

# BÖLLHOFF

**RIVKLE®**

Blind rivet nuts and studs

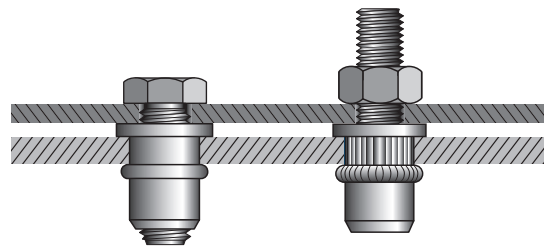




	<b>Principle and function</b>	Page 4
	<b>Standard RIVKLE®</b> blind rivet nuts	14
	<b>RIVKLE® HRT</b> - High Resistance Thread	34
	<b>RIVKLE® SFC</b> - For Fiber-reinforced polymer	36
	<b>RIVKLE® PN</b> - Ultimate pull-out force	38
	<b>RIVKLE® Studs</b>	40
	<b>RIVKLE® - Waterproof</b>	44
	<b>RIVKLE® - Special designs</b>	46
	<b>RIVKLE® - Setting tools</b>	48
	<b>Part number index</b>	62

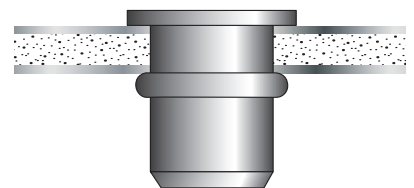
## RIVKLE® – Functions

RIVKLE® blind rivet nuts and studs are the most versatile solution for adding a strong reusable internal or external thread to thin-walled work pieces, with aesthetic appearance.



### Compatible with all substrates

(steel, magnesium, aluminum, plastics, composites etc.).



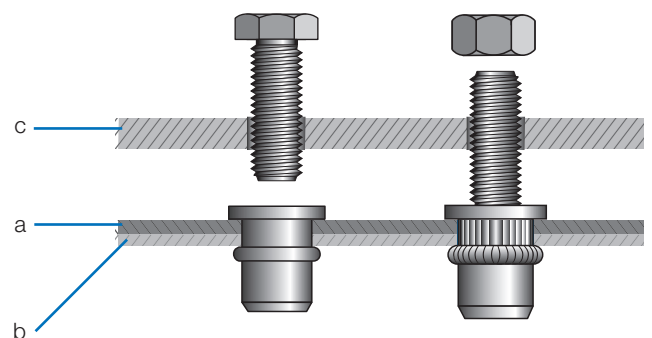
### Corrosion protected

No additional finishing is required after setting, even with coated or painted components.



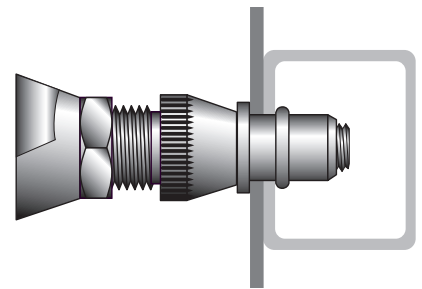
### Provides 2 functions:

- Rivet: enables two or more sheets (a & b) of dissimilar materials (plastic & metal...) to be joined
- Thread: enables an additional component (c) to be assembled and reused, if required.

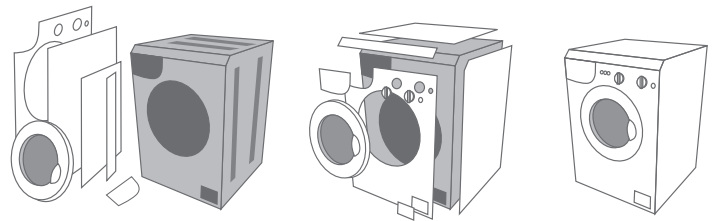


# RIVKLE® – Process

RIVKLE® is installed using a single-sided setting technique. It's often the only fastening solution for hollow sections, housings or where access is limited to only one side of a component. This simplifies the design avoiding any need for a dedicated access hole in the rear panel.



RIVKLE® blind rivet nuts and studs **can be fitted at any stage** so bringing extreme flexibility to your production process. RIVKLE® is a captive system.



## Easy and simple solution:

- Can be installed without operator training
- Several levels of installation process control are available to enhance quality management
- Easy and non destructive testing of installed RIVKLE®

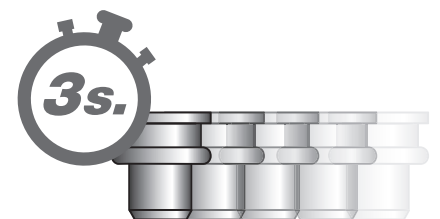


## Safe and ecologic solution:

- No fumes (no exhaust needed)
- No heat (no protection needed)  
=> no heat impact on application (surface treatment, deformation, material resistance...)
- No pollution
- No risk to the operator



- Fast, reliable, repeatable and cost competitive process (total emplace cost)
- Optimized installation possible in under 3 seconds
- Quick tooling exchange and adjustment operation (for example: M6 to M8)
- Entire range of setting equipment, from manual to full automatic process is available

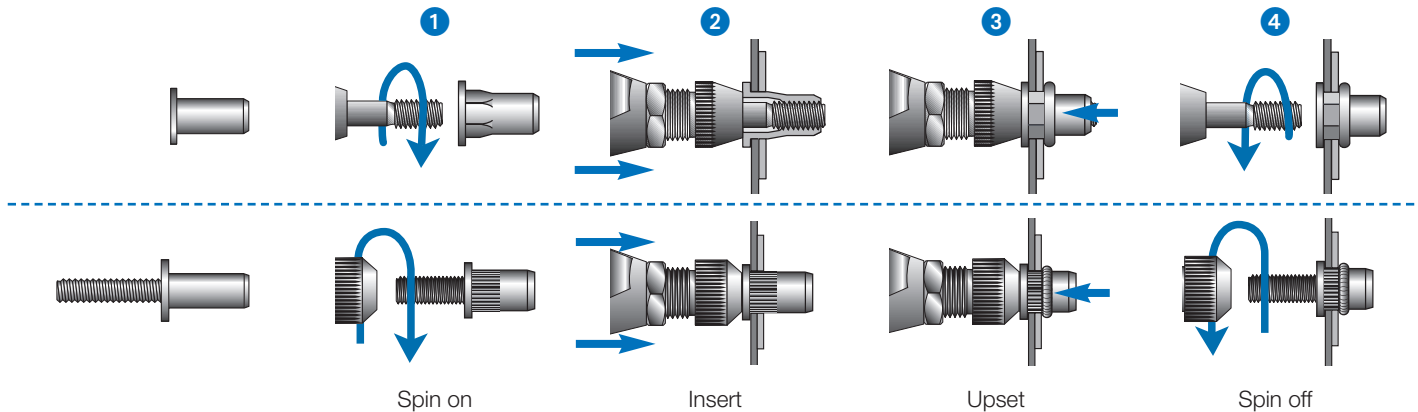


# RIVKLE® blind rivet nut – Setting methods

The BÖLLHOFF recommended installation is the “pull method”.  
RIVKLE® can also be installed using the “press method”.

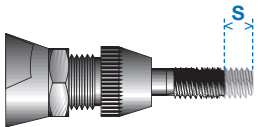
## 1 - Pull methods

The “pull method” comprises Spin on **1**, Insert **2**, Upset **3** and Spin off **4** cycles.

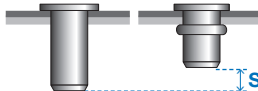


## 2 - Pull setting methods

### 2-1 Stroke setting method: control of the assembly tool displacement distance



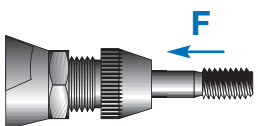
The operator sets the stroke on the setting tool in accordance with the values shown in the RIVKLE® catalogue tables. The setting tool exerts the maximum pressure and automatically stops when the preset stroke is reached (mechanical stop).



This represents the original way to install a RIVKLE® and remains the best choice today for stainless steel inserts.

- Advantages:**
- Fast and simple process
  - Ideal for assemblies with no variation in sheet thickness

### 2-2 Pressure setting method: force controlled installation



In the stroke setting method, the tool delivers maximum and constant force over the full stroke of the mandrel. Where there is a wide variation in thickness of the workpiece there is a definite risk that a blind rivet nut may not set properly, or become damaged due to the setting mandrel damaging the RIVKLE® thread. In this situation there will be premature wear of the mandrel.

This phenomenon is eliminated with the pressure setting method as the setting force is controlled irrespective of the thickness of the workpiece.

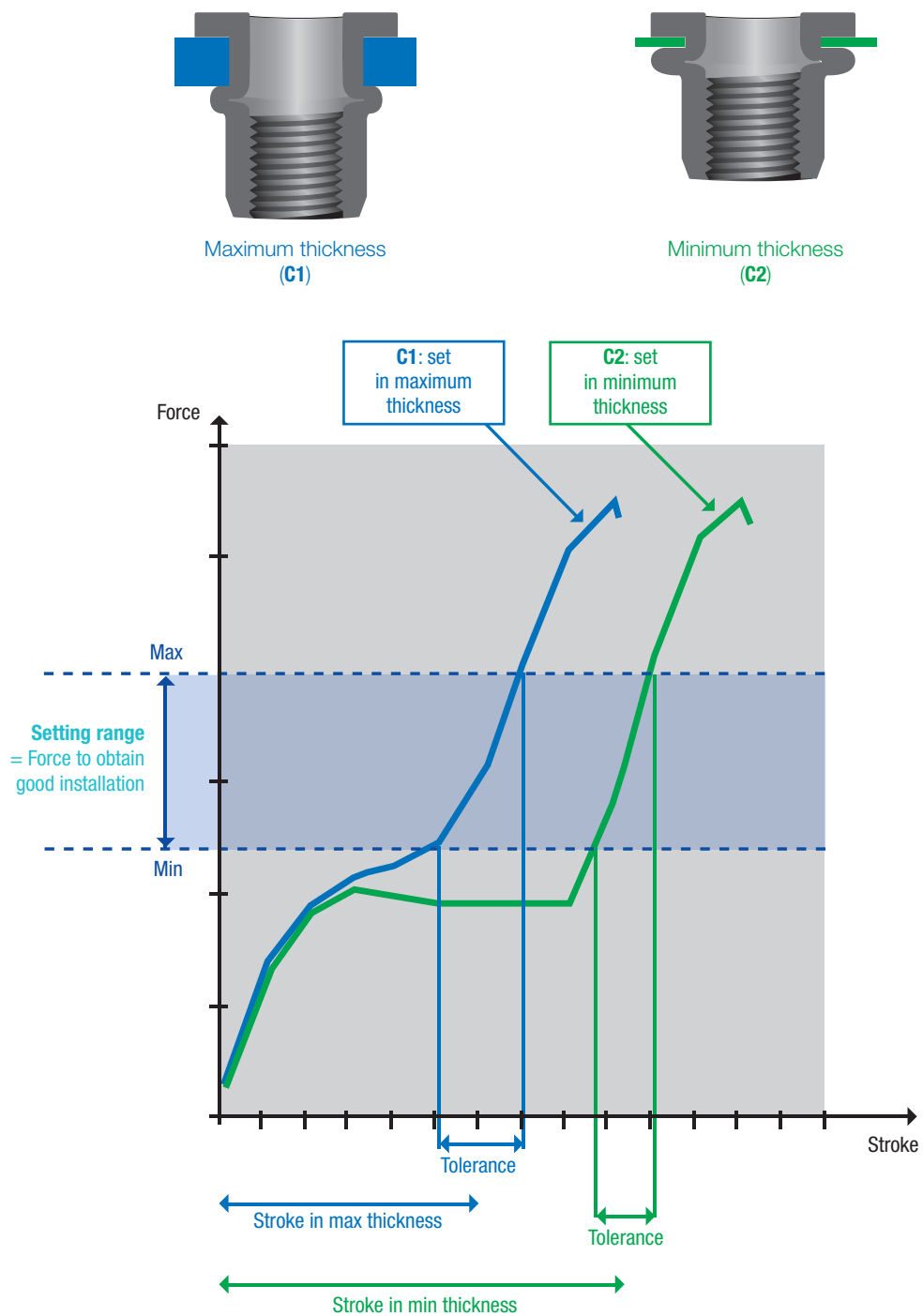
This setting principle is particularly well suited to workpieces with variable thickness (plastic parts, various layers...) and provides consistent setting quality.

- Advantages:**
- Optimised setting into panels with thickness variations
  - Possibility to set the same RIVKLE® more than once
  - Permits quality control (force indicator...)
  - Limit the risk of mandrel breakage
  - Can also set different types of RIVKLE® with one tool and one single setup

### 3 - Installation force value

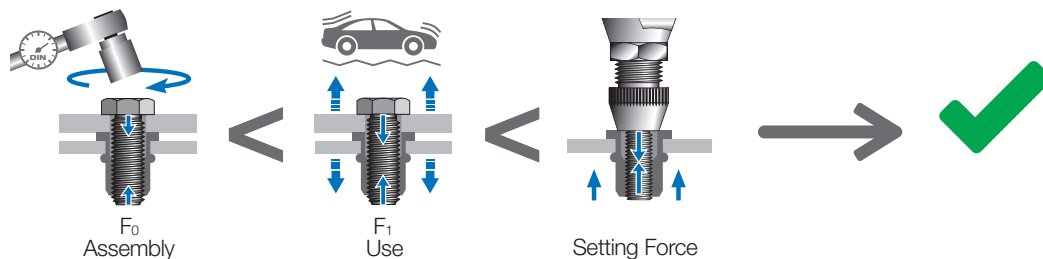
The recommended setting force is dependent upon a combination of information coming from RIVKLE® parameters (force to obtain a good installation) and screwing parameters (tensile strength after assembly and during service).

