | 10,2 | | | 1,0 - 2,0 | | S=3,6-e | 5,6 | | 233 01 040 020 |
| | 11,8 | | | 2,0 - 4,0 | | S=5,6-e | 5,3 | | 233 01 040 040 |
| | 13,8 | | | 4,0 - 6,0 | | S=7,5-e | 5,3 | | 233 01 040 060 |
| M5 | 13,75 | 10,0 | 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 | 9,1 | | 233 01 050 055 |
| | 19,8 | | | 5,5 - 8,0 | | S=9,7-e | 10,0 | | 233 01 050 080 |
| M6 | 15,8 | 13,0 | 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 | 10,0 | | 233 01 060 055 |
| | 21,7 | | | 5,5 - 8,0 | | S=10,2-e | 11,0 | | 233 01 060 080 |
| M8 | 17,8 | 16,0 | 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 | 11,7 | | 233 01 080 055 |
| | 23,8 | | | 5,5 - 8,0 | | S=10,6-e | 11,8 | | 233 01 080 080 |
| | 26,8 | | | 8,0 - 10,5 | | S=13,5-e | 15,0 | | 233 01 080 105 |
| M10 | 22,75 | 19,0 | 19,0 | 1,0 - 3,5 | 13,0 | S=6,5-e | 17,1 | 2,0 | 233 01 100 035 |
| | 25,75 | | | 3,5 - 6,0 | | S=9,0-e | 17,5 | | 233 01 100 060 |
| | 27,75 | | | 6,0 - 8,5 | | S=11,5-e | 23,2 | | 233 01 100 085 |
| | 31,8 | | | 8,5 - 11,0 | | S=14,0-e | | | 233 01 100 110 |
| M12 | 26,7 | 23,0 | 23,0 | 1,0 - 4,0 | 16,0 | S=7,7-e | 17,5 | 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 | 24,0 | 4,5 - 6,0 | 18,0 | S=9,8-e | 23,2 | 2,5 | 233 01 140 600 |



Steel | Flat head | Plain | Closed



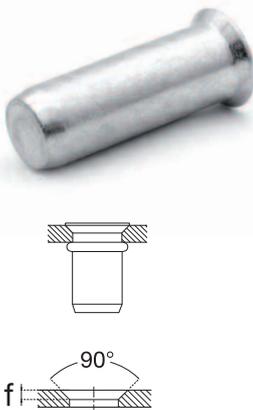
| | d (mm) | L (mm) | B (mm) | e (mm) (min - max) | Ø ^{+0,1/0} (mm) | S (mm) | L ₂ (mm) | E ^{max} (mm) | |
|------------|-----------|-----------|-----------|--------------------------|-----------------------------|-----------|------------------------|--------------------------|-----------------------|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

RIVKLE® – Standard blind rivet nuts - Steel



Steel | 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 | 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 | | 1,3 | S=4,9-e | 4,7 | 1,4 | 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 | 7,2 | 2,0 - 3,0 | | 1,3 | S=4,7-e | | | 233 11 040 030 |
| | 11,8 | 11,8 | 7,2 | 3,0 - 5,0 | | 1,3 | S=6,6-e | 5,3 | 233 11 040 050 | |
| | 13,8 | 13,8 | 7,2 | 5,0 - 7,0 | | 1,3 | 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 | 9,2 | 4,0 - 6,5 | | 1,5 | S=8,1-e | 8,6 | | 233 11 050 065 |
| | 19,8 | 19,8 | 9,2 | 6,5 - 9,0 | | 1,5 | S=10,7-e | 9,0 | | 233 11 050 090 |
| M6 | 17,3 | 17,3 | 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 | | 1,5 | S=8,7-e | | | 233 11 060 065 |
| | 21,8 | 21,8 | 11,3 | 6,5 - 9,0 | | 1,5 | S=10,4-e | | | 11,4 |
| 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 | | 1,5 | S=9,5-e | | | 233 11 080 065 |
| | 23,75 | 23,75 | 13,1 | 6,5 - 9,0 | | 1,5 | 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 | | 1,5 | S=8,4-e | | | 233 11 100 065 |
| | 28,0 | 28,0 | 15,1 | 6,5 - 9,0 | | 1,5 | S=11,5-e | | | 14,8 |
| 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 | | 1,7 | S=9,7-e | | | 233 11 120 075 |
| | 31,8 | 31,8 | 19,0 | 7,5 - 10,5 | | 1,7 | S=13,7-e | | | 18,0 |



Steel | Countersunk head | Plain | Closed

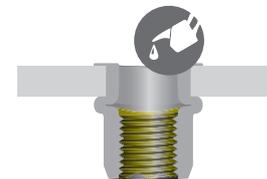
| | d (mm) | L (mm) | B (mm) | e (mm) (min - max) | $\varnothing^{+0,1/0}$ (mm) | f (mm) | S (mm) | L ₂ (mm) | E _{max} (mm) | |
|------------|-----------|-----------|-----------|-----------------------|--------------------------------|-----------|-----------|------------------------|--------------------------|-----------------------|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

RIVKLE® – 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.

RIVKLE® Stainless steel - Lubricated range

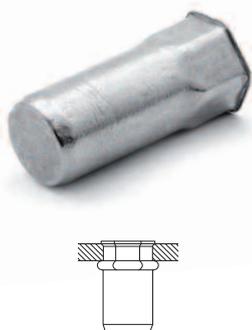
The lubricated range is based on standard products on which a lubricant has been applied to limit galling issues. Customers don't need anymore to add manually any lubricant product (paste, spray, oil...).



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 | 9,5 | 5,8 | 1,0 - 2,3 | 5,0 | S=3,8-e | 4,5 | 0,4 | 343 98 030 590 | |
| | 2,3 - 3,2 | | | S=4,7-e | | 343 98 030 591 | | | | |
| M4 | 10,4 | 11,7 | 6,7 | 0,5 - 2,0 | 6,0 | S=3,1-e | 6,8 | 0,4 | 343 48 040 020* | 343 49 040 506* |
| | 0,8 - 3,0 | | | S=4,2-e | | 343 48 040 030* | | | 343 49 040 507* | |
| | 3,0 - 4,2 | | | S=5,8-e | | 343 98 040 629* | | | | |
| M5 | 12,0 | 12,8 | 7,8 | 0,5 - 3,0 | 7,0 | S=4,4-e | 7,0 | 0,45 | 343 48 050 020* | 343 49 050 538* |
| | 3,0 - 4,5 | | | S=6,5-e | | 6,5 | | 0,4 | 343 98 050 629 | |
| M6 | 14,5 | 14,3 | 10,2 | 0,5 - 3,0 | 9,0 | S=4,2-e | 9,7 | 0,45 | 343 48 060 025 | |
| | 0,3 | | | | | | | 343 98 060 624* | 343 98 060 637* | |
| | 0,45 | | | | | | | 343 48 060 055* | | |
| | 0,3 | | | | | | | 343 98 060 630 | | |
| M8 | 15,8 | 17,6 | 12,5 | 0,5 - 3,0 | 11,0 | S=4,7-e | 10,4 | 0,5 | 343 48 080 030* | 343 98 080 631* |
| | 1,5 - 5,0 | | | S=7,0-e | | 10,2 | | 0,3 | 343 98 080 625* | |
| M10 | 19,4 | 21,5 | 14,2 | 1,0 - 3,5 | 13,0 | S=7,0-e | 12,0 | 0,7 | 343 48 100 035 | 343 49 100 501 |
| | 2,5 - 5,5 | | | S=9,1-e | | 12,5 | | 0,65 | 343 98 100 691 | |
| M12 | 23,5 | 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

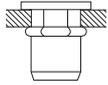


Stainless steel | Thin head | Semi-hexagonal | Closed

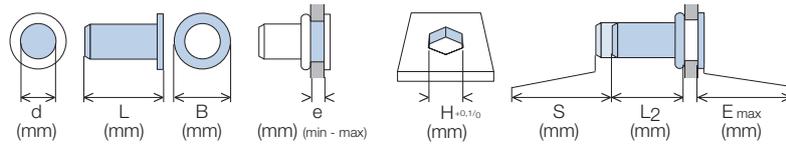
| | d (mm) | L (mm) | B (mm) | e (mm) (min - max) | H ^{+0,1/0} (mm) | S (mm) | L ₂ (mm) | E _{max} (mm) | | |
|------------|-----------|-----------|-----------|--------------------------|-----------------------------|-----------------------|------------------------|--------------------------|------------------------|------------------------|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

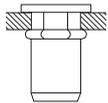
RIVKLE® – Standard blind rivet nuts - Stainless steel



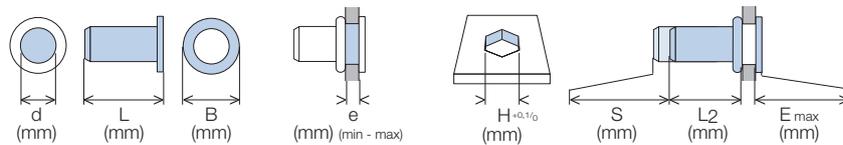
Stainless steel | Flat head | Semi-hexagonal | Open



| | d (mm) | L (mm) | B (mm) | e (mm) (min - max) | H ^{+0,10} (mm) | S (mm) | L ₂ (mm) | E _{max} (mm) | | |
|------------|-----------|-----------|-----------|--------------------------|----------------------------|-----------|------------------------|--------------------------|-----------------------|-----------------------|
| M3 | 9,0 | 9,7 | 7,0 | 1,0 - 2,3 | 5,0 | S=3,1-e | 5,0 | 0,7 | 233 48 030 023 | |
| | | | | 2,3 - 3,0 | | S=4,5-e | | | 233 48 030 030 | |
| M4 | 12,0 | 12,1 | 8,0 | 0,5 - 2,0 | 6,0 | S=3,5-e | 5,4 | 1,0 | 233 48 040 020 | |
| | | | | 2,0 - 3,5 | | S=5,5-e | | | 6,0 | 0,7 |
| M5 | 12,5 | 14,0 | 10,0 | 0,5 - 3,0 | 7,0 | S=4,7-e | 8,0 | 1,0 | 233 48 050 030 | 233 49 050 531 |
| | | | | 2,0 - 4,0 | | S=4,8-e | | | 7,5 | 233 48 050 040 |
| M6 | 15,8 | 16,0 | 12,0 | 0,5 - 3,0 | 9,0 | S=4,0-e | 9,7 | 1,5 | 233 48 060 001 | 233 49 060 509 |
| | | | | 3,0 - 4,5 | | S=7,1-e | | | 9,0 | 1,4 |
| M8 | 16,5 | 18,5 | 14,0 | 0,5 - 3,0 | 11,0 | S=5,4-e | 9,6 | 1,5 | 233 48 080 001 | 233 49 080 546 |
| | | | | 3,0 - 5,5 | | S=7,4-e | | | | |
| M10 | 21,0 | 22,7 | 17,0 | 1,0 - 3,5 | 13,1 | S=6,5-e | 13,7 | 2,0 | 233 48 100 035 | |
| | | | | 3,5 - 5,5 | | S=9,4-e | | | 12,0 | 1,8 |
| 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