#### 3-1 RIVKLE® parameters



## 3-2 SCREW parameters

When a assembly is in use, external influences generally increase the tensile strength in the screw ( $F_1 > F_0$ ).



With correct installation, RIVKLE® exhibits the same behaviour as a standard nut.

### Consequences:

1. BÖLLHOFF recommends a setting force higher than the mating screw clamp load, in order to ensure that no re-setting occurs during the life of the RIVKLE®.
2. BÖLLHOFF does not recommend the use of mechanical screw-drivers for installing RIVKLE®.



### 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
<b>M3</b>	3,5	3,5	-	1,9
<b>M4</b>	5,5	5,5	9,5	3,0
<b>M5</b>	8,0	8,0	12,0	3,8
<b>M6</b>	12,0	13,0	15,0	5,5
<b>M8</b>	18,0	20,0	20,0	10,0
<b>M10</b>	21,0	22,0	-	12,0
<b>M12</b>	23,0	28,0	-	15,0
<b>M14</b>	50,0	-	-	-



## RIVKLE® – Additional services

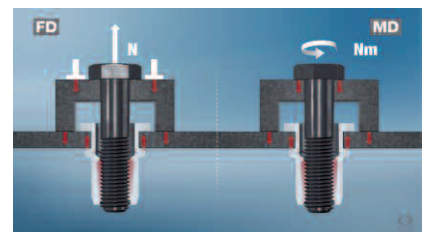
### CAD

Free-of-charge download of 3D drawings from our ranges HELICOIL®, AMTEC®, SEAL LOCK®, KOBSERT and RIVKLE®. Integrate them directly into your design software.



### Laboratory testing

BÖLLHOFF offers the services of our own certified laboratory to assess and report on the performance of our products when installed into your components.



YouTube RIVKLE Test

### RIVKLE® Plus 24H

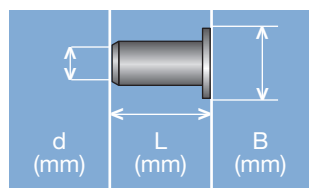
This is the core RIVKLE® range. These items are shipped within 24 hours of your order being accepted. You can rest assured that your order will be delivered without delay.

**RIVKLE® Plus**  
24H

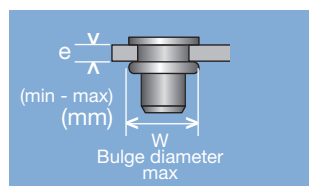
### Training

From our certified training centre, BÖLLHOFF imparts expertise to your Team (production, maintenance, process) to improve your experience when using either our components or tools (theory & practice).





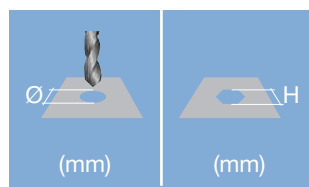
**Head diameter**  
**Overall length**  
**Thread size**



## Grip range

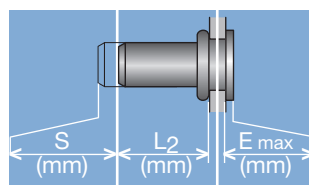
Defines the range of total thickness of the customers part (even if it consists of more than one layer)

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



## Hole geometry

If round → diameter  
If hexagonal → width across flats



## Head projection after setting

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

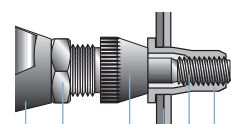
## Blind side projection after installation

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

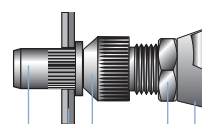
## Setting stroke

Difference of total length before and after installation

## RIVKLE® Nut



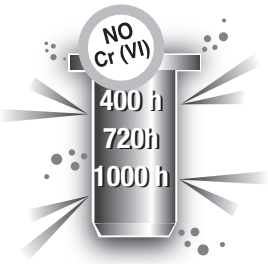
## RIVKLE® Stud



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

\*in accordance to chosen RIVKLE®\*

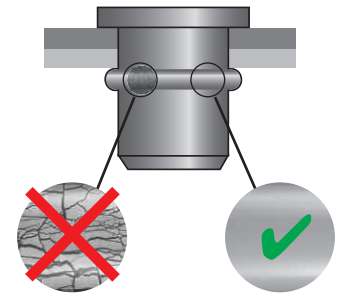
## RIVKLE® – Material and surface treatment



	EN		USA
	Description	Num.	
<b>Steel</b>	C10C	1.0214	C1010
	C4C	1.0303	C1005
	11SMnPb30	1.0718	12L13
	20MnB5	1.5530	10B22
	X6CrNiCu18-9-2	1.4570 (A1)	AISI 303K
<b>Stainless steel</b>	X3CrNiCu18-9-4	1.4567 (A2)	AISI 302 HQ
	X3CrNiCuMo17-11-3-2	1.4578 (A4)	AISI 316 Cu
	X6Cr17*	1.4016*	AISI 430*
	AW-ALMg2,5	AW-5052	5052
<b>Aluminium</b>	EN AW-Al Mg1SiBi/EN	AW-60604	A/6064

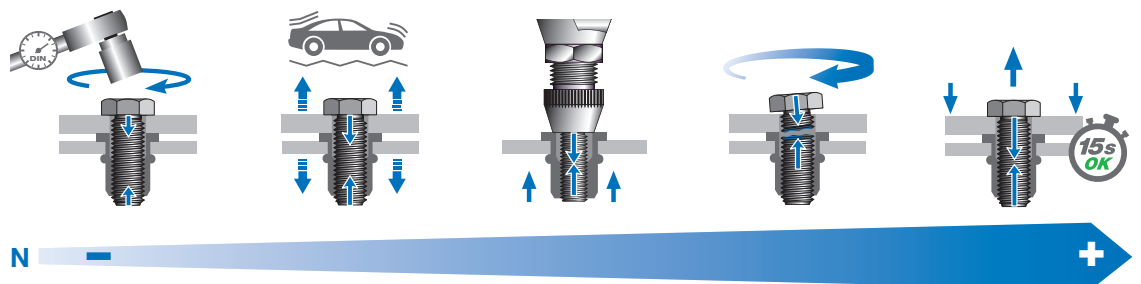
\*RIVKLE® PN






























































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.



## RIVKLE® – A real nut

A standard nut, when used with its equivalent screw grade (ex: 8.8 class screw with class 8 nut), must provide strength characteristics as dictated by recognised standards (ISO 898; ISO 16047; NFE 25-030, VDI2230). For example: In the case of over-tightening the joint then the screw must fail first leaving a re-usable nut. RIVKLE® blind rivet nuts have been designed to adhere strictly to these rules.



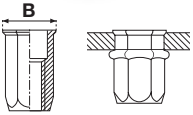
Studs														
		Head			Body					Body end		hole		
		flat	thin	counter-sunk	plain	knurled	hexagonal	half-hex	slotted	open	closed			
STEEL			•				•			M3 - M12	M4 - M10		14	
		•						•		M4 - M8			15	
			•					•		M4 - M8			15	
		•					•			M4 - M12	M4 - M10		16	
			•			•				M3 - M12	M3 - M12		17	
		•				•				M3 - M10	M4 - M10		18	
				•		•				M3 - M10	M4 - M10		19	
		•			•					M3 - M14	M3 - M12		20-21	
			•		•					M3 - M8			21	
				•	•					M3 - M12	M3 - M12		22	
	HRT		•					•			M7 - M12			35
	SFC		•			•					M5 - M8			37
	PN		•						•		M4 - M10			39
STAINLESS STEEL			•					•		M3 - M12	M3 - M12		24	
		•						•		M3 - M12	M3 - M12		25	
			•			•				M3 - M12	M3 - M12		26	
		•				•				M3 - M12	M3 - M12		27	
				•		•				M3 - M12	M3 - M12		28	
				•	•					M4 - M10			29	
			•		•					M3 - M8			29	
		•			•					M4 - M10			29	
	316L / A4		•			•					M4 - M8	M4 - M8		30
	316L / A4			•		•				M5 - M8	M4 - M8		30-31	
	316L / A4		•					•			M4 - M8			31
	316L / A4			•				•			M4 - M8			31
	SFC		•			•					M6			37
	PN		•						•		M4 - M10			39
	ALU		•			•					M3 - M10	M3 - M10		32
				•	•					M3 - M10	M3 - M10		33	
HRT			•				•			M5 - M8			35	

# RIVKLE® – Choice

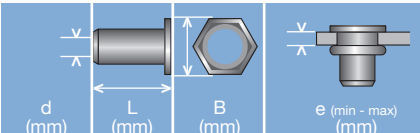
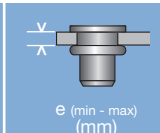
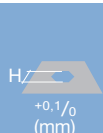
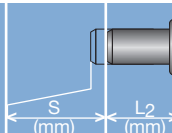
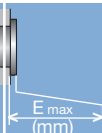


PLASTICS			METAL									
	<b>RIVKLE® SFC</b>		<b>RIVKLE® PN</b>		<b>8.8 max</b>				<b>10.9 / 12.9</b>		<b>RIVKLE® HRT</b>	

# RIVKLE® – Blind rivet nuts - Steel

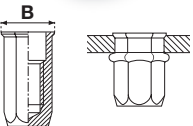
## Steel | Thin head | Hexagonal | Open



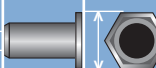
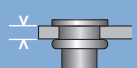

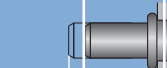





**RIVKLE® Plus**  
24H

								
d (mm)	L (mm)	B (mm)	e (min - max) (mm)	+0.1/0 (mm)	S (mm)	L2 (mm)	E max (mm)	
M3	10,25	5,0	1,5 - 2,5	5,0	S=3,8-e	6,0	0,3	343 41 030 025
M4	10,8	6,5	0,5 - 3,0	6,0	S=4,5-e	6,2	0,4	343 41 040 030
	13,5		3,0 - 5,5		S=7,2-e			343 41 040 055
M5	13,8	7,85	0,5 - 3,0	7,0	S=4,5-e	9,0	0,45	343 41 050 030
	16,5		3,0 - 5,5		S=7,2-e			343 41 050 055
M6	16,2	9,95	0,5 - 3,5	9,0	S=5,5-e	10,2	0,45	343 41 060 030
	19,25		3,5 - 6,0		S=8,5-e			343 41 060 060
M8	17,8	11,75	0,5 - 3,5	11,0	S=5,5-e	12,5	0,4	343 41 080 030
	20,8		3,5 - 6,0		S=8,5-e			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	16,0	0,85	343 41 120 040
	27,7		4,0 - 8,0		S=13,5-e			14,0

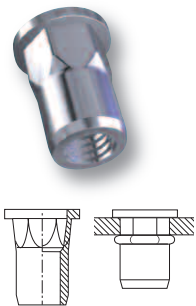
## Steel | Thin head | Hexagonal | Closed



**RIVKLE® Plus**  
24H

									
d (mm)	L (mm)	B (mm)	e (min - max) (mm)	H (mm)	+0,1/0 (mm)	S (mm)	L2 (mm)	E max (mm)	
M4	17,8	6,5	0,5 - 3,0	6,0	S=4,5-e	13,0	0,4		343 51 040 030
M5	20,2	7,85	0,5 - 3,0	7,0	S=4,5-e	15,0	0,45		343 51 050 030
M6	23,2	9,95	0,5 - 3,5	9,0	S=5,8-e	17,2	0,45		343 51 060 030
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	11,75	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

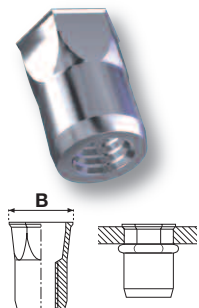
Steel | Flat head | Semi-hexagonal | Open



**RIVKLE® Plus**  
24H

<b>M4</b>	11,0	11,0	9,0	0,5 - 3,0	6,0	S=4,3-e	5,8	1,0	<b>233 41</b> 040 230
<b>M5</b>	13,0	13,0	10,0	0,5 - 3,0	7,0	S=4,7-e	7,3	1,0	<b>233 41</b> 050 230
<b>M6</b>	14,25	14,25	13,0	0,5 - 3,0	9,0	S=5,0-e	8,0	1,5	<b>233 41</b> 060 230
<b>M8</b>	18,0	18,0	16,0	0,5 - 3,0	11,0	S=5,3-e	11,2	1,5	<b>233 41</b> 080 230

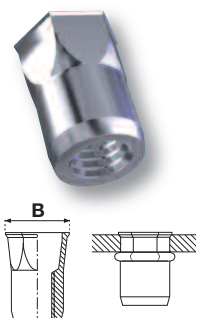
Steel | Thin head | Semi-hexagonal | Open