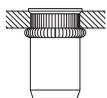


| | d (mm) | L (mm) | B (mm) | e (mm) (min - max) | H ^{+0,10} (mm) | S (mm) | L ₂ (mm) | E _{max} (mm) | | |
|------------|-----------|-----------|-----------|--------------------------|----------------------------|-----------|------------------------|--------------------------|-----------------------|-----------------------|
| M3 | 12,7 | 14,3 | 7,0 | 1,1 - 2,3 | 5,0 | S=3,8-e | 9,2 | 0,7 | 233 58 030 023 | |
| | | | | 2,3 - 3,0 | | S=4,5-e | | | 9,5 | 233 58 030 030 |
| M4 | 15,5 | 17,5 | 8,0 | 0,5 - 2,0 | 6,0 | S=3,8-e | 11,5 | 0,8 | 233 58 040 020 | |
| | | | | 2,0 - 3,5 | | S=5,6-e | | | | 233 58 040 040 |
| M5 | 19,6 | 20,0 | 9,0 | 0,5 - 3,0 | 7,0 | S=5,0-e | 12,5 | 1,0 | 233 58 050 001 | |
| | | | | 2,0 - 4,0 | | S=6,1-e | | | 13,5 | 0,8 |
| M6 | 22,3 | 23,7 | 12,0 | 0,5 - 3,0 | 9,1 | S=4,0-e | 15,5 | 1,5 | 233 58 060 030 | |
| | | | | 3,0 - 4,5 | | S=7,1-e | | | | 1,4 |
| M8 | 26,1 | 27,0 | 14,0 | 0,8 - 3,0 | 11,0 | S=5,3-e | 19,5 | 1,5 | 233 58 080 001 | |
| | | | | 3,0 - 5,5 | | S=8,2-e | | | 18,0 | 1,4 |
| M10 | 31,5 | 33,5 | 16,0 | 1,0 - 3,5 | 13,0 | S=7,4-e | 27,5 | 1,8 | 233 58 100 035 | |
| | | | | 3,5 - 5,5 | | S=9,4-e | | | | |
| M12 | 35,0 | | 20,0 | 1,0 - 4,5 | 16,0 | S=8,5-e | 29,5 | 1,8 | 233 58 120 045 | |



Stainless steel | Thin head | Knurled | Open

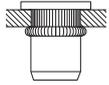
| | d (mm) | L (mm) | B (mm) | e (mm) (min - max) | $\varnothing^{+0.1/0}$ (mm) | S (mm) | L ₂ (mm) | E _{max} (mm) | |
|------------|-----------|-----------|-----------|-----------------------|--------------------------------|-----------|------------------------|--------------------------|-----------------------|
| M3 | 8,7 | 6,0 | 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 | 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 | | | 343 66 040 042 |
| M5 | 12,3 | 8,0 | 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 | | | 343 66 050 045 |
| M6 | 14,5 | 10,0 | 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 | | | 343 66 060 055 |
| | 17,0 | | | 4,5 - 6,0 | | S=7,9-e | | | 343 66 060 060 |
| M8 | 16,1 | 12,0 | 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 | | | 343 66 080 255 |
| | 19,1 | | | 4,5 - 6,0 | | S=7,9-e | | | 343 66 080 060 |
| M10 | 18,3 | 14,0 | 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 | 17,0 | 0,8 - 1,5 | 16,0 | S=3,8-e | 17,2 | 0,4 | 343 66 120 015 |
| | 23,1 | | | 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 |



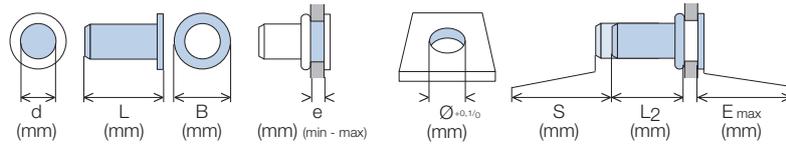
Stainless steel | Thin head | Knurled | Closed

| | d (mm) | L (mm) | B (mm) | e (mm) (min - max) | $\varnothing^{+0.1/0}$ (mm) | S (mm) | L ₂ (mm) | E _{max} (mm) | |
|------------|-----------|-----------|-----------|-----------------------|--------------------------------|-----------|------------------------|--------------------------|-----------------------|
| M3 | 13,0 | 6,0 | 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 | 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 | | | 343 76 040 035 |
| M5 | 17,5 | 8,0 | 8,0 | 2,5 - 4,2 | 7,0 | S=4,7-e | 11,9 | 0,3 | 343 76 040 042 |
| | 17,8 | | | 0,8 - 2,0 | | S=3,2-e | | | 343 76 050 020 |
| | 18,9 | | | 2,0 - 3,0 | | S=4,3-e | | | 343 76 050 030 |
| M6 | 20,5 | 10,0 | 10,0 | 3,0 - 4,5 | 9,0 | S=5,4-e | 14,2 | 0,3 | 343 76 050 045 |
| | 17,3 | | | 0,8 - 1,5 | | S=3,1-e | | | 343 76 060 015 |
| | 18,8 | | | 1,5 - 3,0 | | S=4,7-e | | | 343 76 060 030 |
| | 20,4 | | | 3,0 - 4,5 | | S=6,3-e | | | 343 76 060 045 |
| M8 | 22,0 | 12,0 | 12,0 | 4,5 - 6,0 | 11,0 | S=7,9-e | 13,6 | 0,4 | 343 76 060 060 |
| | 20,3 | | | 0,8 - 1,5 | | S=3,1-e | | | 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 |
| M10 | 25,1 | 14,0 | 14,0 | 4,5 - 6,0 | 13,0 | S=7,9-e | 16,7 | 0,4 | 343 76 080 060 |
| | 26,3 | | | 0,8 - 1,5 | | S=3,9-e | | | 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 |
| M12 | 31,1 | 17,0 | 17,0 | 4,5 - 6,0 | 16,0 | S=8,7-e | 21,9 | 0,4 | 343 76 100 060 |
| | 30,5 | | | 0,8 - 1,5 | | S=3,8-e | | | 343 76 120 015 |
| | 32,1 | | | 1,5 - 3,0 | | S=5,4-e | | | 343 76 120 030 |
| | 33,7 | | | 3,0 - 4,5 | | S=7,0-e | | | 343 76 120 045 |
| | 35,3 | 17,5 | 17,5 | 4,5 - 6,0 | | S=8,6-e | 26,2 | 0,4 | 343 76 120 060 |

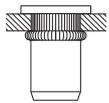
RIVKLE® – Standard blind rivet nuts - Stainless steel



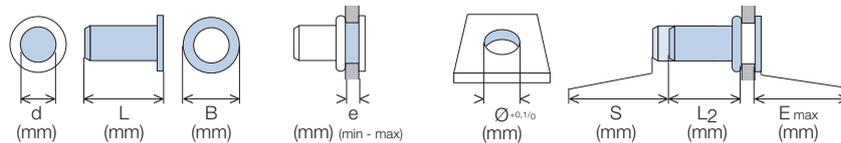
Stainless steel | Flat head | Knurled | Open



| | d (mm) | L (mm) | B (mm) | e (mm) (min - max) | Ø ^{+0,10} (mm) | S (mm) | L ₂ (mm) | E max (mm) | |
|------------|-----------|--------|--------|--------------------|-------------------------|---|---------------------|------------|---|
| M3 | 9,3 | 10,4 | 7,0 | 0,7 - 1,5 | 5,0 | S=2,4-e | 5,9 | 1,0 | 233 06 030 015 |
| | 1,5 - 2,5 | | | S=3,5-e | | 233 06 030 025 | | | |
| | 2,0 - 3,2 | | | S=4,4-e | | 233 06 030 032 | | | |
| M4 | 11,9 | 12,4 | 8,0 | 0,7 - 3,0 | 6,0 | S=4,0-e | 6,5 | 1,0 | 233 06 040 230 |
| | 2,5 - 4,2 | | | S=4,7-e | | 233 06 040 042 | | | |
| M5 | 12,7 | 14,9 | 9,0 | 0,7 - 3,3 | 7,0 | S=5,3-e | 7,2 | 1,0 | 233 06 050 233 233 09 050 501 |
| | 3,0 - 4,5 | | | S=5,4-e | | 233 06 050 045 | | | |
| M6 | 15,2 | 18,2 | 12,0 | 0,7 - 3,3 | 9,0 | S=5,7-e | 8,6 | 1,5 | 233 06 060 233 233 09 060 501 |
| | 3,0 - 4,5 | | | S=6,3-e | | 233 06 060 045 | | | |
| M8 | 16,9 | 20,0 | 14,0 | 0,7 - 3,3 | 11,0 | S=7,9-e | 10,6 | 1,5 | 233 06 060 060 |
| | 3,0 - 5,5 | | | S=6,5-e | | 233 06 080 233 233 09 080 501 | | | |
| | 4,5 - 6,0 | | | S=8,5-e | | 233 06 080 255 | | | |
| M10 | 19,8 | 24,6 | 16,0 | 0,8 - 1,5 | 13,0 | S=7,9-e | 13,9 | 2,0 | 233 06 080 060 |
| | 1,5 - 3,0 | | | S=3,9-e | | 233 06 100 015 | | | |
| | 3,0 - 4,5 | | | S=5,5-e | | 233 06 100 030 | | | |
| | 4,5 - 6,0 | | | S=7,1-e | | 233 06 100 045 | | | |
| M12 | 23,0 | 27,8 | 20,0 | 0,8 - 1,5 | 16,0 | S=8,7-e | 17,2 | 2,0 | 233 06 100 060 |
| | 1,5 - 3,0 | | | S=3,8-e | | 233 06 120 015 | | | |
| | 3,0 - 4,5 | | | S=5,4-e | | 233 06 120 030 | | | |
| | 4,5 - 6,0 | | | S=7,0-e | | 233 06 120 045 | | | |
| | | | | | | 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 ^{+0,10} (mm) | S (mm) | L ₂ (mm) | E max (mm) | |
|------------|-----------|--------|--------|--------------------|-------------------------|-----------------------|---------------------|------------|-----------------------|
| M3 | 13,6 | 14,7 | 7,0 | 0,7 - 1,5 | 5,0 | S=2,4-e | 10,2 | 1,0 | 233 26 030 015 |
| | 1,5 - 2,5 | | | S=3,5-e | | 233 26 030 025 | | | |
| | 2,3 - 3,2 | | | S=4,4-e | | 233 26 030 032 | | | |
| M4 | 14,8 | 16,2 | 8,0 | 0,7 - 1,5 | 6,0 | S=2,6-e | 11,2 | 1,0 | 233 26 040 015 |
| | 0,7 - 3,0 | | | S=4,8-e | | 233 26 040 030 | | | |
| | 2,5 - 3,5 | | | S=4,7-e | | 233 26 040 035 | | | |
| M5 | 17,8 | 17,5 | 9,0 | 0,7 - 1,5 | 7,0 | S=5,5-e | 14,0 | 1,0 | 233 26 040 042 |
| | 1,5 - 3,0 | | | S=2,8-e | | 233 26 050 015 | | | |
| | 3,0 - 4,0 | | | S=4,5-e | | 233 26 050 030 | | | |
| M6 | 20,4 | 23,2 | 11,0 | 0,8 - 1,5 | 9,0 | S=5,6-e | 13,8 | 1,5 | 233 26 050 040 |
| | 1,5 - 3,0 | | | S=3,1-e | | 233 26 060 015 | | | |
| | 3,0 - 4,5 | | | S=4,7-e | | 233 26 060 030 | | | |
| M8 | 21,4 | 24,4 | 14,0 | 3,0 - 4,5 | 11,0 | S=6,3-e | 16,6 | 1,5 | 233 26 060 045 |
| | 4,5 - 6,0 | | | S=7,9-e | | 233 26 060 060 | | | |
| | 0,8 - 1,5 | | | S=3,2-e | | 233 26 080 015 | | | |
| M10 | 22,8 | 29,4 | 16,0 | 1,5 - 3,0 | 13,0 | S=4,7-e | 21,9 | 2,0 | 233 26 080 030 |
| | 3,0 - 4,5 | | | S=6,3-e | | 233 26 080 045 | | | |
| | 4,5 - 6,0 | | | S=7,9-e | | 233 26 080 060 | | | |
| | 0,8 - 1,5 | | | S=3,9-e | | 233 26 100 015 | | | |
| M12 | 26,0 | 32,6 | 20,0 | 1,5 - 3,0 | 16,0 | S=5,5-e | 26,2 | 2,0 | 233 26 100 030 |
| | 3,0 - 4,5 | | | S=7,1-e | | 233 26 100 045 | | | |
| | 4,5 - 6,0 | | | S=8,7-e | | 233 26 100 060 | | | |
| | 0,8 - 1,5 | | | S=3,8-e | | 233 26 120 015 | | | |
| | | | | | | S=5,4-e | | | 233 26 120 030 |
| | | | | | | S=7,0-e | | | 233 26 120 045 |
| | | | | | | S=8,6-e | | | 233 26 120 060 |

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 |
| | 11,4 | | | 3,0 - 4,0 | | | S=6,5-e | | | 233 16 040 040 |
| M5 | 11,3 | 9,0 | | 1,5 - 2,0 | 7,0 | 0,9 | S=3,4-e | 7,8 | 0,1 | 233 16 050 020 |
| | 12,3 | | | 2,0 - 3,0 | | | S=4,5-e | | | 233 16 050 030 |
| | 13,4 | | | 3,0 - 4,0 | | | S=5,6-e | | | 233 16 050 040 |
| M6 | 14,3 | 10,6 | | 1,5 - 4,0 | 9,0 | 0,9 | S=4,7-e | 8,6 | 0,1 | 233 16 060 400 |
| | 15,4 | | | 4,0 - 5,0 | | | S=6,9-e | | | 233 16 060 050 |
| | 16,5 | | | 5,0 - 6,0 | | | S=8,0-e | | | 233 16 060 060 |
| M8 | 15,3 | 14,0 | | 1,5 - 3,0 | 11,0 | 1,4 | S=4,7-e | 10,6 | 0,1 | 233 16 080 030 |
| | 16,3 | | | 3,0 - 4,0 | | | S=5,8-e | | | 233 16 080 040 |
| | 17,4 | | | 4,0 - 5,0 | | | S=6,9-e | | | 233 16 080 050 |
| | 18,5 | | | 5,0 - 6,0 | | | S=8,0-e | | | 233 16 080 060 |
| M10 | 19,4 | 16,0 | | 1,5 - 3,0 | 13,0 | 1,4 | S=5,5-e | 13,9 | 0,1 | 233 16 100 030 |
| | 21,0 | | | 3,0 - 4,5 | | | S=7,1-e | | | 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 |
| | 25,8 | | | 4,5 - 6,0 | | | S=8,6-e | | | 233 16 120 060 |

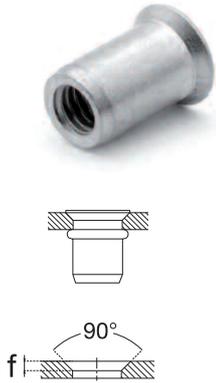
Stainless steel | Countersunk head | Knurled | Closed



| | 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 |
| | 16,4 | | | 3,0 - 4,0 | | | S=6,5-e | | | 233 36 040 040 |
| M5 | 17,3 | 9,0 | | 1,5 - 2,0 | 7,0 | 0,9 | S=3,4-e | 13,9 | 0,1 | 233 36 050 020 |
| | 18,3 | | | 2,0 - 3,0 | | | S=4,5-e | | | 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 |
| | 20,4 | | | 4,0 - 5,0 | | | S=6,9-e | | | 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 |
| | 23,4 | | | 4,0 - 5,0 | | | S=6,9-e | | | 233 36 080 050 |
| | 24,5 | | | 5,0 - 6,0 | | | S=8,0-e | | | 233 36 080 060 |
| M10 | 27,4 | 16,0 | | 1,5 - 3,0 | 13,0 | 1,4 | S=5,5-e | 21,9 | 0,1 | 233 36 100 030 |
| | 29,0 | | | 3,0 - 4,5 | | | S=7,1-e | | | 233 36 100 045 |
| | 30,6 | | | 4,5 - 6,0 | | | S=8,7-e | | | 233 36 100 060 |

RIVKLE® – Standard blind rivet nuts - Stainless steel

Stainless 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) | 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 | 6,0 | 1,3 | S=5,3-e | 5,4 | | | |
| 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 | 7,0 | 1,5 | S=5,4-e | 8,4 | | | |
| 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 | 9,0 | 1,5 | S=7,1-e | 9,4 | | | |
| | 18,0 | 11,5 | 4,50 - 6,00 | 9,0 | 1,5 | S=5,4-e | 11,2 | | | |
| 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 | 11,0 | 1,5 | S=5,9-e | 11,1 | | | |
| | 19,7 | 13,5 | 4,50 - 6,00 | 11,0 | 1,5 | S=8,2-e | 11,4 | | | |
| 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 | 13,0 | 1,5 | S=7,1-e | 14,7 | | | |
| | 23,4 | 15,5 | 4,50 - 6,00 | 13,0 | 1,5 | S=8,7-e | 14,7 | | | |

Stainless steel | Thin head | Plain | Open



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

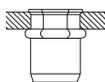
 For holes with imperial dimensions

Stainless steel | Flat head | Plain | Open



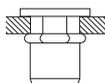
| | d (mm) | L (mm) | B (mm) | e (mm) (min - max) | $\varnothing_{\pm 0,1/0}$ (mm) | S (mm) | L ₂ (mm) | E _{max} (mm) | |
|------------|-----------|-----------|-----------|--------------------------|-----------------------------------|-----------|------------------------|--------------------------|-----------------------|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

RIVKLE® – Standard blind rivet nuts - Stainless steel A4



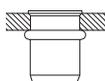
Stainless steel A4 | Thin head | Semi-hexagonal | Open

| |  |  |  |  |  |  |  |  |  |
|-----------|---|---|---|---|---|---|---|---|---|
| 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 | | | | | | 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 | | | | | | 343 44 080 030 | |



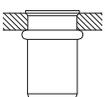
Stainless steel A4 | Flat head | Semi-hexagonal | Open

| |  |  |  |  |  |  |  |  |  |
|-----------|---|---|---|---|---|---|---|---|---|
| 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 | | | | | | 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 | | | | | | 233 44 080 030 | |



Stainless steel A4 | Thin head | Plain | Open

| |  |  |  |  |  |  |  |  |  |
|-----------|---|---|---|---|---|---|---|---|---|
| M5 | 12,0 | 7,5 | 0,5 - 3,0 | 7,0 | 12 000 | 7,2 | 0,4 | 343 64 050 030 | |
| M6 | 14,5 | 9,5 | | 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 | |

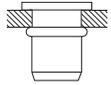


Stainless steel A4 | Thin head | Plain | Closed

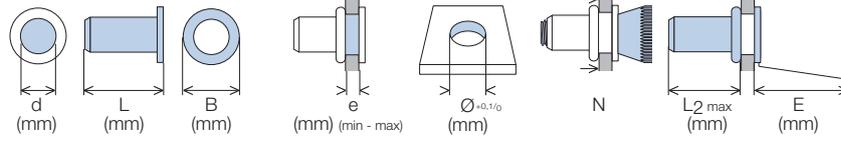
| |  |  |  |  |  |  |  |  |  |
|-----------|---|---|---|---|---|---|---|---|---|
| M4 | 15,5 | 6,5 | 0,5 - 2,0 | 6,0 | 9 500 | 11,6 | 0,5 | 343 74 040 020 | |
| M5 | 18,0 | 7,5 | | | | | | 343 74 050 030 | |
| M6 | 21,5 | 9,5 | 0,5 - 3,0 | 9,0 | 15 000 | 16,7 | | 343 74 060 030 | |
| M8 | 24,0 | 11,5 | | | | | | 343 74 080 030 | |

Range dedicated to industry use. In case of non metallic support, please contact us.

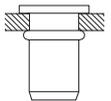
RIVKLE® – Standard blind rivet nuts - Stainless steel A4



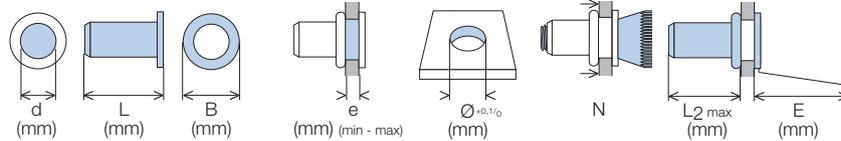
Stainless steel A4 | Thin head | Plain | Open



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



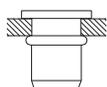
Stainless steel A4 | Thin head | Plain | Closed



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

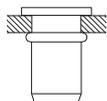
Range dedicated to industry use. In case of non metallic support, please contact us.

RIVKLE® – 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) |  L ₂ (mm) |  E (mm) |  |
|------------|---|---|---|---|---|--|--|---|---|
| M3 | 10,5 | 8,0 | 0,50 - 2,00 | 5,0 | 5,0 | S=3,2-e | 5,4 | 0,75 | 233 00 030 020 |
| | 10,75 | 7,5 | 2,00 - 3,50 | | | S=4,3-e | 1,0 | 233 00 030 035 | |
| M4 | 11,0 | 9,0 | 0,25 - 2,50 | 6,0 | 6,0 | S=4,1-e | 6,3 | 1,0 | 233 00 040 025 |
| | 13,0 | 10,0 | 3,00 - 4,50 | | | S=5,9-e | 6,4 | 0,75 | |
| M5 | 13,6 | 10,0 | 0,50 - 3,00 | 7,0 | 7,0 | S=4,5-e | 7,8 | 1,0 | 233 00 050 030 |
| | 16,0 | 11,0 | 3,00 - 5,50 | | | S=6,7-e | 8,3 | | |
| M6 | 16,6 | 13,0 | 0,50 - 3,00 | 9,0 | 9,0 | S=5,0-e | 10,4 | 1,5 | 233 00 060 030 |
| | 18,0 | 13,0 | 3,00 - 5,50 | | | S=6,8-e | 9,7 | | |
| M8 | 20,0 | 16,0 | 0,50 - 3,00 | 11,0 | 11,0 | S=5,8-e | 12,7 | 1,5 | 233 00 080 030 |
| | 20,0 | 16,0 | 3,00 - 5,50 | | | S=7,2-e | 11,3 | | |
| M10 | 25,0 | 19,0 | 0,80 - 3,50 | 13,0 | 13,0 | S=6,2-e | 16,8 | 2,0 | 233 00 100 035 |
| | 27,7 | 19,0 | 3,50 - 6,00 | | | S=8,7-e | 17,0 | | |