**RIVKLE® Plus**  
24H

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

Steel | Thin head | Semi-hexagonal | Open



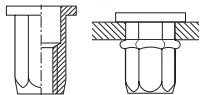
**RIVKLE® Plus**  
24H

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

**inch** For holes with imperial dimensions










## RIVKLE® – Blind rivet nuts - Steel

Steel | Flat head | Hexagonal | Open

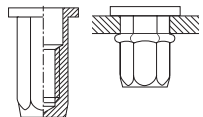


**RIVKLE® Plus**

24H


d (mm)	L (mm)	B (mm)	e (min - max) (mm)	H/2 +0.1/0 (mm)	S (mm)	L2 (mm)	E (mm)	
<b>M4</b>	9,8	9,0	0,5 - 2,0	6,0	S=3,5-e	5,8	1,0	 <b>233 41</b> 040 020
<b>M5</b>	13,7	10,0	0,5 - 3,0	7,0	S=5,0-e	8,0	1,0	 <b>233 41</b> 050 030
	14,3		2,5 - 4,5		S=6,6-e	6,7		<b>233 41</b> 050 045
<b>M6</b>	15,7	12,9	0,5 - 3,0	9,0	S=4,5-e	10,0	1,5	 <b>233 41</b> 060 030
	18,7		3,0 - 5,5		S=7,5-e			 <b>233 41</b> 060 055
<b>M8</b>	17,75	16,0	0,5 - 3,0	11,0	S=5,5-e	11,0	1,5	 <b>233 41</b> 080 030
	20,75		3,0 - 5,5		S=8,5-e			 <b>233 41</b> 080 055
<b>M10</b>	22,8	19,0	1,0 - 3,5	13,0	S=6,0-e	15,0	2,0	 <b>233 41</b> 100 035
	25,45		3,5 - 6,0		S=8,7-e			 <b>233 41</b> 100 060
<b>M12</b>	26,8	23,0	1,0 - 4,0	16,0	S=7,7-e	17,0	2,0	 <b>233 41</b> 120 030

Steel | Flat head | Hexagonal | Closed



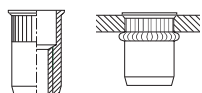
**RIVKLE® Plus**

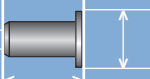
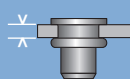
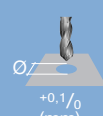
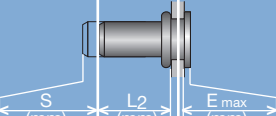

24H

d (mm)	L (mm)	B (mm)	e (min - max) (mm)	H/2 +0.1/0 (mm)	S (mm)	L2 (mm)	E (mm)	
<b>M4</b>	14,8	9,0	0,5 - 2,0	6,0	S=4,0-e	10,0	1,0	<b>233 51</b> 040 020
<b>M5</b>	19,7	10,0	0,5 - 3,0	7,0	S=5,0-e	14,0	1,0	<b>233 51</b> 050 030
<b>M6</b>	22,8	12,9	0,5 - 3,0	9,0	S=5,2-e	17,0	1,5	 <b>233 51</b> 060 030
<b>M8</b>	25,8	16,0	0,5 - 3,0	11,0	S=5,5-e	19,0	1,5	<b>233 51</b> 080 030
	28,7		3,0 - 5,5		S=8,3-e			<b>233 51</b> 080 055
<b>M10</b>	32,75	19,0	1,0 - 3,5	13,0	S=6,0-e	25,0	2,0	<b>233 51</b> 100 035

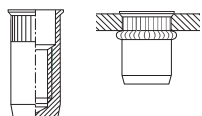


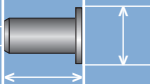
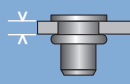

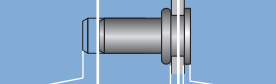

## Steel | Thin head | Knurled | Open


**RIVKLE® Plus**


 d (mm) L (mm) B (mm)	 e (min - max) (mm)	 Ø +0.1/0 (mm)	 S (mm) L2 (mm) E max (mm)						
<b>M3</b>	9,0	5,7	0,5 - 2,0	5,0	S=3,6-e	5,5	0,4	<b>343 67 030 020</b>	
	9,8	5,75	1,5 - 3,0		S=3,6-e	5,7		<b>343 67 030 030</b>	
<b>M4</b>	10,7	6,6	0,5 - 3,0	6,0	S=4,9-e	5,8	0,3	<b>343 67 040 230</b>	
	11,9		2,5 - 4,0		S=5,6-e	5,9		0,4	<b>343 67 040 040</b>
<b>M5</b>	12,75	8,0	0,5 - 3,0	7,0	S=5,3-e	7,4	0,3	<b>343 67 050 230</b>	
	13,8	7,6	2,5 - 4,0		S=5,8-e	7,6		0,4	<b>343 67 050 040</b>
<b>M6</b>	13,8	10,0	0,5 - 3,0	9,0	S=5,1-e	8,5	0,4	<b>343 67 060 230</b>	
	15,3	9,6	3,0 - 4,5		S=6,6-e			0,3	<b>343 67 060 045</b>
	16,9		4,5 - 6,0		S=8,2-e				<b>343 67 060 060</b>
<b>M8</b>	17,25	12,0	0,5 - 3,0	11,0	S=6,0-e	11,1	0,4	<b>343 67 080 230</b>	
	18,9	11,8	3,0 - 4,5		S=6,7-e	11,8		<b>343 67 080 045</b>	
	20,5		4,5 - 6,0		S=8,3-e			<b>343 67 080 060</b>	
<b>M10</b>	20,75	14,0	0,7 - 3,5	13,0	S=6,5-e	14,0	0,5	<b>343 67 100 235</b>	
	21,9	13,8	3,0 - 4,5		S=7,5-e			0,4	<b>343 67 100 045</b>
	23,5		4,5 - 6,0		S=9,1-e				<b>343 67 100 060</b>
<b>M12</b>	25,8	17,0	3,0 - 4,5	16,0	S=7,5-e	17,8	0,5	<b>343 67 120 045</b>	
	27,4		4,5 - 6,0		S=9,1-e			<b>343 67 120 060</b>	

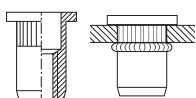
## Steel | Thin head | Knurled | Closed



								
d (mm)	L (mm)	B (mm)	e (min - max) (mm)	Ø +0.1/0 (mm)	S (mm)	L2 (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		1,5 - 3,0		S=3,6-e			343 77 030 030
M4	17,7	6,6	0,5 - 3,0	6,0	S=4,9-e	12,8	0,3	343 77 040 030
	16,9		2,5 - 4,0		S=5,7-e			10,9
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		2,5 - 4,0		S=6,0-e			13,5
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		S=6,6-e	13,5	0,3	343 77 060 045
	21,9		4,5 - 6,0		S=7,3-e	13,6		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		S=7,4-e	19,0	0,8	343 77 080 040
	24,9	11,8	3,0 - 4,5		S=6,7-e	17,8	0,4	343 77 080 045
	26,5		4,5 - 6,0		S=8,3-e			343 77 080 060
M10	28,3	13,8	0,8 - 3,0	13,0	S=5,5-e	22,3	0,5	343 77 100 030
	29,9		3,0 - 4,5		S=7,1-e			343 77 100 045
	31,5		4,5 - 6,0		S=8,7-e			343 77 100 060
M12	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		S=7,9-e	26,4		343 77 120 045
	36,4		4,5 - 6,0		S=9,6-e			343 77 120 060

# RIVKLE® – Blind rivet nuts - Steel

Steel | Flat head | Knurled | Open

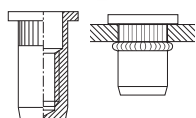


**RIVKLE® Plus**



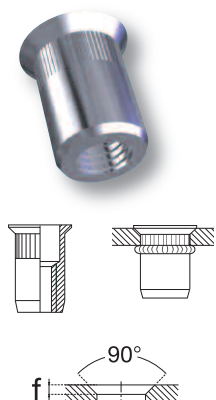
d (mm)	L (mm)	B (mm)	e (min - max) (mm)	Ø +0.1/0 (mm)	S (mm)	L2 (mm)	E (mm)	
<b>M3</b>	8,8	7,0	0,50 - 1,00	5,0	S=2,0-e	5,8	1,0	<b>233 07 030 100</b>
	9,6		1,00 - 1,75		S=2,8-e	6,0		<b>233 07 030 175</b>
	10,4		1,75 - 2,50		S=3,4-e	6,1		<b>233 07 030 250</b>
	11,2		2,50 - 3,25		S=4,1-e	6,1		<b>233 07 030 325</b>
<b>M4</b>	11,0	9,0	0,50 - 3,00	6,0	S=4,3-e	5,8	1,0	<b>233 07 040 230</b>
	11,6	8,0	2,50 - 3,25		S=4,6-e	6,0		<b>233 07 040 325</b>
<b>M5</b>	12,75	10,0	0,50 - 3,00	7,0	S=4,7-e	7,3	1,0	<b>233 07 050 230</b>
	14,7		3,00 - 4,00		S=6,0-e	8,0		<b>233 07 050 040</b>
<b>M6</b>	14,3	13,0	0,50 - 3,00	9,0	S=5,0-e	8,0	1,5	<b>233 07 060 230</b>
	16,9		3,00 - 5,50		S=7,5-e	8,2		<b>233 07 060 255</b>
<b>M8</b>	17,7	16,0	0,50 - 3,00	11,0	S=5,5-e	11,0	1,5	<b>233 07 080 230</b>
	20,4		3,00 - 5,50		S=8,1-e			<b>233 07 080 255</b>
<b>M10</b>	21,8	19,0	0,70 - 3,50	13,0	S=6,1-e	13,9	2,0	<b>233 07 100 235</b>
	24,0		3,00 - 4,50		S=7,4-e	14,6		<b>233 07 100 450</b>
	25,6		4,50 - 6,00		S=8,9-e	14,5		<b>233 07 100 600</b>

Steel | Flat head | Knurled | Closed

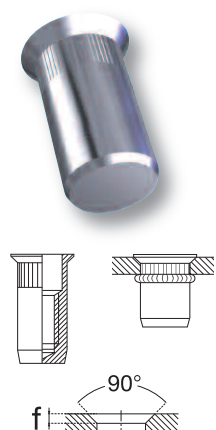


d (mm)	L (mm)	B (mm)	e (min - max) (mm)	Ø +0.1/0 (mm)	S (mm)	L2 (mm)	E (mm)	
<b>M4</b>	15,0	8,0	1,00 - 1,75	6,0	S=3,0-e	11,0	1,0	<b>233 27 040 175</b>
	15,8		1,75 - 2,50		S=3,5-e	11,3		<b>233 27 040 250</b>
	16,6		2,50 - 3,25		S=4,6-e	11,0		<b>233 27 040 325</b>
<b>M5</b>	17,6	9,0	0,50 - 1,00	7,0	S=2,0-e	14,6	1,0	<b>233 27 050 100</b>
	18,7		1,00 - 2,00		S=3,1-e			<b>233 27 050 200</b>
	19,8		2,00 - 3,00		S=4,2-e			<b>233 27 050 300</b>
	21,0		3,00 - 4,00		S=5,3-e	14,7		<b>233 27 050 400</b>
<b>M6</b>	21,5	13,0	0,50 - 3,00	9,1	S=4,5-e	15,0	1,5	<b>233 27 060 030</b>
	25,2	11,0	3,00 - 4,50	9,0	S=5,3-e	18,4		<b>233 27 060 450</b>
<b>M8</b>	26,5	14,0	2,00 - 3,50	11,0	S=5,5-e	19,5	1,5	<b>233 27 080 350</b>
	27,8		3,50 - 5,00		S=7,6-e	18,7		<b>233 27 080 500</b>
<b>M10</b>	30,8	16,0	1,00 - 1,50	13,0	S=4,5-e	25,0	2,0	<b>233 27 100 150</b>
	32,3		1,50 - 3,00		S=6,0-e			<b>233 27 100 300</b>
	37,5		4,50 - 6,00		S=9,0-e			<b>233 27 100 600</b>

## Steel | Countersunk head | Knurled | Open



	d (mm)	L (mm)	B (mm)	e (min - max) (mm)	+0,1/0 (mm)	f (mm)	S (mm)	L2 (mm)	E max (mm)	
<b>M3</b>		8,8	6,6	1,00 - 1,75	5,0	1,0	S=2,8-e	5,9	0,1	<b>233 17 030 175</b>
		9,6		1,75 - 2,50		1,2	S=3,5-e	6,0		<b>233 17 030 250</b>
		10,4	7,0	2,50 - 3,25			S=4,3-e			<b>233 17 030 325</b>
<b>M4</b>		9,2		1,00 - 1,75	6,0	1,0	S=2,8-e	6,3	0,1	<b>233 17 040 175</b>
		10,0	8,0	1,75 - 2,50		1,2	S=3,6-e	6,4		<b>233 17 040 250</b>
		10,8		2,50 - 3,25			S=4,3-e			<b>233 17 040 325</b>
<b>M5</b>		11,6	8,5	1,00 - 2,00	7,0	1,0	S=3,8-e	8,5	0,1	<b>233 17 050 200</b>
		12,7		1,50 - 3,00			S=3,8-e			<b>233 17 050 300</b>
		13,8	9,0	3,00 - 4,00		1,4	S=5,2-e			<b>233 17 050 400</b>
		14,9		4,00 - 5,00			S=6,3-e			<b>233 17 050 500</b>
<b>M6</b>		15,0		1,50 - 3,00	9,0	1,2	S=5,0-e	10,0	0,1	<b>233 17 060 300</b>
		16,6	10,6	3,00 - 4,50			S=6,5-e			<b>233 17 060 450</b>
		18,2		4,50 - 6,00		1,5	S=8,0-e			<b>233 17 060 600</b>
		19,8	11,0	6,00 - 7,50			S=9,4-e	10,3		<b>233 17 060 750</b>
<b>M8</b>		16,5	12,6	1,50 - 3,00	11,0	1,4	S=6,0-e	11,5	0,1	<b>233 17 080 300</b>
		18,1	13,6	3,00 - 4,50			S=7,5-e			<b>233 17 080 450</b>
		19,7		4,50 - 6,00		2,0	S=8,6-e	11,0		<b>233 17 080 600</b>
		21,3	14,0	6,00 - 7,50			S=10,5-e	11,5		<b>233 17 080 750</b>
<b>M10</b>		20,4	15,0	1,50 - 3,00	13,0	1,4	S=5,7-e	14,6	0,1	<b>233 17 100 300</b>
		22,0		3,00 - 4,50			S=7,3-e			<b>233 17 100 450</b>
		23,6	16,0	4,50 - 6,00		2,0	S=8,9-e			<b>233 17 100 600</b>