Aluminium | Thin head | Plain | Closed

| |  d (mm) |  L (mm) |  B (mm) |  e (mm) (min - max) |  Ø ^{+0.1/0} (mm) |  S (mm) |  L ₂ (mm) |  E (mm) |  |
|------------|---|---|---|---|---|--|--|---|---|
| M3 | 13,5 | 7,5 | 0,25 - 2,00 | 5,0 | 5,0 | S=3,0-e | 9,3 | 1,0 | 233 20 030 020 |
| | 15,1 | 7,5 | 2,00 - 3,50 | | | S=4,3-e | 9,8 | | |
| M4 | 15,5 | 10,0 | 0,50 - 3,00 | 6,0 | 6,0 | S=4,0-e | 10,8 | 0,75 | 233 20 040 030 |
| | 18,1 | 9,0 | 2,50 - 4,50 | | | S=5,6-e | 11,5 | | |
| M5 | 19,0 | 11,0 | 0,50 - 3,00 | 7,0 | 7,0 | S=4,5-e | 13,5 | 1,0 | 233 20 050 031 |
| | 21,9 | 10,0 | 3,00 - 5,50 | | | S=6,9-e | 14,0 | | |
| M6 | 23,0 | 13,0 | 0,50 - 3,00 | 9,0 | 9,0 | S=4,5-e | 17,3 | 1,5 | 233 20 060 031 |
| | 26,3 | 13,0 | 3,00 - 5,50 | | | S=7,7-e | 17,1 | | |
| M8 | 24,0 | 16,0 | 0,50 - 3,00 | 11,0 | 11,0 | S=4,5-e | 18,0 | 1,5 | 233 20 080 031 |
| | 31,0 | 16,0 | 3,00 - 5,50 | | | S=8,5-e | 21,0 | | |
| M10 | 37,5 | 19,0 | 3,50 - 6,00 | 13,0 | 13,0 | S=9,0-e | 26,5 | 2,0 | 233 20 100 060 |

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

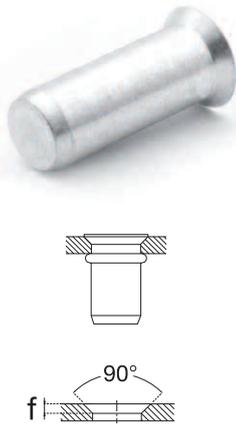
RIVKLE® – Standard blind rivet nuts – Aluminium

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 | 10,2 | 7,2 | 1,3 - 3,5 | 5,0 | 1,3 | S=4,0-e | 6,1 | 0,1 | 233 10 030 035 |
| | 11,8 | 11,8 | 7,2 | 3,5 - 5,0 | 5,0 | 1,3 | S=6,0-e | 5,7 | 0,1 | 233 10 030 050 |
| M4 | 11,5 | 11,5 | 9,0 | 1,7 - 3,5 | 6,0 | 1,5 | S=4,4-e | 6,7 | 0,1 | 233 10 040 036 |
| | 12,8 | 12,8 | 8,2 | 3,5 - 5,0 | 6,0 | 1,3 | S=6,0-e | 6,7 | 0,1 | 233 10 040 050 |
| M5 | 13,0 | 13,0 | 10,0 | 1,0 - 4,0 | 7,0 | 0,9 | S=5,5-e | 7,8 | 0,1 | 233 10 050 040 |
| | 16,3 | 16,3 | 9,6 | 4,0 - 6,5 | 7,0 | 1,5 | S=7,7-e | 8,5 | 0,1 | 233 10 050 065 |
| M6 | 17,0 | 17,0 | 12,0 | 1,7 - 4,5 | 9,0 | 1,5 | S=6,3-e | 10,4 | 0,1 | 233 10 060 046 |
| | 18,7 | 18,7 | 11,7 | 4,5 - 6,5 | 9,0 | 1,5 | S=8,7-e | 9,9 | 0,1 | 233 10 060 065 |
| M8 | 19,0 | 19,0 | 14,0 | 1,7 - 4,5 | 11,0 | 1,5 | S=7,5-e | 12,7 | 0,1 | 233 10 080 046 |
| | 22,2 | 22,2 | 13,5 | 4,5 - 6,5 | 11,0 | 1,5 | S=9,3-e | 12,8 | 0,1 | 233 10 080 065 |
| M10 | 21,0 | 21,0 | 15,4 | 1,7 - 4,5 | 12,5 | 1,5 | S=7,5-e | 13,2 | 0,1 | 233 10 100 046 |
| | 26,1 | 26,1 | 15,5 | 4,5 - 6,5 | 13,0 | 1,5 | S=10,4-e | 17,0 | 0,1 | 233 10 100 065 |

Aluminium | Countersunk head | Plain | Closed



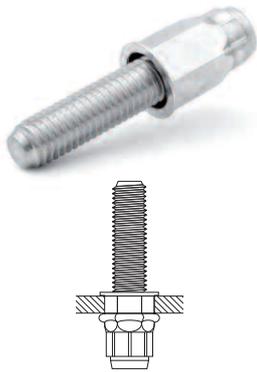
| | d (mm) | L (mm) | B (mm) | e (mm) (min - max) | $\varnothing^{+0.1/0}$ (mm) | f (mm) | S (mm) | L ₂ (mm) | E _{max} (mm) | |
|------------|-----------|-----------|-----------|--------------------------|--------------------------------|-----------|-----------|------------------------|--------------------------|-----------------------|
| M3 | 14,1 | 14,1 | 7,2 | 1,5 - 3,5 | 5,0 | 1,3 | S=4,0-e | 10,0 | 0,1 | 233 30 030 035 |
| | 17,7 | 17,7 | 7,2 | 1,5 - 3,5 | 5,0 | 1,3 | S=4,6-e | 11,6 | 0,1 | 233 30 040 035 |
| M4 | 19,3 | 19,3 | 8,2 | 3,5 - 5,0 | 6,0 | 1,3 | S=6,0-e | 11,8 | 0,1 | 233 30 040 050 |
| | 19,4 | 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 | 25,2 | 11,7 | 1,5 - 4,5 | 9,0 | 1,5 | S=6,5-e | 17,0 | 0,1 | 233 30 060 045 |
| | 27,3 | 27,3 | 11,7 | 4,5 - 6,5 | 9,0 | 1,5 | S=8,6-e | 17,0 | 0,1 | 233 30 060 065 |
| M8 | 30,0 | 30,0 | 13,5 | 1,5 - 4,5 | 11,0 | 1,5 | S=6,9-e | 21,4 | 0,1 | 233 30 080 045 |
| | 32,1 | 32,1 | 13,5 | 4,5 - 6,5 | 11,0 | 1,5 | S=9,1-e | 21,3 | 0,1 | 233 30 080 065 |
| M10 | 33,9 | 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 nuts with high mechanical strength, a **RIVKLE® HRT** version is available. See page 41.

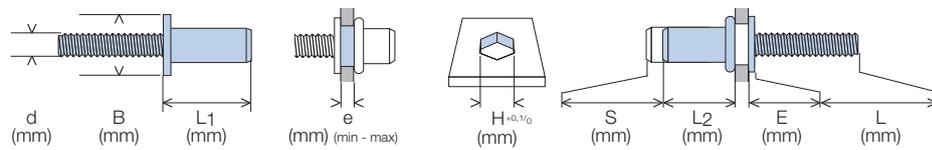
RIVKLE® – Standard blind rivet studs - Steel

Advantages

- Allows you to hold the part to be screwed onto the 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

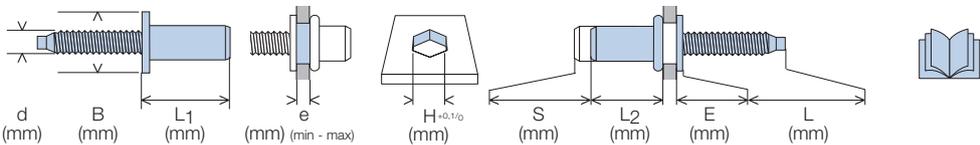


Steel | Thin head | Hexagonal



| M8 | 10,0 | 15,8 | 0,5 - 3,0 | 9,0 | S=5,5-e | 8,0 | 0,45 | 21,0 - 25,5 | 372 91 080 527 |
|----|------|------|-----------|-----------|---------|---------|------|-------------|----------------|
| | | 13,5 | 20,2 | 3,0 - 5,5 | 11,0 | S=8,0-e | 11,7 | 0,5 | 28,0 - 32,0 |

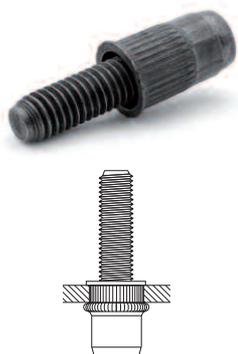
Steel | Flat head | Hexagonal



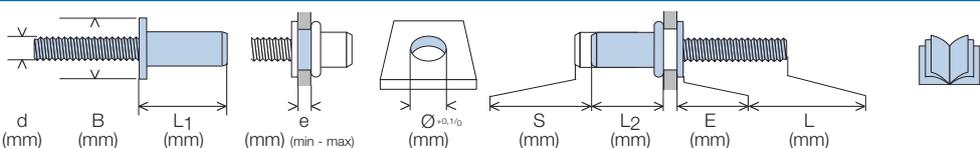
| M5 | 10,0 | 12,0 | 0,5 - 3,0 | 7,0 | S=4,4-e | 7,0 | 1,0 | 11,5 - 16,0 | 372 59 050 501* | 1 | 2 |
|----|------|------|-----------|------|---------|-----|-----|-------------|-----------------|----------------|---|
| | | | | | | | | | 16,5 - 21,0 | 372 91 060 506 | |
| M6 | 13,0 | 14,3 | 0,5 - 3,0 | 9,0 | S=4,8-e | 8,0 | 1,5 | 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 | 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: 1 = Zn8K+/Fe ; 2 = ZnNi8A/Fe



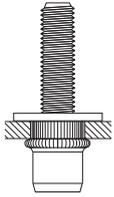
Steel | Thin head | Knurled



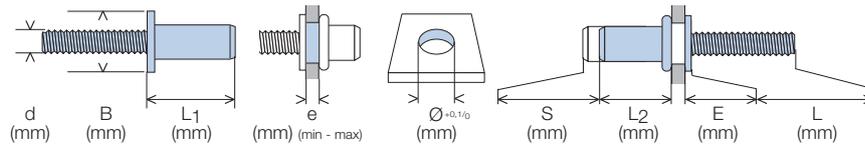
| M6 | 10,0 | 15,3 | 1,0 - 4,0 | 9,0 | S=5,7-e | 8,95 | 0,6 | 15,4 - 20,4 | 372 97 060 518 | 1 | 2 |
|----|------|------|-----------|------|---------|------|-----|-------------|----------------|----------------|---|
| | | | | | | | | | 11,4 - 16,4 | 372 97 060 519 | |
| M8 | 12,0 | 17,5 | 1,0 - 4,0 | 11,0 | S=7,0-e | 9,5 | 0,6 | 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: 1 = Zn8K+/Fe ; 2 = ZnNi8A/Fe

RIVKLE® – Standard blind rivet studs - Steel



Steel | Flat head | Knurled

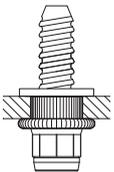


| | d (mm) | B (mm) | L1 (mm) | e (mm) (min - max) | Ø ^{+0.1/0} (mm) | S (mm) | L2 (mm) | E (mm) | L (mm) | | 1 | 2 |
|-----------|--------|--------|-----------|--------------------|--------------------------|--------|---------|-------------|------------------------------------|------------------------------------|---|---|
| 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 ^s | ✓ | |
| | | 15,6 | 0,5 - 3,0 | | | | | S=5,7-e | 23,5 - 28,0 | 372 27 080 125 | ✓ | |

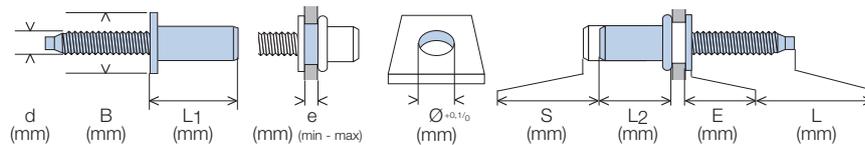
s : parts available from stock, package quantity 250 pieces.

Revêtement 1 = Zn8K+/Fe ; 2 = ZnNi8A/Fe

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



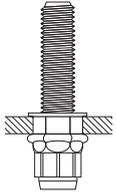
Steel | Flat head | Fir Tree studs



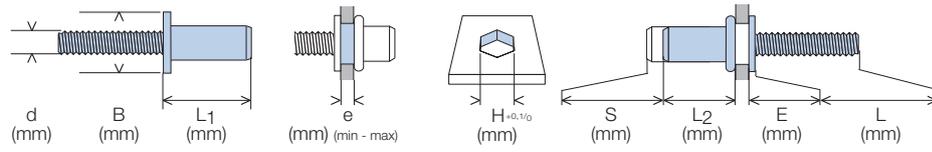
| | d (mm) | B (mm) | L1 (mm) | e (mm) (min - max) | Ø ^{+0.1/0} (mm) | S (mm) | L2 (mm) | E (mm) | L (mm) | | 1 | 2 |
|-----------|-----------|---------|-------------|-----------------------|--------------------------|--------|---------|-------------|-----------------------|-----------------------|---|---|
| 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 | 14,5 - 19,0 | 372 97 059 507 | ✓ | |
| | | 11,6 | 1,5 - 4,0 | | | | | S=5,7-e | 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 | ✓ | | | | | | | |

Revêtement 1 = Zn8K+/Fe ; 2 = ZnNi8A/Fe

RIVKLE® – Standard blind rivet studs - Stainless steel



Stainless steel | Thin head | Hexagonal



| | | | | | | | | | |
|-----------|------|-------|-----------|-----|---------|------|-----|-------------|-----------------------|
| 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 RIVKLE® stainless steel studs are lubricated.

RIVKLE®

PRODUCT VARIANTS



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| | |
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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.

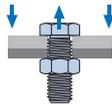
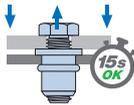


Advantages

- 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 rivet nut provides full compatibility with class 8.8 screws.



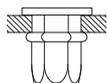
Permissible loads

| | Ø | Standard Rivet Nut | | RIVKLE HRT | |
|-------------------|------------|--------------------|----------------|------------------|----------------|
| | | 10.9 (ISO 898-1) | 10 (ISO 898-2) | 10.9 (ISO 898-1) | 10 (ISO 898-2) |
| Steel 10.9 | M6 | 16 700 N | 20 900 N | 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 | | 12.9 (ISO 898-1) | 12 (ISO 898-2) | | |
| | M6 | 19 500 N | 23 100 N | 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 |
| Aluminium | | 8.8 (ISO 898-1) | 8 (ISO 898-2) | | |
| | M5 | 8 230 N | 12 140 N | 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 |

RIVKLE® HRT - Steel

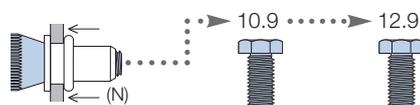
Steel HRT | Flat head | Hexagonal | Open



| | d (mm) | L (mm) | B (mm) | e (mm) (min - max) | H ^{+0,1/0} (mm) | S (mm) | L ₂ (mm) | E (mm) | | 10.9 | 12.9 |
|----------------|-----------|-----------|-----------|-----------------------|-----------------------------|-----------------------|------------------------|-----------|-----------------------|------|------|
| M6 | 20,0 | 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 | | 1,0 - 3,0 | 11,0 | S=6,3-e | 16,0 | 1,5 | 232 91 080 504 | ✓ | - |
| | 26,6 | | 3,0 - 6,0 | S=9,6-e | | 232 49 080 502 | | | ✓ | ✓ | |
| M10 | 27,0 | 20,0 | | 1,0 - 3,5 | 13,0 | S=8,7-e | 17,5 | 2,0 | 232 91 100 503 | ✓ | ✓ |
| | 28,5 | 24,0 | 2,0 - 5,0 | S=9,5-e | | 18,0 | 232 91 100 501 | | ✓ | ✓ | |
| M12x1,5 | 33,0 | 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.

Setting forces*



| | | | |
|----------------|-----------------------|--------|--------|
| M6 | 232 91 060 502 | 14 000 | - |
| M8 | 232 91 080 504 | 24 000 | - |
| | 232 49 080 502 | 24 000 | 27 000 |
| M10 | 232 91 100 503 | 38 000 | 42 000 |
| | 232 91 100 501 | 38 000 | 42 000 |
| M12x1,5 | 232 91 124 501 | 55 000 | 61 000 |

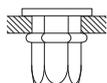
*The recommended setting force depends on the characteristics of the assembly.

To prevent any re-setting of the RIVKLE® 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.

RIVKLE® HRT - Aluminum

Aluminium HRT | Flat head | Hexagonal | Open

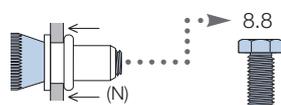


| | d (mm) | L (mm) | B (mm) | e (mm) (min - max) | H ^{+0,1/0} (mm) | S (mm) | L ₂ (mm) | E (mm) | | 8.8 |
|-----------|-----------|-----------|-----------|-----------------------|-----------------------------|-----------|------------------------|-----------|-----------------------|-----|
| M5 | 18,1 | 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 | | 0,5 - 3,0 | 9,0 | S=6,8-e | 11,5 | 1,5 | 232 40 060 030 | ✓ |
| M8 | 23,6 | 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 key to light assemblies

An advantage for weight saving in vehicles

This rivet nut adds a high-strength female thread in polymer materials without causing damage to the application material. RIVKLE® 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 assembly components



Permissible loads

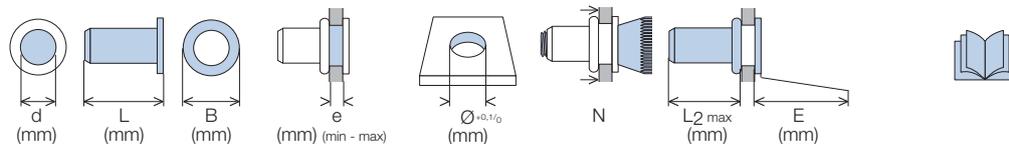
| | | | |
|--|----------|-------------------|----------|
| | | | |
| M6 | 12 000 N | RIVKLE® reusable* | 15 000 N |
| M8 | 18 000 N | RIVKLE® reusable* | 27 000 N |
| Similar performance to standard RIVKLE® | | | |

*RIVKLE® is more resistant than screw property class 8.8

RIVKLE® SFC - Steel



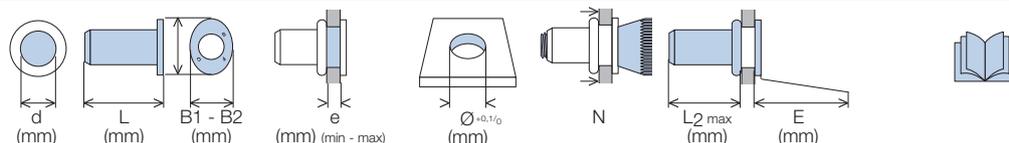
Steel | Flat head | Open



| | | | | | | | | |
|-----------|------|------|-----------|------|--------|------|-----|-----------------------|
| M5 | 16,1 | 16,0 | 2,0 - 3,5 | 8,1 | 8 000 | 8,0 | 1,0 | 233 91 050 795 |
| | 17,6 | | 3,5 - 5,0 | | | | | 233 91 050 796 |
| M6 | 20,7 | 13,0 | 2,0 - 3,5 | 9,1 | 12 000 | 11,0 | 1,5 | 233 91 060 968 |
| | 22,2 | | 3,5 - 5,0 | | | | | 233 91 060 971 |
| | 20,7 | | 2,0 - 3,5 | | | | | 233 91 060 969 |
| M8 | 22,2 | 18,0 | 3,5 - 5,0 | 11,1 | 18 000 | 12,0 | 1,5 | 233 91 060 970 |
| | 22,0 | | 2,0 - 3,5 | | | | | 233 91 080 848 |
| | 23,5 | | 3,5 - 5,0 | | | | | 233 91 080 849 |



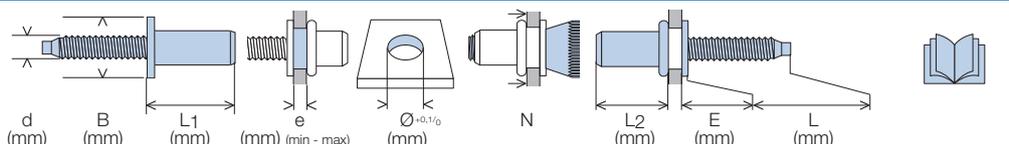
Steel | Elliptic head | Open



| | | | | | | | | | |
|-----------|------|----|----|-----------|-----|--------|------|-----|-----------------------|
| M6 | 20,9 | 17 | 13 | 2,2 - 3,7 | 9,2 | 12 000 | 11,5 | 1,7 | 233 91 060 995 |
|-----------|------|----|----|-----------|-----|--------|------|-----|-----------------------|

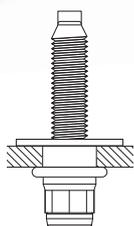


Steel | Flat head | Knurled



| | | | | | | | | | | |
|-----------|------|------|-----------|-----|--------|------|-----|-------------|-----------------------|---|
| M6 | 18,0 | 19,8 | 2,0 - 3,5 | 9,1 | 11 600 | 13,0 | 1,5 | 25,0 - 28,0 | 372 91 060 522 | ✓ |
| | | 18,3 | | | | | | 16,5 - 19,5 | 372 91 060 525 | ✓ |

Coating: ❶ = Zn8K+/Fe ; ❷ = ZnNi8A/Fe



RIVKLE® SFC is fully compatible with the whole **BÖLLHOFF RIVKLE®** 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).

The universal solution for supports with extreme variations

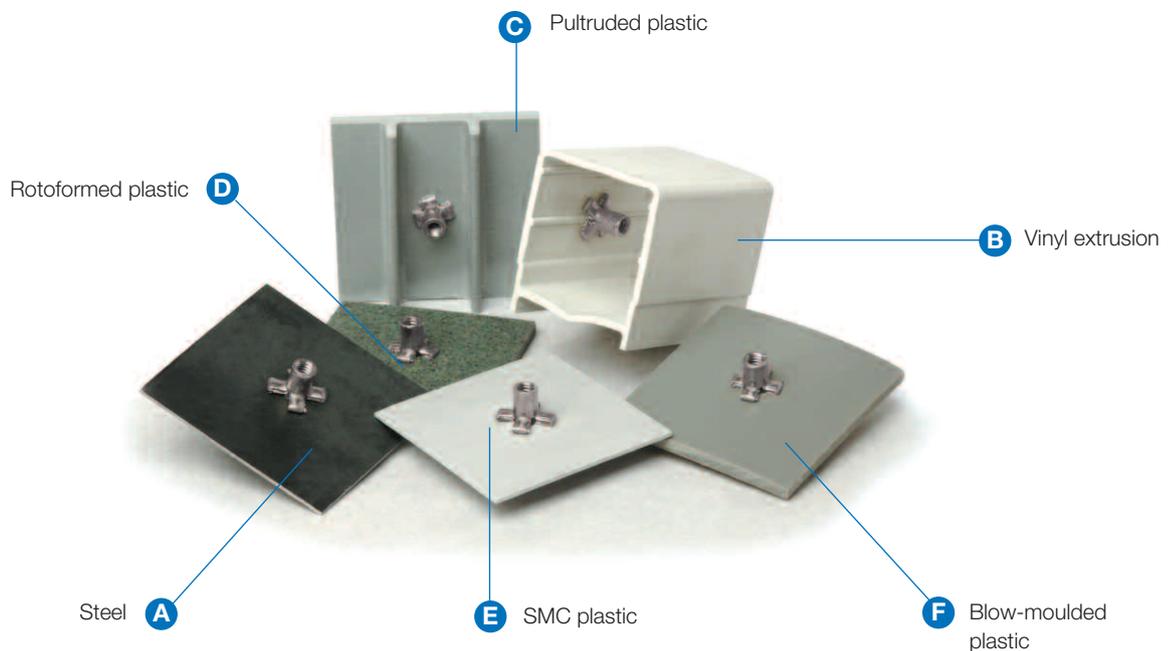
Extreme versatility in terms of thickness and diameter

The main difference of this RIVKLE® 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.