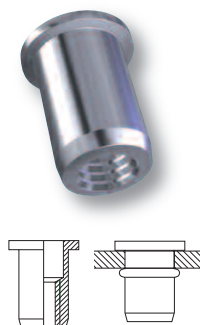


## Steel | Countersunk head | Knurled | Closed

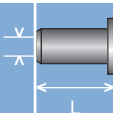
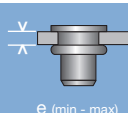
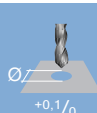
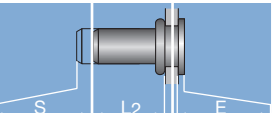

	d (mm)	L (mm)	B (mm)	e (min - max) (mm)	+0,1/0 (mm)	f (mm)	S (mm)	L2 (mm)	E max (mm)	
<b>M4</b>		14,2		1,00 - 1,75	6,0	1,0	S=2,8-e	11,3	0,1	<b>233 37 040 175</b>
		15,0	8,0	1,75 - 2,50		1,2	S=3,6-e			<b>233 37 040 250</b>
		15,8		2,50 - 3,25			S=4,7-e	11,5		<b>233 37 040 325</b>
<b>M5</b>		17,7	8,5	1,00 - 2,00	7,0	1,0	S=3,0-e	14,6	0,1	<b>233 37 050 200</b>
		18,8		2,00 - 3,00		1,4	S=4,1-e			<b>233 37 050 300</b>
		19,9	9,0	3,00 - 4,00		0,9	S=6,0-e			<b>233 37 050 400</b>
		21,0		3,00 - 5,00		1,4	S=6,3-e			<b>233 37 050 500</b>
<b>M6</b>		22,0		1,50 - 3,00	9,0	1,2	S=4,6-e	17,3	0,1	<b>233 37 060 300</b>
		23,6	11,0	3,00 - 4,50			S=6,2-e			<b>233 37 060 450</b>
		25,2		4,50 - 6,00		1,5	S=7,8-e			<b>233 37 060 600</b>
		26,8		6,00 - 7,50			S=9,4-e			<b>233 37 060 750</b>
<b>M8</b>		24,8	12,6	1,50 - 3,00	11,0	1,4	S=6,0-e	19,8	0,1	<b>233 37 080 300</b>
		26,4		3,00 - 4,50			S=7,0-e			<b>233 37 080 450</b>
		28,0	14,0	4,50 - 6,00		2,0	S=8,6-e			<b>233 37 080 600</b>
		29,6		6,00 - 7,50			S=10,2-e			<b>233 37 080 750</b>
<b>M10</b>		30,3	15,0	1,50 - 3,00	13,0	1,4	S=4,3-e	24,5	0,1	<b>233 37 100 300</b>
		31,9		3,00 - 4,50			S=5,3-e			<b>233 37 100 450</b>
		33,5	16,0	4,50 - 6,00		2,0	S=8,9-e			<b>233 37 100 600</b>

# RIVKLE® – Blind rivet nuts - Steel

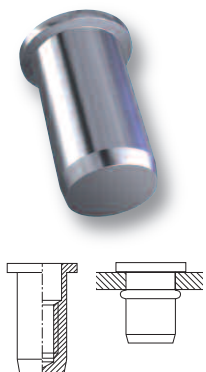
Steel | Flat head | Plain | Open

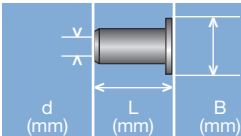
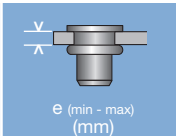
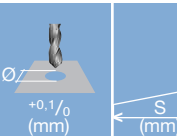
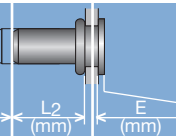



Steel

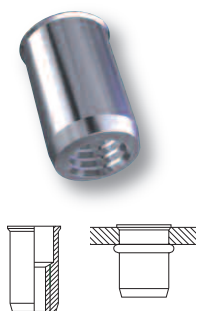
								
d (mm)	L (mm)	B (mm)	e (min - max) (mm)	Ø +0.1/0 (mm)	S (mm)	L2 (mm)	E (mm)	
<b>M3</b>	8,3	7,5	0,5 - 1,0	5,0	S=2,1-e	5,2	1,0	<b>233 01</b> 030 010
	8,7		1,0 - 1,5		S=3,2-e	4,8		<b>233 01</b> 030 015
	9,7		1,5 - 3,0		S=4,2-e	4,4		<b>233 01</b> 030 030
	11,2	3,0 - 4,5	S=5,8-e		4,7	<b>233 01</b> 030 045		
	12,9	7,4	4,5 - 6,0		S=7,2-e			<b>233 01</b> 030 060
<b>M4</b>	9,7	9,0	0,5 - 1,0	6,0	S=2,6-e	5,4	1,0	<b>233 01</b> 040 010
	10,2		1,0 - 2,0		S=3,6-e	5,6		<b>233 01</b> 040 020
	11,8		2,0 - 4,0		S=5,6-e	5,3		<b>233 01</b> 040 040
	13,8		4,0 - 6,0		S=7,5-e			<b>233 01</b> 040 060
<b>M5</b>	13,75	10,0	0,5 - 3,0	7,0	S=5,0-e	8,0	1,0	<b>233 01</b> 050 030
	16,7		3,0 - 5,5		S=7,5-e	9,1		<b>233 01</b> 050 055
	19,8		5,5 - 8,0		S=9,7-e	10,0		<b>233 01</b> 050 080
<b>M6</b>	15,8	13,0	0,5 - 3,0	9,0	S=5,2-e	10,0	1,5	<b>233 01</b> 060 030
	18,7		3,0 - 5,5		S=7,9-e	9,3		<b>233 01</b> 060 055
	21,7		5,5 - 8,0		S=10,2-e	11,0		<b>233 01</b> 060 080
<b>M8</b>	17,8	16,0	0,5 - 3,0	11,0	S=5,7-e	11,0	1,5	<b>233 01</b> 080 030
	20,8		3,0 - 5,5		S=8,2-e	11,7		<b>233 01</b> 080 055
	23,8		5,5 - 8,0		S=10,6-e	11,8		<b>233 01</b> 080 080
	26,8		8,0 - 10,5		S=13,5-e			<b>233 01</b> 080 105
<b>M10</b>	22,75	19,0	1,0 - 3,5	13,0	S=6,5-e	15,0	2,0	<b>233 01</b> 100 035
	25,75		3,5 - 6,0		S=9,0-e			<b>233 01</b> 100 060
	27,75		6,0 - 8,5		S=11,5-e			<b>233 01</b> 100 085
	31,8		8,5 - 11,0		S=14,0-e			<b>233 01</b> 100 110
<b>M12</b>	26,7	23,0	1,0 - 4,0	16,0	S=7,7-e	17,1	2,0	<b>233 01</b> 120 040
	29,7		4,0 - 7,0		S=10,7-e	17,5		<b>233 01</b> 120 070
	34,8		7,0 - 10,0		S=13,7-e			<b>233 01</b> 120 100
<b>M14</b>	35.5	24.0	4.5 - 6.0	18.0	S=9.8-e	23.2	2.5	<b>233 01</b> 140 600





## Steel | Flat head | Plain | Closed



								
d (mm)	L (mm)	B (mm)	e (min - max) (mm)	$\phi$ +0.1/0 (mm)	S (mm)	L2 (mm)	E (mm)	
M3	12,6	7,5	1,0 - 1,5	5,0	S=3,3-e	8,8	1,0	233 21 030 015
	14,3		1,5 - 3,0		S=4,1-e	9,2		233 21 030 030
	15,5		3,0 - 4,5		S=5,3-e			233 21 030 045
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	10,3		233 21 040 040
	18,8		4,0 - 6,0		S=7,6-e			233 21 040 060
M5	19,7	10,0	0,5 - 3,0	7,0	S=5,0-e	14,0	1,0	233 21 050 030
	22,7		3,0 - 5,5		S=7,5-e	15,1		233 21 050 055
	25,7		5,5 - 8,0		S=9,6-e			233 21 050 080
M6	22,7	13,0	0,5 - 3,0	9,0	S=4,9-e	16,3	1,5	233 21 060 030
	25,7		3,0 - 5,5		S=7,7-e	17,0		233 21 060 055
	28,7		5,5 - 8,0		S=10,2-e			233 21 060 080
M8	25,7	16,0	0,5 - 3,0	11,0	S=5,7-e	19,0	1,5	233 21 080 030
	28,7		3,0 - 5,5		S=8,2-e			233 21 080 055
	31,7		5,5 - 8,0		S=10,7-e	20,4		233 21 080 080
	34,8		8,0 - 10,5		S=12,9-e	20,4		233 21 080 105
M10	32,7	19,0	1,0 - 3,5	13,0	S=6,5-e	25,0	2,0	233 21 100 035
	35,8		3,5 - 6,0		S=8,4-e	25,4		233 21 100 060
	38,8		6,0 - 8,5		S=11,2-e	25,6		233 21 100 085
M12	38,8	23,0	1,0 - 4,0	16,0	S=7,2-e	29,6	2,0	233 21 120 040
	41,8		4,0 - 7,0		S=10,4-e	29,4		233 21 120 070

## Steel | Thin head | Plain | Open



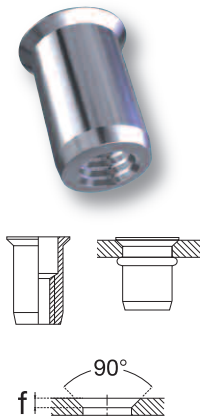
								
d (mm)	L (mm)	B (mm)	e (min - max) (mm)	Ø +0.1/0 (mm)	S (mm)	L2 (mm)	E max (mm)	
M3	8,4	5,2	0,5 - 1,5	4,7	S=2,8-e	5,5	0,4	343 01 030 150
M4	10,2	6,9	0,5 - 2,0	6,4	S=3,5-e	7,3	0,5	343 01 040 150
M5	11,25	7,6	0,5 - 3,0	7,1	S=4,5-e	7,3	0,6	343 01 050 150
M6	14,95	10,35	0,7 - 3,0	9,5	S=5,5-e	9,3	0,6	343 01 060 200
M8	16,6	11,5	0,8 - 4,5	10,5	S=7,5-e	9,6	0,7	343 01 080 450