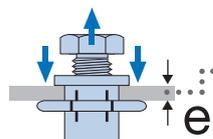


Advantages

- 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.



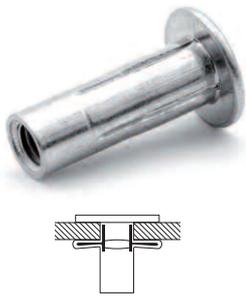
Mechanical performance



| | A | B | C | D | E | F |
|----------------------|----------|----------|----------|----------|----------|----------|
| RIVKLE® M6 | 2 130 N | 900 N | 6 760 N | 100 N | 600 N | 1 250 N |
| RIVKLE® PN M6 | 5 400 N | 2 750 N | 8 400 N | 700 N | 1 620 N | 3 220 N |

Test according to BÖLLHOFF specifications.

RIVKLE® 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 | 22,0 | 12,7 | 0,5 - 3,0 | 7,47 | 7,48 | 7,62 | 9,9 | 1,0 | 668 70 511 030 |
| M6 | 26,9 | 26,9 | 15,9 | 0,5 - 5,0 | 8,79 | 8,80 | 8,93 | 12,8 | 1,5 | 668 70 611 050 |
| M8 | 30,5 | 30,5 | 19,0 | 0,5 - 5,0 | 11,10 | 11,11 | 11,50 | 14,5 | 1,5 | 668 70 811 050 |

RIVKLE® 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 | 17,6 | 11,15 | 0,50 - 3,80 | 6,12 | 6,13 | 6,25 | 8,6 | 0,95 | 668 30 411 038 |
| M5 | 21,95 | 21,95 | 12,7 | 0,50 - 4,45 | 7,47 | 7,48 | 7,58 | 9,9 | 0,95 | 668 30 511 044 |
| | 23,8 | 23,8 | | 4,45 - 8,10 | 7,97 | | | | | 668 30 511 081 |
| M6 | 26,9 | 26,9 | 15,9 | 0,50 - 7,10 | 8,79 | 8,80 | 8,90 | 12,8 | 1,50 | 668 30 611 071 |
| | 32,8 | 32,8 | | 7,10 - 12,7 | | | | | | 668 30 611 127 |
| M8 | 30,5 | 30,5 | 19,0 | 0,50 - 7,10 | 11,10 | 11,11 | 11,50 | 14,5 | 1,57 | 668 30 811 071 |
| M10 | 33,2 | 33,2 | 22,25 | 0,50 - 7,10 | 13,06 | 13,07 | 13,26 | 15,8 | 2,25 | 668 31 011 071 |

RIVKLE® 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 | 17,6 | 11,1 | 0,50 - 3,80 | 6,12 | 6,13 | 6,25 | 8,6 | 0,96 | 668 30 488 038 |
| M5 | 22,0 | 22,0 | 12,7 | 0,50 - 4,45 | 7,47 | 7,48 | 7,58 | 9,9 | 0,95 | 668 30 588 044 |
| | 23,8 | 23,8 | | 4,45 - 8,10 | 7,97 | | | | | 668 30 588 081* |
| M6 | 26,9 | 26,9 | 15,9 | 0,50 - 7,10 | 8,79 | 8,80 | 8,90 | 12,8 | 1,50 | 668 30 688 071 |
| | 32,8 | 32,8 | | 7,10 - 12,7 | | | | | | 668 30 688 127* |
| M8 | 30,5 | 30,5 | 19,0 | 0,50 - 7,10 | 11,10 | 11,11 | 11,50 | 14,5 | 1,50 | 668 30 888 071 |
| M10 | 33,2 | 33,2 | 22,2 | 0,50 - 7,10 | 13,06 | 13,07 | 13,26 | 15,8 | 2,24 | 668 31 088 071* |

*Item not in stock – please contact BÖLLHOFF for availability

RIVKLE® PN - Tooling

Please use dedicated tooling, see page 58.

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 RIVKLE® 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 RIVKLE® 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).

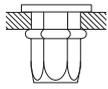
New

RIVKLE® Seal Ring - Steel

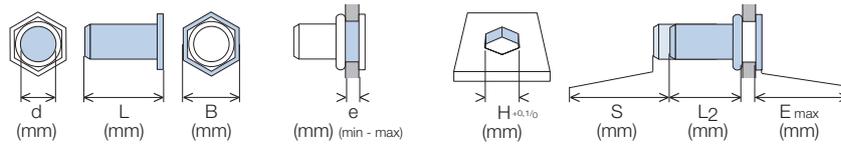
The **RIVKLE® Seal Ring** range is available with NBR seals for temperature stability from -30°C to +100°C.

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

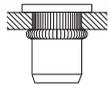
On request, please contact BÖLLHOFF.



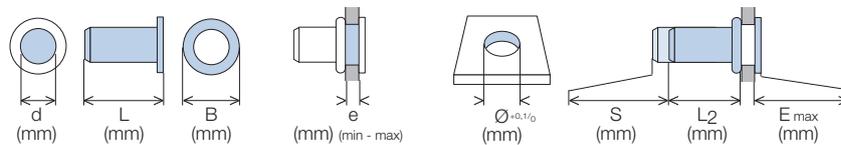
Steel | Flat head | Hexagonal | Closed



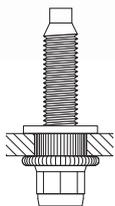
| | | | | | | | | |
|-----------|------|------|-----------|------|---------|------|-----|-----------------------|
| M5 | 19,2 | 13,0 | 0,8 - 3,0 | 7,0 | S=5,0-e | 13,0 | 1,5 | 233 91 050 807 |
| | 21,4 | | 2,5 - 5,0 | | S=7,1-e | | | 233 91 050 808 |
| M6 | 22,0 | 15,0 | 0,8 - 3,0 | 9,0 | S=4,6-e | 16,5 | 1,5 | 233 91 060 026 |
| | 24,2 | | 2,5 - 5,0 | | S=6,9-e | | | 233 91 060 027 |
| M8 | 26,5 | 18,0 | 0,8 - 3,0 | 11,0 | S=5,5-e | 19,8 | 1,5 | 233 91 080 875 |
| | 28,7 | | 2,5 - 5,0 | | S=7,7-e | | | 233 91 080 876 |



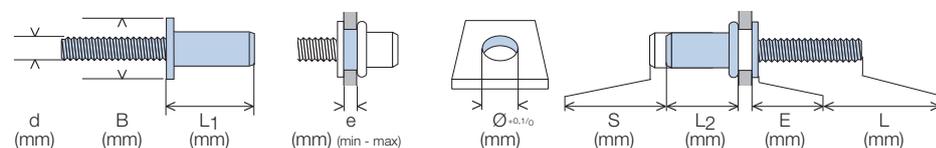
Steel | Flat head | Knurled | Closed



| | | | | | | | | |
|-----------|------|------|-----------|------|---------|------|-----|-----------------------|
| M5 | 19,3 | 12,0 | 0,5 - 3,0 | 8,0 | S=4,1-e | 14,8 | 1,5 | 233 97 050 693 |
| | 21,5 | | 2,5 - 5,0 | | S=6,2-e | | | 233 97 050 694 |
| M6 | 22,3 | 13,0 | 0,8 - 3,0 | 9,0 | S=4,3-e | 16,5 | 1,5 | 233 97 060 813 |
| | 24,5 | | 2,5 - 5,0 | | S=6,5-e | | | 233 97 060 814 |
| M8 | 26,6 | 16,0 | 0,8 - 3,0 | 11,0 | S=4,8-e | 19,8 | 1,5 | 233 97 080 757 |
| | 28,5 | | 2,5 - 5,0 | | S=7,1-e | | | 233 97 080 758 |



Steel | Flat head | Knurled

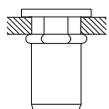


| | | | | | | | | | |
|-----------|------|------|-----------|-----|---------|-----|-----|-------------|-----------------------|
| M6 | 13,0 | 13,0 | 0,8 - 3,0 | 9,0 | S=4,8-e | 9,0 | 1,5 | 16,3 - 20,8 | 372 97 060 537 |
|-----------|------|------|-----------|-----|---------|-----|-----|-------------|-----------------------|

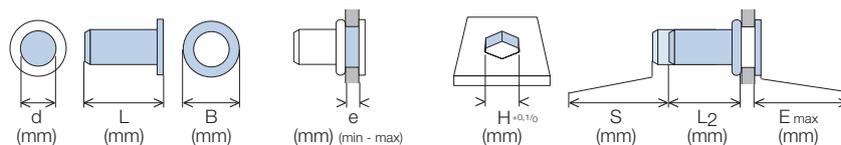


Sealed RIVKLE® - Stainless steel

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



Stainless steel | Flat head | Semi-hexagonal | Closed



| | | | | | | | | |
|-----------|------|------|-----------|------|--------|------|-----|-----------------------|
| M5 | 19,0 | 13,5 | 0,5 - 3,0 | 7,0 | 4,6-e | 14,4 | 1,5 | 233 94 050 504 |
| | 20,5 | | 3,0 - 4,5 | | 5,9-e | | | 233 94 050 505 |
| M6 | 21,5 | 16,0 | 0,5 - 3,0 | 9,0 | 5,5-e | 16,0 | 1,5 | 233 94 060 599 |
| | 24,4 | | 2,0 - 4,5 | | 7,26-e | | | 233 94 060 600 |
| M8 | 25,0 | 21,0 | 0,5 - 3,0 | 11,0 | 5,7-e | 19,3 | 1,5 | 233 94 080 501 |
| | 27,5 | | 3,0 - 5,5 | | 8,7-e | | | 233 94 080 502 |



Depending on the type and volume of your applications, BÖLLHOFF also offers RIVKLE® fasteners with an injected seal under the head.