**RIVKLE® Plus**  
24H

**inch** For holes with imperial dimensions

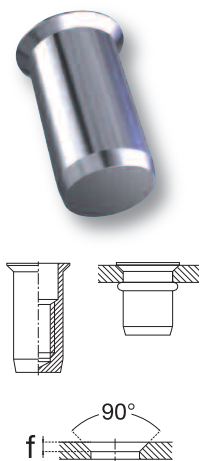
# RIVKLE® – Blind rivet nuts - Steel

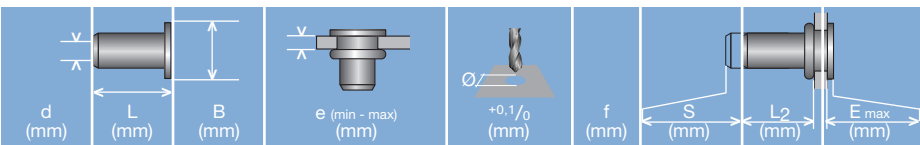

Steel | Countersunk head | Plain | Open



d (mm)	L (mm)	B (mm)	e (min - max) (mm)	$\varnothing$ +0.1/0 (mm)	f (mm)	S (mm)	L <sub>2</sub> (mm)	E max (mm)	
<b>M3</b>	8,3	6,6	1,0 - 1,5	5,0	0,9	S=2,8-e	5,4	1,0	<b>233 11 030 015</b>
	8,8		1,5 - 3,0		1,3	S=4,3-e	4,8	1,4	<b>233 11 030 030</b>
	10,3		0,5 - 3,0		1,4	S=4,9-e	4,7		<b>233 11 030 045</b>
	11,9	7,0	1,0 - 1,5		1,4	S=6,3-e	4,8		<b>233 11 030 060</b>
<b>M4</b>	9,8	7,2	1,0 - 2,0	6,0	0,9	S=3,7-e	5,4	0,1	<b>233 11 040 020</b>
	10,4	7,8	2,0 - 3,0		1,3	S=4,7-e			<b>233 11 040 030</b>
	11,8		3,0 - 5,0		1,3	S=6,6-e			<b>233 11 040 050</b>
	13,8	8,0	5,0 - 7,0		1,3	S=8,4-e	5,3		<b>233 11 040 070</b>
<b>M5</b>	13,7	9,2	1,5 - 4,0	7,0	1,5	S=6,5-e	8,0	0,1	<b>233 11 050 040</b>
	16,7	9,6	4,0 - 6,5			S=8,1-e	8,6		<b>233 11 050 065</b>
	19,8		6,5 - 9,0			S=10,7-e	9,0		<b>233 11 050 090</b>
<b>M6</b>	17,3	11,3	1,5 - 4,0	9,0	1,5	S=6,2-e	10,0	0,1	<b>233 11 060 040</b>
	20,3	11,7	4,0 - 6,5			S=8,7-e			<b>233 11 060 065</b>
	21,8		6,5 - 9,0			S=10,4-e	11,4		<b>233 11 060 090</b>
<b>M8</b>	17,8	13,1	1,5 - 4,0	11,0	1,5	S=7,0-e	11,0	0,1	<b>233 11 080 040</b>
	20,8		4,0 - 6,5			S=9,5-e			<b>233 11 080 065</b>
	23,75		6,5 - 9,0			S=12,0-e			<b>233 11 080 090</b>
<b>M10</b>	21,8	15,1	1,5 - 4,0	13,0	1,5	S=8,4-e	15,0	0,1	<b>233 11 100 040</b>
	24,75	15,5	4,0 - 6,5			S=8,4-e			<b>233 11 100 065</b>
	28,0		6,5 - 9,0			S=11,5-e	14,8		<b>233 11 100 090</b>
<b>M12</b>	25,9	19,0	1,7 - 4,5	16,0	1,7	S=8,2-e	17,5	0,1	<b>233 11 120 045</b>
	29,0		4,5 - 7,5			S=9,7-e			<b>233 11 120 075</b>
	31,8		7,5 - 10,5			S=13,7-e	18,0		<b>233 11 120 105</b>

Steel | Countersunk head | Plain | Closed



	d (mm)	L (mm)	B (mm)	e (min - max) (mm)	+0.1/0 (mm)	f (mm)	S (mm)	L <sub>2</sub> (mm)	E <sub>max</sub> (mm)	
<b>M3</b>		13,5	6,6	1,0 - 1,5	5,0	0,9	S=2,8-e	10,0	0,1	<b>233 31 030 015</b>
		14,2	6,6	1,5 - 3,0		1,3	S=4,3-e	8,8		<b>233 31 030 030</b>
		14,3	7,0	3,0 - 4,5			S=5,8-e			<b>233 31 030 045</b>
		15,9		3,0 - 4,5		0,9	S=5,8-e	7,8		<b>233 31 030 060</b>
<b>M4</b>		15,8	7,5	1,0 - 2,0	6,0	0,9	S=2,8-e	11,9	0,1	<b>233 31 040 020</b>
		16,7	7,8	2,0 - 3,0			S=4,7-e	10,1		<b>233 31 040 030</b>
		18,2	8,0	3,0 - 5,0		1,3	S=6,3-e	10,4		<b>233 31 040 050</b>
		20,2		5,0 - 7,0			S=8,4-e	10,3		<b>233 31 040 070</b>
<b>M5</b>		21,3	9,2	1,5 - 4,0	7,0	1,5	S=6,5-e	14,0	0,1	<b>233 31 050 040</b>
		24,4	9,6	4,0 - 6,5			S=8,1-e	14,6		<b>233 31 050 065</b>
		25,9		6,5 - 9,0			S=10,7-e	15,1		<b>233 31 050 090</b>
<b>M6</b>		22,7	11,3	1,5 - 4,0	9,0	1,5	S=6,2-e	17,0	0,1	<b>233 31 060 040</b>
		27,3		4,0 - 6,5			S=8,7-e			<b>233 31 060 065</b>
		28,8	11,7	6,5 - 9,0				S=10,5-e		19,4
<b>M8</b>		25,7	13,1	1,5 - 4,0	11,0	1,5	S=7,0-e	19,0	0,1	<b>233 31 080 040</b>
		28,8	4,0 - 6,5	S=7,0-e			<b>233 31 080 065</b>			
		31,8	13,5	6,5 - 9,0				S=11,3-e		20,4
<b>M10</b>		31,8	15,5	1,5 - 4,0	13,0	1,5	S=6,3-e	25,4	0,1	<b>233 31 100 040</b>
		34,0		4,0 - 6,5			S=8,9-e	25,8		<b>233 31 100 065</b>
		38,0		6,5 - 9,0			S=12,3-e			<b>233 31 100 090</b>
<b>M12</b>		37,8	19,0	1,7 - 4,5	16,0	1,7	S=7,2-e	30,5	0,1	<b>233 31 120 045</b>
		40,8		4,5 - 7,5			S=10,4e	30,3		<b>233 31 120 075</b>
		43,8		7,5 - 10,5			S=13,4-e			<b>233 31 120 105</b>

## RIVKLE® – Stainless steel range

### Introduction

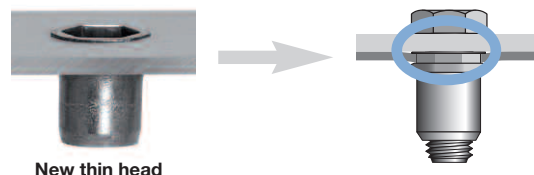
Industrial markets are constantly changing, bringing new applications and new customer needs. Sealed or optimized product designs are more and more requested.

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 - New thin head design

This new head design has been optimized to provide a minimum head projection and to reduce the gap between the 2 assembled parts.


See references page 24.

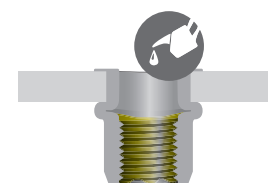


### RIVKLE® Stainless steel - Lubricated range

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...).

 See references pages 24, 25 and 27.



### RIVKLE® Stainless steel - Studs

RIVKLE® stainless steel studs are already lubricated and provide additional functions:

- Alignment
- Pre-adjustment
- Screwing (nut) with one hand for the operator

See references page 43.



### RIVKLE® Stainless steel - Plusnut

In order to diversify the Plusnut offer, dedicated stainless steel products have been designed. These blind rivet nuts increase the clamping area and reduce radial stresses during installation.

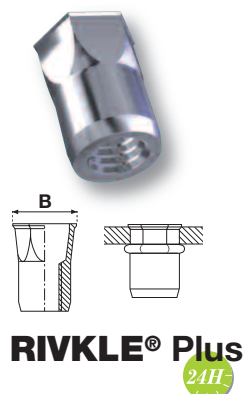
See page 39.





# RIVKLE® – Blind rivet nuts - Stainless steel

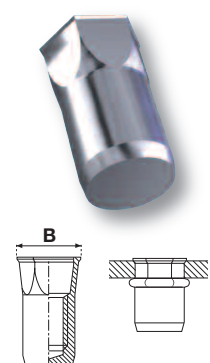
Stainless steel | Thin head | Semi-hexagonal | Open



d (mm)	L (mm)	B (mm)	e (min - max) (mm)	H <sub>Z</sub> +0,1/0 (mm)	S (mm)	L <sub>2</sub> (mm)	E <sub>max</sub> (mm)		
<b>M3</b>	8,6	5,8	1,0 - 2,3	5,0	S=3,8-e	4,5	0,4		
	9,5		2,3 - 3,2		S=4,7-e				
<b>M4</b>	10,4	6,7	0,5 - 2,0	6,0	S=3,1-e	6,8	0,4		
	11,5	7,0	0,8 - 3,0		S=4,2-e				
	11,7		3,0 - 4,2		S=5,8-e				
<b>M5</b>	12,0	7,8	0,5 - 3,0	7,0	S=4,4-e	7,0	0,45		
	12,8	8,9	3,0 - 4,5		S=6,5-e		0,4		
<b>M6</b>	14,5	10,2	0,5 - 3,0	9,0	S=4,2-e	9,7	0,45		
	14,3	9,7			S=7,4-e		0,3		
	16,5	10,2	3,0 - 5,5		S=8,0-e	8,5	0,45		
	16,0	11,1	4,0 - 5,5		S=8,5-e		0,5		
<b>M8</b>	15,8	12,5	0,5 - 3,0	11,0	S=4,7-e	10,4	0,3		
	17,6		1,5 - 5,0		S=7,0-e				
<b>M10</b>	19,4	14,2	1,0 - 3,5	13,0	S=7,0-e	12,0	0,7		
	21,5	14,4	2,5 - 5,5		S=9,1-e				
<b>M12</b>	23,5	17,4	1,0 - 4,5	16,0	S=8,5-e	15,0	0,7		

\*New thin head design

Stainless steel | Thin head | Semi-hexagonal | Closed

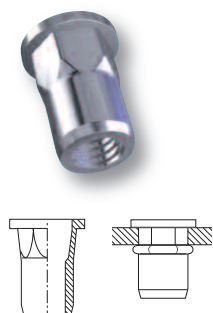












d (mm)	L (mm)	B (mm)	e (min - max) (mm)	H <sub>Z</sub> +0,1/0 (mm)	S (mm)	L <sub>2</sub> (mm)	E <sub>max</sub> (mm)		
<b>M3</b>	13,3	5,8	1,0 - 2,3	5,0	S=3,8-e	9,0	0,4		
	14,2		2,3 - 3,2		S=4,7-e				
<b>M4</b>	15,4	6,7	0,5 - 2,5	6,0	S=3,8-e	11,5	0,4		
	17,3	7,8	3,0 - 4,2		S=5,8-e				
<b>M5</b>	17,4	7,8	0,5 - 3,0	7,0	S=4,4-e	12,5	0,45		
	20,3		3,0 - 4,5		S=6,5-e		0,5		
<b>M6</b>	20,5	9,8	0,5 - 3,0	9,0	S=4,1-e	15,0	0,6		
	23,0	10,2	3,0 - 5,5		S=7,4-e		0,45		
<b>M8</b>	26,6	12,5	1,5 - 5,0	11,0	S=7,0-e	19,0	0,3		
<b>M10</b>	29,3	15,6	1,0 - 3,5	13,0	S=7,0-e	22,0	0,65		
	31,3		2,5 - 5,5		S=9,0-e				
<b>M12</b>	34,0	18,9	1,0 - 4,5	16,0	S=8,5-e	26,4	0,7		

\*New thin head design

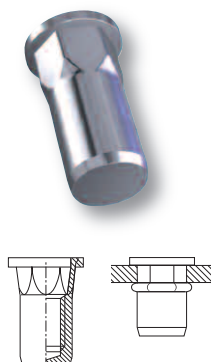











## Stainless steel | Flat head | Semi-hexagonal | Open



 d (mm)	 L (mm)	 B (mm)	 e (min - max) (mm)	 H $+0.1/0$ (mm)	 S (mm)	 L2 (mm)	 E (mm)		
<b>M3</b>	9,0	7,0	1,0 - 2,3	5,0	S=3,1-e	5,0	0,7	<b>233 48</b> 030 023	
	9,7		2,3 - 3,0		S=4,5-e			<b>233 48</b> 030 030	
<b>M4</b>	12,0	9,0	0,5 - 2,0	6,0	S=3,5-e	5,4	1,0	<b>233 48</b> 040 020	
	12,1	8,0	2,0 - 3,5		S=5,5-e	6,0	0,7	<b>233 48</b> 040 040	
<b>M5</b>	12,5	10,0	0,5 - 3,0	7,0	S=4,7-e	5,4	1,0	<b>233 48</b> 050 030	<b>233 49</b> 050 531
	14,0	9,0	2,0 - 4,0		S=4,8-e	7,5		<b>233 48</b> 050 040	
<b>M6</b>	15,8	12,0	0,5 - 3,0	9,0	S=4,0-e	9,7	1,5	<b>233 48</b> 060 001	<b>233 49</b> 060 509
	16,0	11,0	3,0 - 4,5		S=7,1-e	9,0	1,4	<b>233 48</b> 060 045	
<b>M8</b>	16,5	14,0	0,5 - 3,0	11,0	S=5,4-e	9,6	1,5	<b>233 48</b> 080 001	<b>233 49</b> 080 546
	18,5		3,0 - 5,5		S=7,4-e			<b>233 48</b> 080 002	
<b>M10</b>	21,0	17,0	1,0 - 3,5	13,1	S=6,5-e	13,7	2,0	<b>233 48</b> 100 035	
	22,7	16,0	3,5 - 5,5	13,0	S=9,4-e	12,0	1,8	<b>233 48</b> 100 055	
<b>M12</b>	24,2	20,0	1,0 - 4,5	16,0	S=8,5-e	15,0	1,8	<b>233 48</b> 120 045	

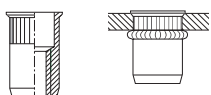
## Stainless steel | Flat head | Semi-hexagonal | Closed



 d (mm)	 L (mm)	 B (mm)	 e (min - max) (mm)	 H $+0.1/0$ (mm)	 S (mm)	 L2 (mm)	 E (mm)	
<b>M3</b>	12,7	7,0	1,1 - 2,3	5,0	S=3,8-e	9,2	0,7	<b>233 58</b> 030 023
	14,3		2,3 - 3,0		S=4,5-e	9,5		<b>233 58</b> 030 030
<b>M4</b>	15,5	8,0	0,5 - 2,0	6,0	S=3,8-e	11,5	0,8	<b>233 58</b> 040 020
	17,5		2,0 - 3,5		S=5,6-e			<b>233 58</b> 040 040
<b>M5</b>	19,6	9,0	0,5 - 3,0	7,0	S=5,0-e	12,5	1,0	<b>233 58</b> 050 001
	20,0		2,0 - 4,0		S=6,1-e	13,5	0,8	<b>233 58</b> 050 040
<b>M6</b>	22,3	12,0	0,5 - 3,0	9,1	S=4,0-e	15,5	1,5	<b>233 58</b> 060 030
	23,7	11,0	3,0 - 4,5	9,0	S=7,1-e		1,4	<b>233 58</b> 060 045
<b>M8</b>	26,1	14,0	0,8 - 3,0	11,0	S=5,3-e	19,5	1,5	<b>233 58</b> 080 001
	27,0		3,0 - 5,5		S=8,2-e	18,0	1,4	<b>233 58</b> 080 055
<b>M10</b>	31,5	16,0	1,0 - 3,5	13,0	S=7,4-e	27,5	1,8	<b>233 58</b> 100 035
	33,5		3,5 - 5,5		S=9,4-e			<b>233 58</b> 100 055
<b>M12</b>	35,0	20,0	1,0 - 4,5	16,0	S=8,5-e	29,5	1,8	<b>233 58</b> 120 045

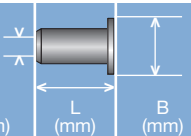
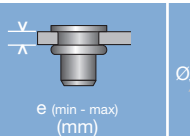
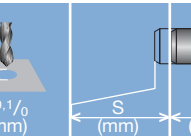
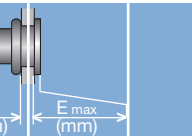

# RIVKLE® – Blind rivet nuts - Stainless steel

Stainless steel | Thin head | Knurled | Open

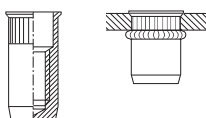


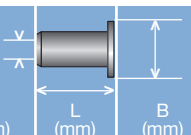
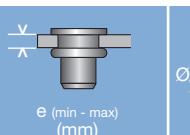
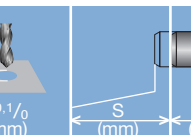
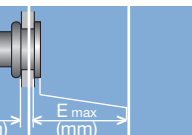

**RIVKLE® Plus**

24H

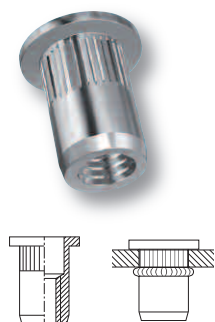
								
d (mm)	L (mm)	B (mm)	e (min - max) (mm)	+0.1/0 (mm)	S (mm)	L2 (mm)	E max (mm)	
M3	8,7	6,0	0,7 - 1,5	5,0	S=2,4-e	5,9	0,3	343 66 030 015
	7,9		1,5 - 2,5		S=3,5-e			343 66 030 025
	10,5		2,0 - 3,2		S=4,6-e			343 66 030 032
M4	11,6	7,0	0,7 - 3,0	6,0	S=4,0-e	7,5	0,5	343 66 040 230
	12,5		2,5 - 4,2		S=4,6-e	6,6	0,3	343 66 040 042
M5	12,3	8,0	0,7 - 3,3	7,0	S=4,4-e	8,0	0,5	343 66 050 233
	14,5		3,3 - 4,5		S=6,3-e	8,2	0,3	343 66 050 045
M6	14,5	10,0	0,7 - 3,3	9,0	S=5,7-e	8,6	0,6	343 66 060 233
	17,5		3,0 - 5,5		S=7,5-e	9,6	0,45	343 66 060 055
	17,0		4,5 - 6,0		S=7,9-e	8,7	0,4	343 66 060 060
M8	16,1	12,0	0,7 - 3,3	11,0	S=6,5-e	9,5	0,6	343 66 080 233
	18,6		3,3 - 5,5		S=9,0-e	10,0		343 66 080 255
	19,1		4,5 - 6,0		S=7,9-e	10,7	0,4	343 66 080 060
M10	18,3	14,0	0,8 - 1,5	13,0	S=3,9-e	13,9	0,4	343 66 100 015
	19,9		1,5 - 3,0		S=5,5-e			343 66 100 030
	21,5		3,0 - 4,5		S=7,1-e			343 66 100 045
	23,1		4,5 - 6,0		S=8,7-e			343 66 100 060
M12	21,5	17,0	0,8 - 1,5	16,0	S=3,8-e	17,2	0,4	343 66 120 015
	23,1		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



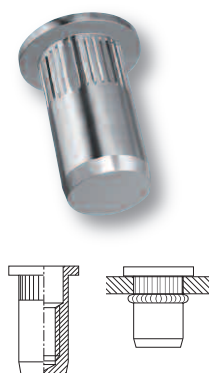
										
d (mm)	L (mm)	B (mm)	e (min - max) (mm)	+0.1/0 (mm)	S (mm)	L2 (mm)	E max (mm)			
M3	13,0	6,0	0,7 - 1,5	5,0	S=2,4-e	10,2	0,3	343 76 030 015		
	14,1		1,5 - 2,5		S=3,5-e			343 76 030 025		
	14,8		2,0 - 3,2		S=4,6-e			343 76 030 032		
M4	15,7	7,0	0,7 - 3,0	6,0	S=3,8-e	12,0	0,5	343 76 040 030		
	16,7		2,5 - 3,5		S=4,0-e	11,9	0,3	343 76 040 035		
	17,5		2,5 - 4,2		S=4,7-e			343 76 040 042		
M5	17,8	8,0	0,8 - 2,0	7,0	S=3,2-e	14,2	0,3	343 76 050 020		
	18,9		2,0 - 3,0		S=4,3-e					343 76 050 030
	20,5		3,0 - 4,5		S=5,4-e					343 76 050 045
M6	17,3	10,0	0,8 - 1,5	9,0	S=3,1-e	13,7	0,4	343 76 060 015		
	18,8		1,5 - 3,0		S=4,7-e				343 76 060 030	
	20,4		3,0 - 4,5		S=6,3-e	13,6			343 76 060 045	
	22,0		4,5 - 6,0		S=7,9-e				343 76 060 060	
M8	20,3	12,0	1,5 - 3,0	11,0	S=3,1-e	16,7	0,4	343 76 080 015		
	21,9		1,5 - 3,0		S=4,7-e					343 76 080 030
	23,5		3,0 - 4,5		S=6,3-e					343 76 080 045
	25,1		4,5 - 6,0		S=7,9-e					343 76 080 060
M10	26,3	14,0	0,8 - 1,5	13,0	S=3,9-e	21,9	0,4	343 76 100 015		
	27,9		1,5 - 3,0		S=5,5-e					343 76 100 030
	29,5		3,0 - 4,5		S=7,1-e					343 76 100 045
	31,1		4,5 - 6,0		S=8,7-e					343 76 100 060
M12	30,5	17,0	0,8 - 1,5	16,0	S=3,8-e	26,2	0,4	343 76 120 015		
	32,1		1,5 - 3,0		S=3,8-e					343 76 120 030
	33,7		3,0 - 4,5		S=7,0-e					343 76 120 045
	35,3		4,5 - 6,0		S=8,6-e					343 76 120 060










## Stainless steel | Flat head | Knurled | Open



 d (mm)	 L (mm)	 B (mm)	 e (min - max) (mm)	 Ø +0.1/0 (mm)	 S (mm)	 L2 (mm)	 E (mm)		
<b>M3</b>	9,3	7,0	0,7 - 1,5	5,0	S=2,4-e	5,9	1,0	<b>233 06 030 015</b>	
	10,4		1,5 - 2,5		S=3,5-e			<b>233 06 030 025</b>	
	11,0		2,0 - 3,2		S=4,4-e			<b>233 06 030 032</b>	
<b>M4</b>	11,9	8,0	0,7 - 3,0	6,0	S=4,0-e	6,5	1,0	<b>233 06 040 230</b>	
	12,4		2,5 - 4,2		S=4,7-e	6,0		<b>233 06 040 042</b>	
<b>M5</b>	12,7	9,0	0,7 - 3,3	7,0	S=5,3-e	7,2	1,0	<b>233 06 050 233</b>	<b>233 09 050 501</b>
	14,9		3,0 - 4,5		S=5,7-e	7,8		<b>233 06 050 045</b>	
<b>M6</b>	15,2	12,0	0,7 - 3,3	9,0	S=6,3-e S=7,9-e	8,6	1,5	<b>233 06 060 233</b>	<b>233 09 060 501</b>
	16,4		3,0 - 4,5					<b>233 06 060 045</b>	
	18,2		4,5 - 6,0					<b>233 06 060 060</b>	
<b>M8</b>	16,9	14,0	0,7 - 3,3	11,0	S=6,5-e	9,5	1,5	<b>233 06 080 233</b>	<b>233 09 080 501</b>
	19,0		3,0 - 5,5		S=8,5-e			<b>233 06 080 255</b>	
	20,0		4,5 - 6,0		S=7,9-e	10,6		<b>233 06 080 060</b>	
<b>M10</b>	19,8	16,0	0,8 - 1,5	13,0	S=3,9-e	13,9	2,0	<b>233 06 100 015</b>	
	21,4		1,5 - 3,0		S=5,5-e			<b>233 06 100 030</b>	
	23,0		3,0 - 4,5		S=7,1-e			<b>233 06 100 045</b>	
	24,6		4,5 - 6,0		S=8,7-e			<b>233 06 100 060</b>	
<b>M12</b>	23,0	20,0	0,8 - 1,5	16,0	S=3,8-e	17,2	2,0	<b>233 06 120 015</b>	
	24,6		1,5 - 3,0		S=5,4-e			<b>233 06 120 030</b>	
	26,2		3,0 - 4,5		S=7,0-e			<b>233 06 120 045</b>	
	27,8		4,5 - 6,0		S=8,6-e			<b>233 06 120 060</b>	

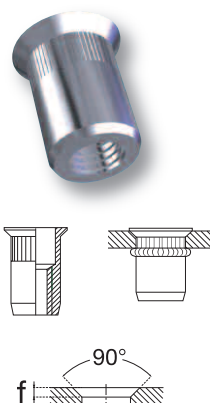
## Stainless steel | Flat head | Knurled | Closed



 d (mm)	 L (mm)	 B (mm)	 e (min - max) (mm)	 Ø +0.1/0 (mm)	 S (mm)	 L2 (mm)	 E (mm)	
<b>M3</b>	13,6	7,0	0,7 - 1,5	5,0	S=2,4-e	10,2	1,0	<b>233 26 030 015</b>
	14,7		1,5 - 2,5		S=3,5-e			<b>233 26 030 025</b>
	15,4		2,3 - 3,2		S=4,4-e			<b>233 26 030 032</b>
<b>M4</b>	14,8	8,0	0,7 - 1,5	6,0	S=2,6-e	11,2	1,0	<b>233 26 040 015</b>
	16,2		0,7 - 3,0		S=4,8-e			<b>233 26 040 030</b>
	16,7		2,5 - 3,5		S=4,7-e			<b>233 26 040 035</b>
<b>M5</b>	17,5	9,0	2,5 - 4,2	7,0	S=5,5-e	14,0	1,0	<b>233 26 040 042</b>
	17,8		0,7 - 1,5		S=2,8-e			<b>233 26 050 015</b>
	19,3		1,5 - 3,0		S=4,5-e			<b>233 26 050 030</b>
<b>M6</b>	20,4	11,0	3,0 - 4,0	9,0	S=5,6-e	13,8	1,5	<b>233 26 050 040</b>
	18,3		0,8 - 1,5		S=3,1-e			<b>233 26 060 015</b>
	19,8		1,5 - 3,0		S=4,7-e			<b>233 26 060 030</b>
<b>M8</b>	21,4	14,0	3,0 - 4,5	11,0	S=6,3-e	16,6	1,5	<b>233 26 060 045</b>
	23,2		4,5 - 6,0		S=7,9-e			<b>233 26 060 060</b>
	21,3		0,8 - 1,5		S=3,2-e			<b>233 26 080 015</b>
<b>M10</b>	22,8	16,0	1,5 - 3,0	13,0	S=4,7-e	21,9	2,0	<b>233 26 080 030</b>
	24,4		3,0 - 4,5		S=6,3-e			<b>233 26 080 045</b>
	26,0		4,5 - 6,0		S=7,9-e			<b>233 26 080 060</b>
<b>M12</b>	27,8	20,0	0,8 - 1,5	16,0	S=3,9-e	26,2	2,0	<b>233 26 100 015</b>
	29,4		1,5 - 3,0		S=5,5-e			<b>233 26 100 030</b>
	31,0		3,0 - 4,5		S=7,1-e			<b>233 26 100 045</b>
<b>M12</b>	32,6	20,0	4,5 - 6,0	16,0	S=8,7-e	26,2	2,0	<b>233 26 100 060</b>
	32,0		0,8 - 1,5		S=3,8-e			<b>233 26 120 015</b>
	33,6		1,5 - 3,0		S=5,4-e			<b>233 26 120 030</b>
	35,2		3,0 - 4,5		S=7,0-e			<b>233 26 120 045</b>
	36,8		4,5 - 6,0		S=8,6-e			<b>233 26 120 060</b>