RIVKLE®
SETTING TOOLS



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RIVKLE® BRK 01 - Manual assembly tool



| | Ø RIVKLE® | | | | | | | |
|-----------------|-----------|----|----|----|----|-----|-----|-----|
| | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M14 |
| Steel | ■ | ■ | ■ | ■ | | | | |
| Stainless steel | ■ | ■ | ■ | | | | | |
| Aluminium | ■ | ■ | ■ | ■ | | | | |

600 g

235 119 00000
Tooling included (M3 - M6)

RIVKLE® 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 | | |

RIVKLE® M2007 - Manual assembly tool



| | Ø RIVKLE® | | | | | | | |
|-----------------|-----------|----|----|----|----|-----|-----|-----|
| | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M14 |
| Steel | | | ■ | ■ | ■ | ■ | ■ | |
| Stainless steel | | | ■ | ■ | ■ | ■ | ■ | |
| Aluminium | | | ■ | ■ | ■ | ■ | ■ | |

1200 g

235 302 01000
Tooling included (M5 - M12)

RIVKLE® 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 |
| 235 302 01003 | x1 | x1 | x1 | x1 | x1 | x1 |

RIVKLE® BRK 10 - Lever type assembly tool



| | Ø RIVKLE® | | | | | | | |
|-----------------|-----------|----|----|----|----|-----|-----|-----|
| | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M14 |
| Steel | | | ■ | ■ | ■ | ■ | | |
| Stainless steel | | | ■ | ■ | ■ | | | |
| Aluminium | | | ■ | ■ | ■ | ■ | | |

Kg 1900 g **235 120 00000**
Tooling included (M5 - M10)

RIVKLE® ES 51 - Hydraulic manual assembly tool



| | Ø RIVKLE® | | | | | | | |
|-----------------|-----------|----|----|----|----|-----|-----|-----|
| | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M14 |
| Steel | | | | ■ | ■ | ■ | ■ | ■ |
| Stainless steel | | | | ■ | ■ | ■ | ■ | ■ |
| Aluminium | | | | ■ | ■ | ■ | ■ | ■ |

Kg 2700 g **235 118 00000**
Tooling not included

RIVKLE® OPTEX - Hexagonal punching and assembly tool



| | 0,5 - 2,5 mm | Ø RIVKLE® | | |
|-----------|--------------|-----------|----|----|
| | | M5 | M6 | M8 |
| Steel | | ■ | ■ | ■ |
| Aluminium | | ■ | ■ | ■ |

Kg 2100 g **235 110 00000**
Tooling included (M5 - M8)

Tooling equipment



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



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



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



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



| RIVKLE® OPTEX | | 235 110 XX 020 | Ø RIVKLE® | | |
|---------------|--|----------------|-----------|----|----|
| | | | M5 | M6 | M8 |
| Mandrel | | | 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 |

RIVKLE® – Hydropneumatic and battery-powered setting tools

RIVKLE® P2005



Stroke setting hand tool

| | Ø RIVKLE® | | | | | | | |
|-----------------|-----------|----|----|----|----|-----|-----|-----|
| | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M14 |
| Steel | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |
| Stainless steel | ■ | ■ | ■ | ■ | ■ | ■ | | |
| Aluminium | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |



236 155 01000

Tooling not included (see page 57)

| | |
|------------------------|----------------------|
| Maximum stroke | 7.0 mm |
| Maximum setting force | 26 kN |
| Operating air pressure | 5.5 bar min to 7 max |
| Weight without tooling | 2.6 kg |
| Noise level | < 70 dB (A) |
| Production rate | 35 RIVKLE® /min |

RIVKLE® P2007



A versatile tool, suitable for a wide range of applications

| | Ø RIVKLE® | | | | | | | |
|-----------------|-----------|----|----|----|----|-----|-----|-----|
| | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M14 |
| Steel | | ■ | ■ | ■ | ■ | ■ | | |
| Stainless steel | ■ | ■ | ■ | ■ | ■ | | | |
| Aluminium | | | ■ | ■ | ■ | ■ | ■ | |



236 156 01000

Tooling not included (see page 57)

| | |
|------------------------|------------------------------|
| 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 RIVKLE® /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.

RIVKLE® B2007



| | |
|------------------------|-------------------------------------|
| Maximum stroke | 8.0 mm |
| Maximum setting force | 22 kN (from M3 to M10 steel) |
| Battery | Li-Ion / 14.4 V / 2,6 Ah |
| Weight without tooling | 2.1 kg + 0.3 kg (tooling + battery) |
| Noise level | < 70 dB (A) |
| Production rate | 24 RIVKLE® /min |

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

Battery-powered tool

| | Ø RIVKLE® | | | | | | | |
|-----------------|-----------|----|----|----|----|-----|-----|-----|
| | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M14 |
| Steel | ■ | ■ | ■ | ■ | ■ | ■ | | |
| Stainless steel | ■ | ■ | ■ | ■ | ■ | ■ | | |
| Aluminium | | ■ | ■ | ■ | ■ | ■ | | |

 **Package with 1 battery** 236 166 01000
Package with 2 batteries 236 167 01000

Tooling not included (see page 57)

Comparable weight to the RIVKLE® P2007 when fitted with hose

| RIVKLE® B2007 | RIVKLE® P2007 |
|---|---|
|  |  |
| Tool + Tooling + Battery | Tool + Tooling + Pneumatic |
| 2.12 + 0.07 + 0.30 | 2.20 + 0.07 + 0.33 |
| Total weight = 2.49 kg | Total weight = 2.60 kg |

RIVKLE® 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 RIVKLE® /min |

Power

| | Ø RIVKLE® | | | | | | | |
|-----------------|-----------|----|----|----|-----|-----|-----|-----|
| | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 |
| Steel | | | | ■ | ■ | ■ | ■ | |
| Stainless steel | | | | ■ | ■ | ■ | | |
| Aluminium | | | | ■ | ■ | ■ | ■ | ■ |

 **236 159 01000**

Tooling not included (see page 57)



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.

RIVKLE® P2007 PN



| Ø RIVKLE® PN | | | | | | | |
|--------------|----|----|----|----|-----|-----|-----|
| M3 | M4 | M5 | M6 | M8 | M10 | M12 | M14 |
| Steel | ■ | ■ | ■ | ■ | | | |



236 158 01000

Tooling not included (see page 57)

| | |
|------------------------|--------------------------|
| 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 RIVKLE® /min |

RIVKLE® P3007 PN



| Ø RIVKLE® PN | | | | | | | |
|--------------|----|----|----|----|-----|-----|-----|
| M3 | M4 | M5 | M6 | M8 | M10 | M12 | M14 |
| Steel | | | | ■ | ■ | | |



236 160 01000

Tooling not included (see page 57)

| | |
|------------------------|--------------------------|
| 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 RIVKLE® /min |

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

RIVKLE® – Force Controller



The RIVKLE® 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 **RIVKLE® 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. This controller ensures compliance with the 3rd condition of the RIVKLE® setting parameters.



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 studs and nuts.
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 | |
|--------------|-------------------------------|
| Washer + Nut | 282 522 14 1XX |
| | 282 522 14 XXX |

| Ø RIVKLE® | | | | | | | | | | |
|-----------|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| M3 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | | |
| 03 | 04 | 05 | 06 | 08 | 10 | 12 | 14 | 16 | | |
| - | M4 | M5 | D5 | M6 | D6 | M8 | D8 | M10 | | |
| - | 204 | 205 | 505 | 206 | 506 | 208 | 508 | 210 | | |

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

Tooling



| RIVKLE® P2005 / P2007 | | | | Ø RIVKLE® | | | | | | | | | |
|------------------------------|--|--|----------------|-----------|----|----|----|----|------|------|-----|-----|--|
| | | | | 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) | - | - | - | |
| RIVKLE® P3007 | | | | | | | | | | | | | |
| Mandrel | | | 236 159 XX 020 | - | - | - | - | 08 | 10 | 12 | 14 | 16 | |
| Anvil | | | 236 159 XX 030 | - | - | - | - | 08 | 10 | 12 | 14 | 16 | |

| RIVKLE® B2007 | | | | 3 → 18 kN | | | | | 18 → 22 kN | |
|--|--|--|----------------|-----------|----|----|----|----|----------------|----------------|
| | | | | M3 | M4 | M5 | M6 | M8 | M8 | M10 |
| Mandrel | | | 236 113 XX 020 | 03 | 04 | 05 | 06 | 08 | 236 913 08 110 | 236 913 10 019 |
| | | | 376 113 XX 020 | - | 04 | 05 | 06 | 08 | - | - |
| Anvil | | | 236 113 XX 030 | 03 | 04 | 05 | 06 | 08 | 08 | 10 |
| | | | 376 113 XX 030 | - | 04 | 05 | 06 | 08 | - | - |
| Nose for studs & force >18 kN (M8 & M10) | | | 236 166 00 303 | | | | | ✓ | ✓ | |
| Fork for studs & force >18 kN (M8 & M10) | | | 236 166 00 304 | | | | | ✓ | ✓ | |

| RIVKLE® P2005 / P2007 | | | | Ø RIVKLE® - UNC | | | | | Ø RIVKLE® - 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

RIVKLE® – Hydropneumatic and battery-powered setting tools

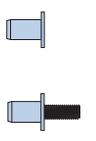
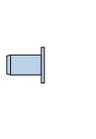
| | | | | Ø RIVKLE® - Fir tree stud | |
|------------------------------|---|---|----------------|---------------------------|--------|
| | | | | D5 | D6 |
| RIVKLE® P2005 / P2007 |  |  | 376 913 XX XXX | 05 401 | *(7) |
| Mandrel | | | | 05 030 | 06 030 |
| Anvil | | | | | |

*(7) = 563 500 50 010

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

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

*(5) = 236 913 10 006

| | | | | Ø RIVKLE® | | | | | | | | |
|----------------------------|---|---|----------------|-----------|----|----|----|----|-----|-----|-----|-----|
| | | | | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 |
| RIVKLE® TOOLING BOX |  |  | 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 10 988 (D8) | |
| Staubli hose, length 5 m, with D6 coupling |  | 236 003 01 000 | |



KIT

| | | | | | |
|-------------------------|----------------|----------------|-----------------------------------|-------------------------------------|-------------------------------------|
| RIVKLE® P2005 | 236 155 00 305 | 236 155 01 001 | 2 - 3 Kg 282 590 10 820 | 2,2 - 4 Kg 282 590 10 665 | 2,2 - 4 Kg 282 590 10 664 |
| RIVKLE® P2007 | | 236 156 01 001 | | | |
| RIVKLE® P2007 PN | 236 156 00 301 | - | 4 - 6 Kg 282 590 10 152 | - | - |
| RIVKLE® P3007 PN | | | | | |
| RIVKLE® P3007 | 236 159 00 301 | - | | | |



Standard battery 14,4V 2,6AH - Li-Ion Battery with higher capacity 14,4V 4,0AH - Li-Ion Standard charger Multicharger 4 positions Cord power supply Tool support Screw kit adaptor

| | | | | | | | |
|----------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------------|
| RIVKLE® B2007 | 282 590 30 350 | 282 590 30 351 | 282 590 30 352 | 282 590 30 354 | 282 590 30 356 | 236 166 00 308 | See page 60 |
|----------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------------|

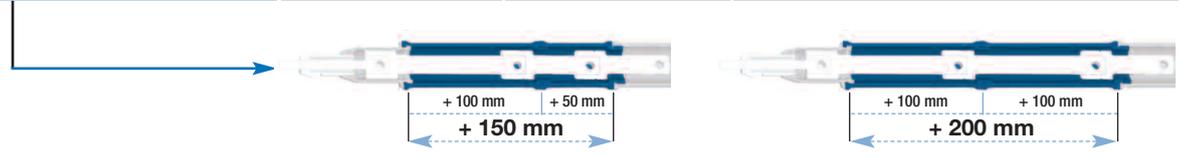
Refill & purge accessory



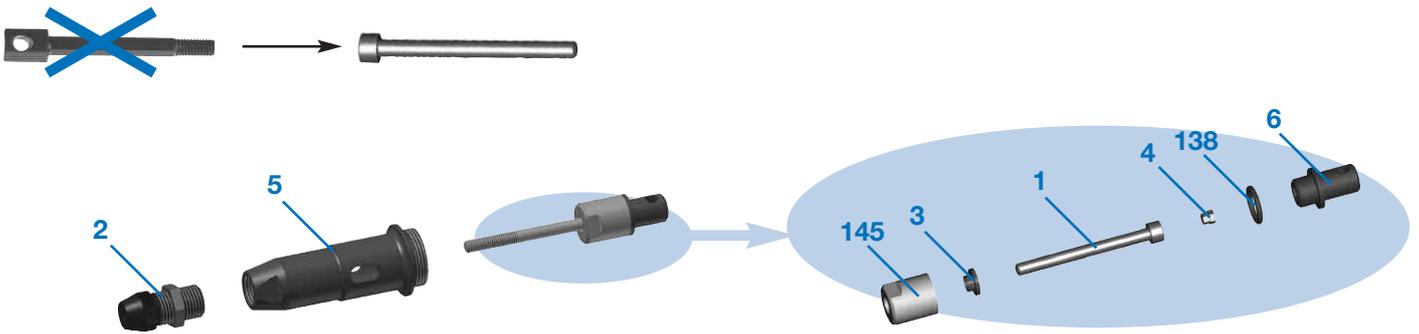
| | | |
|------------------------------|--|----------------|
| RIVKLE® P2007 / P2005 | | 236 114 00 970 |
| RIVKLE® B2007 | | 236 166 00 309 |