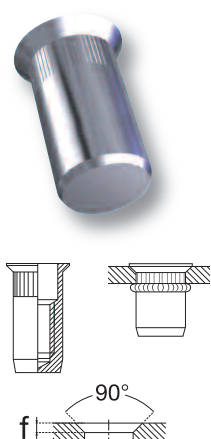
# RIVKLE® – Blind rivet nuts - Stainless steel

Stainless steel | Countersunk head | Knurled | Open



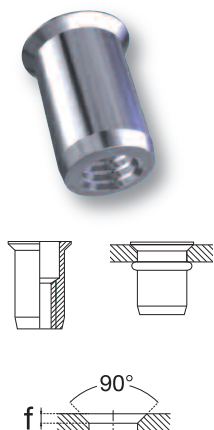
d (mm)	L (mm)	B (mm)	e (min - max) (mm)	+0.1/0 (mm)	f (mm)	S (mm)	L2 (mm)	E max (mm)	
<b>M3</b>	8,8	7,0	1,3 - 2,0	5,0	0,9	S=2,9-e	5,9	0,1	<b>233 16 030 020</b>
	9,9		2,0 - 3,0			S=4,0-e			<b>233 16 030 030</b>
<b>M4</b>	9,3	8,0	1,3 - 2,0	6,0	0,9	S=3,1-e	6,2	0,1	<b>233 16 040 020</b>
	10,3		2,0 - 3,0			S=4,1-e			<b>233 16 040 030</b>
<b>M5</b>	11,4	9,0	3,0 - 4,0	7,0	0,9	S=6,5-e	7,8	0,1	<b>233 16 040 040</b>
	11,3		1,5 - 2,0			S=3,4-e			<b>233 16 050 020</b>
<b>M6</b>	12,3	10,6	2,0 - 3,0	9,0	0,9	S=4,5-e	8,6	0,1	<b>233 16 050 030</b>
	13,4		3,0 - 4,0			S=5,6-e			<b>233 16 050 040</b>
<b>M8</b>	14,3	14,0	1,5 - 4,0	11,0	1,4	S=4,7-e	10,6	0,1	<b>233 16 060 400</b>
	15,4		4,0 - 5,0			S=6,9-e			<b>233 16 060 050</b>
<b>M10</b>	16,5	16,0	5,0 - 6,0	13,0	1,4	S=8,0-e	13,9	0,1	<b>233 16 060 060</b>
	15,3		1,5 - 3,0			S=4,7-e			<b>233 16 080 030</b>
<b>M12</b>	16,3	19,0	3,0 - 4,0	16,0	1,4	S=5,8-e	17,2	0,1	<b>233 16 080 040</b>
	17,4		4,0 - 5,0			S=6,9-e			<b>233 16 080 050</b>
<b>M10</b>	18,5	16,0	5,0 - 6,0	13,0	1,4	S=8,0-e	13,9	0,1	<b>233 16 080 060</b>
	19,4		1,5 - 3,0			S=5,5-e			<b>233 16 100 030</b>
<b>M12</b>	21,0	19,0	3,0 - 4,5	16,0	1,4	S=7,1-e	17,2	0,1	<b>233 16 100 045</b>
	22,6		4,5 - 6,0			S=8,7-e			<b>233 16 100 060</b>
<b>M12</b>	22,6	19,0	1,5 - 3,0	16,0	1,4	S=5,4-e	17,2	0,1	<b>233 16 120 030</b>
	24,2		3,0 - 4,5			S=7,0-e			<b>233 16 120 045</b>
<b>M12</b>	25,8		4,5 - 6,0			S=8,6-e			<b>233 16 120 060</b>

Stainless steel | Countersunk head | Knurled | Closed



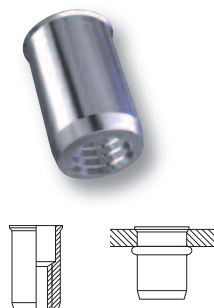
d (mm)	L (mm)	B (mm)	e (min - max) (mm)	+0.1/0 (mm)	f (mm)	S (mm)	L2 (mm)	E max (mm)	
<b>M3</b>	13,1	7,0	1,3 - 2,0	5,0	0,9	S=2,9-e	10,2	0,1	<b>233 36 030 020</b>
	14,2		2,0 - 3,0			S=4,0-e			<b>233 36 030 030</b>
<b>M4</b>	14,3	8,0	1,3 - 2,0	6,0	0,9	S=3,1-e	11,2	0,1	<b>233 36 040 020</b>
	15,3		2,0 - 3,0			S=4,1-e			<b>233 36 040 030</b>
<b>M5</b>	16,4	9,0	3,0 - 4,0	7,0	0,9	S=6,5-e	13,9	0,1	<b>233 36 040 040</b>
	17,3		1,5 - 2,0			S=3,4-e			<b>233 36 050 020</b>
<b>M6</b>	18,3	11,0	2,0 - 3,0	9,0	0,9	S=4,5-e	13,6	0,1	<b>233 36 050 030</b>
	19,4		3,0 - 4,0			S=5,6-e			<b>233 36 050 040</b>
<b>M8</b>	18,3	14,0	1,5 - 3,0	11,0	1,4	S=4,7-e	16,5	0,1	<b>233 36 060 030</b>
	19,3		3,0 - 4,0			S=5,8-e			<b>233 36 060 040</b>
<b>M10</b>	20,4	16,0	4,0 - 5,0	13,0	1,4	S=6,9-e	21,9	0,1	<b>233 36 060 050</b>
	21,5		5,0 - 6,0			S=8,0-e			<b>233 36 060 060</b>
<b>M12</b>	21,3	19,0	1,5 - 3,0	16,0	1,4	S=4,8-e	26,2	0,1	<b>233 36 080 030</b>
	22,3		3,0 - 4,0			S=5,8-e			<b>233 36 080 040</b>
<b>M12</b>	23,4	19,0	4,0 - 5,0	16,0	1,4	S=6,9-e	26,2	0,1	<b>233 36 080 050</b>
	24,5		5,0 - 6,0			S=8,0-e			<b>233 36 080 060</b>
<b>M10</b>	27,4	16,0	1,5 - 3,0	13,0	1,4	S=5,5-e	21,9	0,1	<b>233 36 100 030</b>
	29,0		3,0 - 4,5			S=7,1-e			<b>233 36 100 045</b>
<b>M12</b>	30,6	19,0	4,5 - 6,0	16,0	1,4	S=8,7-e	26,2	0,1	<b>233 36 100 060</b>
	31,6		1,5 - 3,0			S=5,4-e			<b>233 36 120 030</b>
<b>M12</b>	33,2	19,0	3,0 - 4,5	16,0	1,4	S=7,0-e	26,2	0,1	<b>233 36 120 045</b>
	34,8		4,5 - 6,0			S=7,0-e			<b>233 36 120 060</b>

## Stainless steel | Countersunk head | Plain | Open



<b>M4</b>	11,3	7,6	1,30 - 2,50	6,0	1,3	S=4,4-e	6,8	0,1		<b>233 18</b> 040 250
	10,8	8,0	1,75 - 3,25			S=5,3-e	5,4			<b>233 18</b> 040 325
<b>M5</b>	12,5	9,2	1,50 - 3,00	7,0	1,5	S=4,0-e	8,5	0,1		<b>233 18</b> 050 300
	13,8	9,6	3,00 - 4,00			S=5,4-e	8,4			<b>233 18</b> 050 400
<b>M6</b>	14,8	11,3	1,50 - 3,00	9,0	1,5	S=4,9-e	9,5	0,1		<b>233 18</b> 060 300
	16,6	11,5	3,00 - 4,50			S=7,1-e	9,4			<b>233 18</b> 060 450
	18,0		4,50 - 6,00			S=5,4-e	11,2			<b>233 18</b> 060 600
<b>M8</b>	16,3	13,1	1,50 - 3,00	11,0	1,5	S=5,0-e	10,5	0,1		<b>233 18</b> 080 300
	18,1	13,5	3,00 - 4,50			S=5,9-e	11,1			<b>233 18</b> 080 450
	19,7		4,50 - 6,00			S=8,2-e	11,4			<b>233 18</b> 080 600
<b>M10</b>	20,2		1,50 - 3,00	13,0	1,5	S=5,2-e		0,1		<b>233 18</b> 100 300
	21,8	15,5	3,00 - 4,50			S=7,1-e	14,7			<b>233 18</b> 100 450
	23,4		4,50 - 6,00			S=8,7-e				<b>233 18</b> 100 600

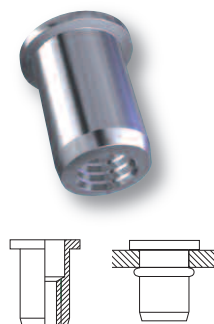
## Stainless steel | Thin head | Plain | Open



<b>M3</b>	8,8	5,3	0,5 - 1,5	4,7	S=2,8-e	5,5	0,4		<b>343 08</b> 030 150
<b>M4</b>	10,4	7,0	0,5 - 2,0	6,4	S=3,5-e	7,3	0,5		<b>343 08</b> 040 200
<b>M5</b>	11,6	7,7	0,5 - 3,0	7,1	S=5,0-e	7,3	0,6		<b>343 08</b> 050 300
<b>M6</b>	14,3	10,2	0,7 - 3,0	9,5	S=5,5-e	9,3	0,6		<b>343 08</b> 060 300
<b>M8</b>	16,35	11,3	0,7 - 3,0	10,5	S=6,1-e	10,5	0,7		<b>343 08</b> 080 300

**inch** For holes with imperial dimensions

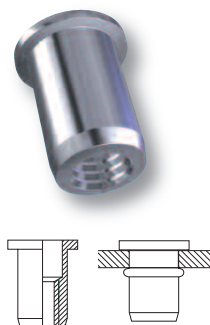
## Stainless steel | Flat head | Plain | Open









<b>M4</b>	12,0	9,0	0,5 - 2,0	6,0	S=3,5-e				<b>233 08</b> 040 020
	13,5		2,0 - 3,5		S=5,2-e	7,8	1,0		<b>233 08</b> 040 035
<b>M5</b>	12,5	10,0	0,5 - 3,0	7,0	S=4,7-e				<b>233 08</b> 050 030
	14,3	9,0	3,0 - 4,0		S=5,6-e	7,7	1,0		<b>233 08</b> 050 400
<b>M6</b>	16,0	12,0	0,5 - 3,0	9,0	S=6,0-e	10,0	1,5		<b>233 08</b> 060 300
	18,0		3,0 - 5,0		S=7,75-e	7,8			<b>233 08</b> 060 450
<b>M8</b>	16,5	14,0	0,8 - 3,0	11,0	S=4,7-e	9,5	1,5		<b>233 08</b> 080 300
	19,4		3,0 - 4,5		S=7,0-e	10,9			<b>233 08</b> 080 450
<b>M10</b>	22,4		1,0 - 3,0	13,0	S=5,6-e	14,9	2,0		<b>233 08</b> 100 300
	24,0	16,0	3,0 - 4,5		S=7,2-e	15,1			<b>233 08</b> 100 450
	25,6		4,5 - 6,0		S=8,8-e	14,9			<b>233 08</b> 100 600

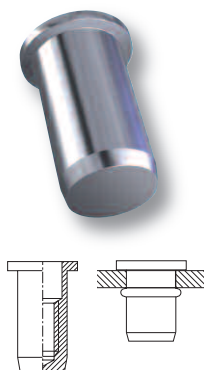
# RIVKLE® – High corrosion resistance: A4

Stainless steel A4



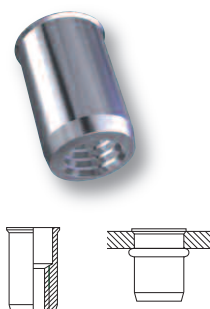
Stainless steel A4 | Flat head | Plain | Open

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









Stainless steel A4 | Flat head | Plain | Closed

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

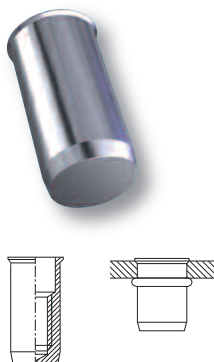








Stainless steel A4 | Thin head | Plain | Open

								
D (mm)	L (mm)	B (mm)	e (min - max) (mm)	Ø +0.1/0 (mm)	(N)	L2 max (mm)	E max (mm)	
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

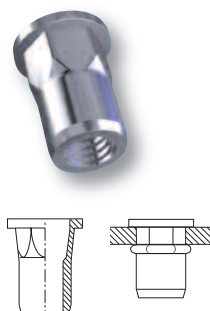
Range dedicated to industry use. In case of non metallic support, please contact us






## Stainless steel A4 | Thin head | Plain | Closed



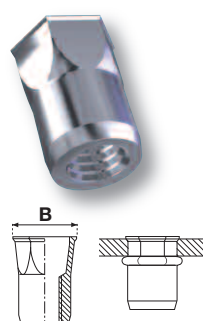
								
D (mm)	L (mm)	B (mm)	e (min - max) (mm)	+0,1/0 (mm)	(N)	L2 max (mm)	E max (mm)	
M4	15,5	6,5	0,5 - 2,0	6,0	9 500	11,6	0,5	343 74 040 020
M5	18,0	7,5	0,5 - 3,0	7,0	12 000	13,2		343 74 050 030
M6	21,5	9,5		9,0	15 000	16,7		343 74 060 030
M8	24,0	11,5		11,0	20 000	19,2		343 74 080 030