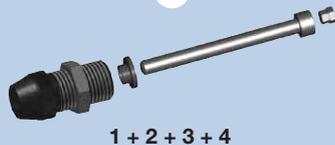
| | | | |
|--|----------|----------------------|--------------------------------------|
| | | RIVKLE® P2005 | RIVKLE® P2007/P2007PN/P3007PN |
| | + 50 mm | | 282 590 10 984 |
| | + 100 mm | | 282 590 10 985 |
| | + 150 mm | | 282 590 10 986 |
| | + 50 mm | 282 590 10 789 | 282 590 10 791 |
| | + 100 mm | 282 590 10 790 | 282 590 10 792 |



RIVKLE® – Hydropneumatic and battery-powered setting tools



KIT = A + B + C

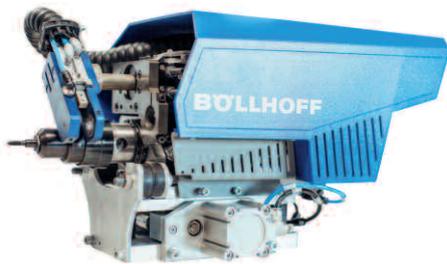
| | A | | B | | C |
|----|--|----------------|--|----------------|--|
| |  B2007 5 = original nose | |  145 + 138 + 6 | |  1 + 2 + 3 + 4 |
| | RIVKLE® P2005 | RIVKLE® P2007 | P2007 + P2005 | RIVKLE® B2007 | |
| M3 | | | | | 236 803 03 000 |
| M4 | | | | | 236 803 04 000 |
| M5 | 236 153 00 043 | 236 803 00 005 | 236 803 00 216 | 236 803 00 216 | 236 803 05 000 |
| M6 | | | | | 236 803 06 000 |
| M8 | | | | | 236 803 08 000 |

| |  ISO4762 DIN912 |  2 |  3 |  4 |
|----|---|---|--|--|
| M3 | M3 x 60 236 803 03 020 | 236 113 03 030 | 236 803 03 040 | 236 803 03 010 |
| M4 | M4 x 60 236 803 04 020 | 236 113 04 030 | 236 803 04 040 | 236 803 04 010 |
| M5 | M5 x 65 236 803 05 020 | 236 113 05 030 | 236 803 05 040 | 236 803 05 010 |
| M6 | M6 x 65 236 803 06 020 | 236 113 06 030 | 236 803 06 040 | 236 803 06 010 |
| M8 | M8 x 70 236 803 08 020 | 236 113 08 030 | - | 236 803 08 010 |

RIVKLE® – Special installation machines

**RIVKLE® EPK C / RIVKLE® EPK HP**

Hydraulic pneumatic tool with process control

**RIVKLE® Automation**

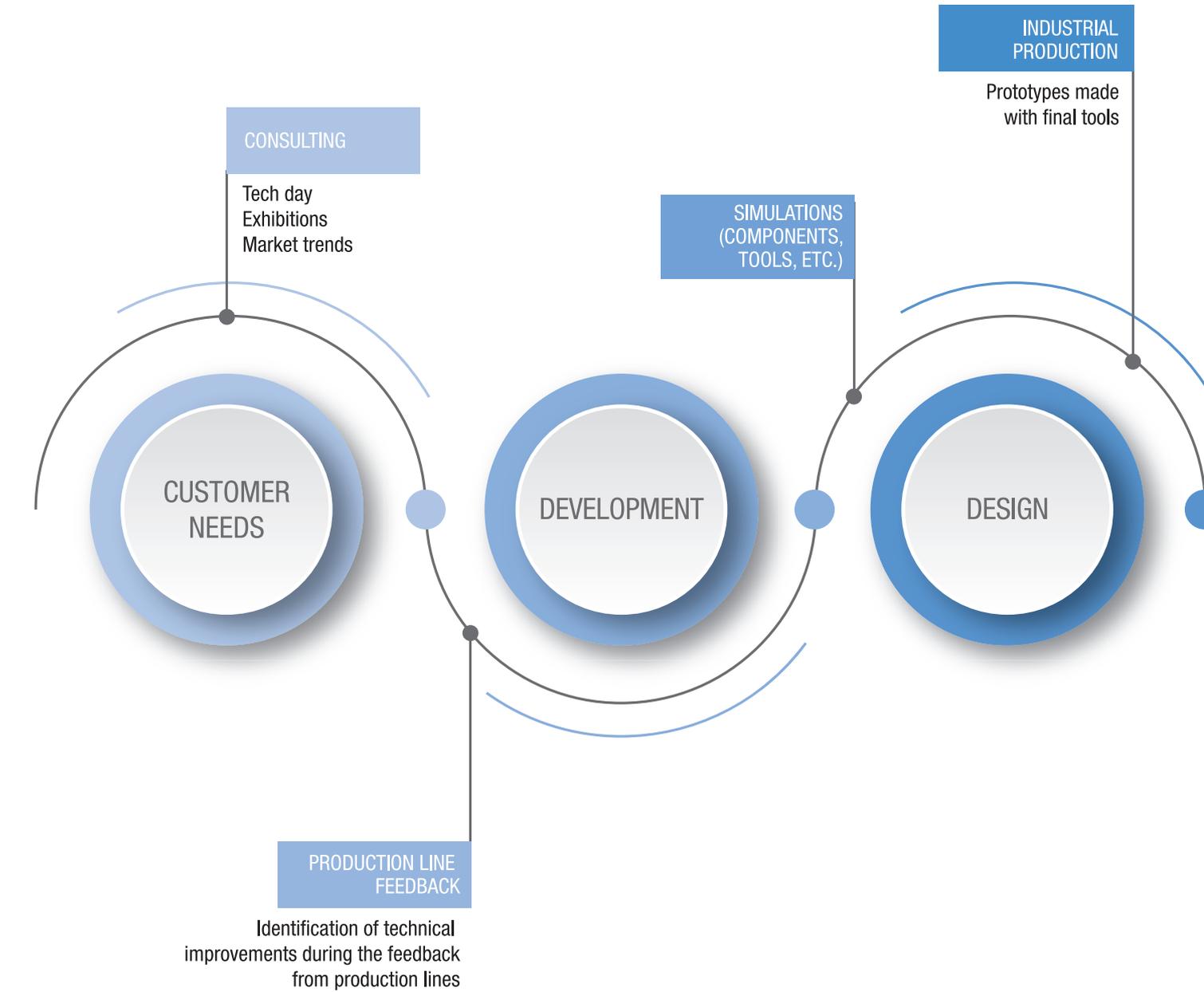
Setting head with automatic loading system

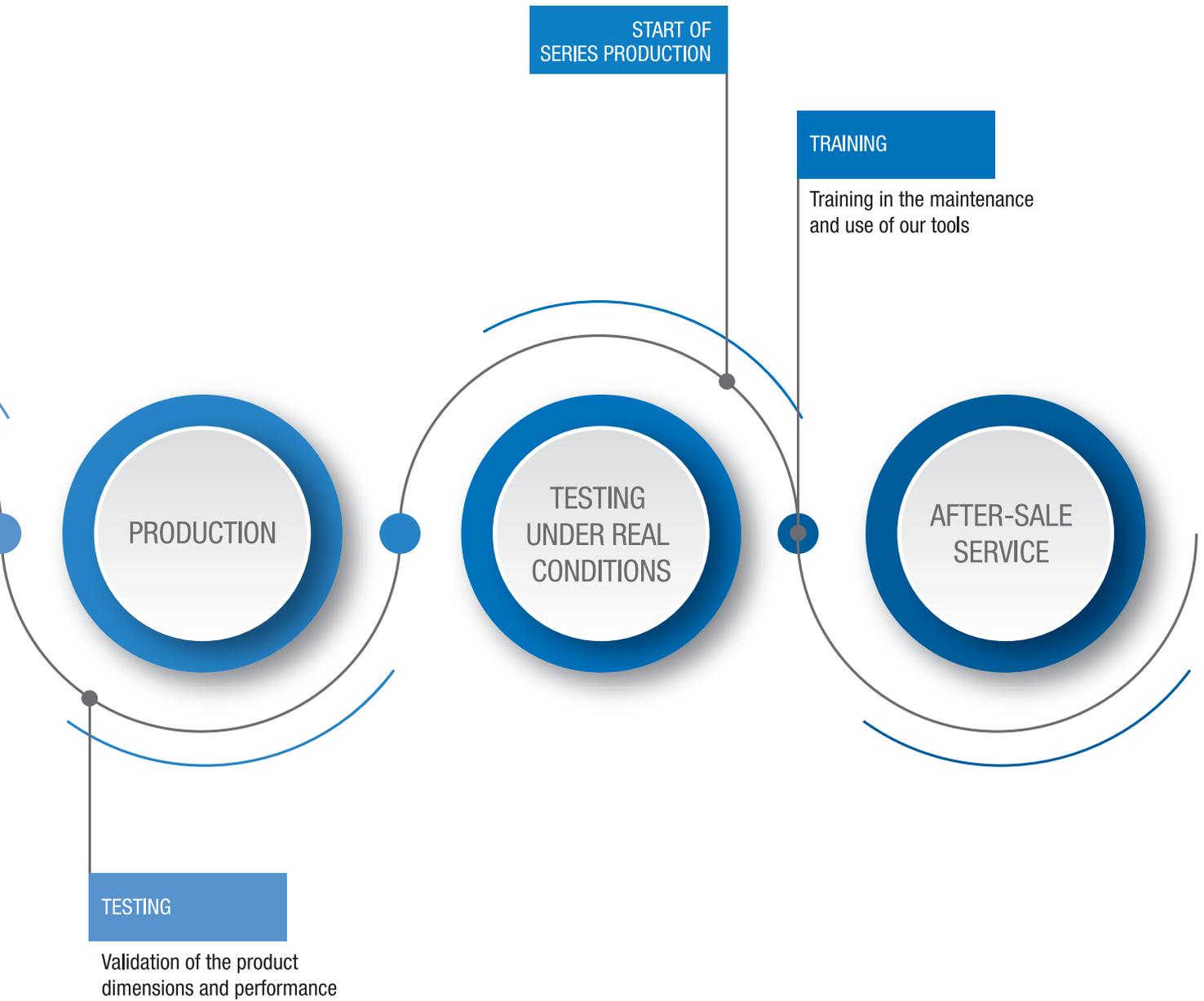
A dedicated brochure has been created for those products, please contact BÖLLHOFF.

BÖLLHOFF is the only supplier for your assembly components and associated tools

BÖLLHOFF 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.





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