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



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

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

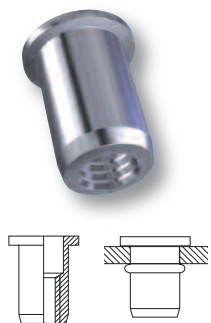


	D (mm)	L (mm)	B (mm)		e (min - max) (mm)		H2 +0.1/0 (mm)		(N)		L2 max (mm)	E max (mm)	
<b>M4</b>	11,0	6,5	0,5 - 2,0		6,0	9 500	7,5	0,5	<b>343 44</b> 040 020				
<b>M5</b>	12,0	7,5		7,0	12 000	7,2	<b>343 44</b> 050 030						
<b>M6</b>	14,5	9,7	0,5 - 3,0	9,0	15 000	9,3	<b>343 44</b> 060 030						
<b>M8</b>	16,0	11,5		11,0	20 000	11,0	<b>343 44</b> 080 030						



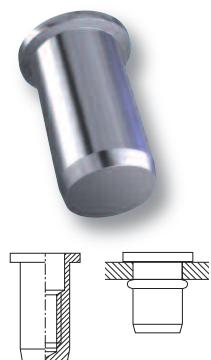
## RIVKLE® – Blind rivet nuts - Aluminium

### Aluminium | Flat head | Plain | Open



	d (mm)	L (mm)	B (mm)	e (min - max) (mm)	$\varnothing$ +0.1/0 (mm)	S (mm)	L2 (mm)	E (mm)	
<b>M3</b>	10,5	8,0		0,50 - 2,00	5,0	S=3,2-e	5,4	0,75	<b>233 00</b> 030 020
	10,75	7,5		2,00 - 3,50		S=4,3-e		1,0	<b>233 00</b> 030 035
<b>M4</b>	11,0	9,0		0,25 - 2,50	6,0	S=4,1-e	6,3	1,0	<b>233 00</b> 040 025
	13,0	10,0		3,00 - 4,50		S=5,9-e		0,75	<b>233 00</b> 040 046
<b>M5</b>	13,6	10,0		0,50 - 3,00	7,0	S=4,5-e	7,8	1,0	<b>233 00</b> 050 030
	16,0	11,0		3,00 - 5,50		S=6,7-e		1,0	<b>233 00</b> 050 056
<b>M6</b>	16,6	13,0		0,50 - 3,00	9,0	S=5,0-e	10,4	1,5	<b>233 00</b> 060 030
	18,0			3,00 - 5,50		S=6,8-e		1,5	<b>233 00</b> 060 056
<b>M8</b>	20,0	16,0		0,50 - 3,00	11,0	S=5,8-e	12,7	1,5	<b>233 00</b> 080 030
	20,0			3,00 - 5,50		S=7,2-e		1,5	<b>233 00</b> 080 056
<b>M10</b>	25,0	19,0		0,80 - 3,50	13,0	S=6,2-e	16,8	2,0	<b>233 00</b> 100 035
	27,7			3,50 - 6,00		S=8,7-e		2,0	<b>233 00</b> 100 060

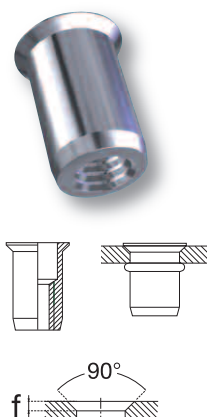
### Aluminium | Flat head | Plain | Closed



	d (mm)	L (mm)	B (mm)	e (min - max) (mm)	$\varnothing$ +0.1/0 (mm)	S (mm)	L2 (mm)	E (mm)	
<b>M3</b>	13,5	7,5		0,25 - 2,00	5,0	S=3,0-e	9,3	1,0	<b>233 20</b> 030 020
	15,1			2,00 - 3,50		S=4,3-e	9,8		<b>233 20</b> 030 035
<b>M4</b>	15,5	10,0		0,50 - 3,00	6,0	S=4,0-e	10,8	0,75	<b>233 20</b> 040 030
	18,1	9,0		2,50 - 4,50		S=5,6-e	11,5	1,0	<b>233 20</b> 040 045
<b>M5</b>	19,0	11,0		0,50 - 3,00	7,0	S=4,5-e	13,5	1,0	<b>233 20</b> 050 031
	21,9	10,0		3,00 - 5,50		S=6,9-e	14,0	1,0	<b>233 20</b> 050 055
<b>M6</b>	23,0	13,0		0,50 - 3,00	9,0	S=4,5-e	17,3	1,5	<b>233 20</b> 060 031
	26,3			3,00 - 5,50		S=7,7-e	17,1	1,5	<b>233 20</b> 060 055
<b>M8</b>	24,0	16,0		0,50 - 3,00	11,0	S=4,5-e	18,0	1,5	<b>233 20</b> 080 031
	31,0			3,00 - 5,50		S=8,5-e	21,0	1,5	<b>233 20</b> 080 055
<b>M10</b>	37,5	19,0		3,50 - 6,00	13,0	S=9,0-e	26,5	2,0	<b>233 20</b> 100 060

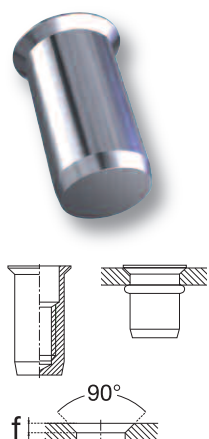


## Aluminium | Countersunk head | Plain | Open



d (mm)	L (mm)	B (mm)	e (min - max) (mm)	$\phi$ +0.1/0 (mm)	f (mm)	S (mm)	L <sub>2</sub> (mm)	E <sub>max</sub> (mm)	
<b>M3</b>	10,2	7,2	1,3 - 3,5	5,0	1,3	S=4,0-e	6,1	0,1	<b>233 10</b> 030 035
	11,8		3,5 - 5,0			S=6,0-e	5,7		
<b>M4</b>	11,5	9,0	1,7 - 3,5	6,0	1,5	S=4,4-e	6,7	0,1	<b>233 10</b> 040 036
	12,8		3,5 - 5,0			S=6,0-e			
<b>M5</b>	13,0	10,0	1,0 - 4,0	7,0	0,9	S=5,5-e	7,8	0,1	<b>233 10</b> 050 040
	16,3		4,0 - 6,5			S=7,7-e			
<b>M6</b>	17,0	12,0	1,7 - 4,5	9,0	1,5	S=6,3-e	10,4	0,1	<b>233 10</b> 060 046
	18,7		4,5 - 6,5			S=8,7-e			
<b>M8</b>	19,0	14,0	1,7 - 4,5	11,0	1,5	S=7,5-e	12,7	0,1	<b>233 10</b> 080 046
	22,2		4,5 - 6,5			S=9,3-e			
<b>M10</b>	21,0	15,4	1,7 - 4,5	12,5	1,5	S=7,5-e	13,2	0,1	<b>233 10</b> 100 046
	26,1		4,5 - 6,5			S=10,4-e			

## Aluminium | Countersunk head | Plain | Closed



d (mm)	L (mm)	B (mm)	e (min - max) (mm)	$\phi$ +0.1/0 (mm)	f (mm)	S (mm)	L <sub>2</sub> (mm)	E <sub>max</sub> (mm)	
<b>M3</b>	14,1	7,2	1,5 - 3,5	5,0	1,3	S=4,0-e	10,0	0,1	<b>233 30</b> 030 035
	15,7		3,5 - 5,0			S=6,0-e	9,5		
<b>M4</b>	17,7	8,2	1,5 - 3,5	6,0	1,3	S=4,6-e	11,6	0,1	<b>233 30</b> 040 035
	19,3		3,5 - 5,0			S=6,0-e			
<b>M5</b>	19,4	9,6	1,5 - 4,5	7,0	1,5	S=5,7-e	13,6	0,1	<b>233 30</b> 050 045
	25,2		1,5 - 4,5			S=6,5-e			
<b>M6</b>	27,3	11,7	4,5 - 6,5	9,0	1,5	S=8,6-e	17,0	0,1	<b>233 30</b> 060 045
	30,0		1,5 - 4,5			S=6,9-e			
<b>M8</b>	32,1	13,5	4,5 - 6,5	11,0	1,5	S=9,1-e	21,3	0,1	<b>233 30</b> 080 045
	33,9		1,5 - 4,5			S=7,5-e			
<b>M10</b>	36,0	15,5	4,5 - 6,5	13,0	1,5	S=9,5-e	26,5	0,1	<b>233 30</b> 100 065

# RIVKLE® HRT – High Resistance Thread

## Advantages:

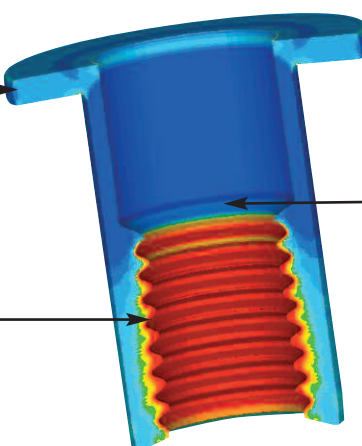
- Increased tightening torque enables increased preload in the joint
- Allows the use of smaller diameter thread
- Weight saving
- Corrosion resistance (for aluminium versions)
- Ability to completely recycle products (for aluminium versions)

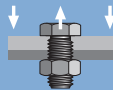
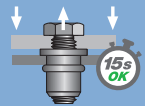





Forged head to ensure rigidity under load

Area of hardened steel (or aluminium) to ensure rigidity under load

Area of ductile steel (or aluminium) enables installation with standard RIVKLE® tools



				
				 HRT
		10.9 (ISO 898-1)	10 (ISO 898-2)	
Steel 10.9	M6	16 700 N	20 900 N	20 900 N
	M8	30 400 N	38 100 N	38 100 N
	M10	48 100 N	60 300 N	60 300 N
	M12	70 000 N	88 500 N	88 500 N
		12.9 (ISO 898-1)	12 (ISO 898-2)	
Steel 12.9	M6	19 500 N	23 100 N	23 100 N
	M8	35 500 N	42 500 N	42 500 N
	M10	56 300 N	67 300 N	67 300 N
	M12	81 800 N	100 300 N	100 300 N
		8.8 (ISO 898-1)	8 (ISO 898-2)	
Aluminium	M5	8 230 N	12 140 N	12 140 N
	M6	11 600 N	17 200 N	17 200 N
	M8	21 200 N	31 800 N	31 800 N

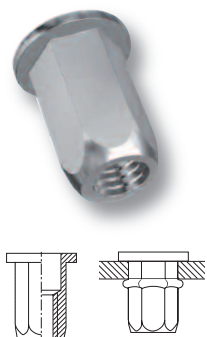
The required setting force is dependent upon the screw assembly method (elastic or over elastic).

In order to avoid any setting of the RIVKLE® HRT during screw assembly, we recommend to apply a setting load in accordance to the preload of the screw.

Please ask Böllhoff in case you need any assistance.

## RIVKLE® HRT - Steel

Steel HRT | Flat head | Hexagonal | Open



d (mm)	L (mm)	B (mm)	e (min - max) (mm)	H <sub>Z</sub> +0,1/0 (mm)	S (mm)	L <sub>2</sub> (mm)	E (mm)		10.9	12.9
<b>M6</b>	20,0	14,0	1,0 - 3,0	9,0	S=6,5-e	13,0	1,5		✓	-
<b>M8</b>	23,6	17,0	1,0 - 3,0	11,0	S=6,3-e	16,0	1,5		✓	-
	26,6		3,0 - 6,0		S=9,6-e				✓	✓
<b>M10</b>	27,0	20,0	1,0 - 3,5	13,0	S=8,7-e	17,5	2,0		✓	✓
	28,5		2,0 - 5,0		S=9,5-e				✓	✓
<b>M12x1,5</b>	33,0	27,0	1,0 - 4,0	16,0	S=10,5-e	22,0	2,0		✓	✓

A wide range of plating finishes are available. Other configurations are available upon request.

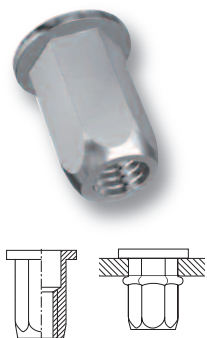
### Setting forces

		10.9	12.9
<b>M6</b>	<b>232 91 060 502</b>	14 000	-
<b>M8</b>	<b>232 91 080 504</b>	24 000	-
	<b>232 49 080 502</b>	24 000	27 000
<b>M10</b>	<b>232 91 100 503</b>	38 000	42 000
	<b>232 91 100 501</b>	38 000	42 000
<b>M12x1,5</b>	<b>232 91 124 501</b>	55 000	61 000

According to assembly conditions, these setting forces can be reduced. Please contact BÖLLHOFF.

## RIVKLE® HRT - Aluminum

Aluminium HRT | Flat head | Hexagonal | Open



D (mm)	L (mm)	B (mm)	e (min - max) (mm)	H <sub>Z</sub> +0,1/0 (mm)	S (mm)	L <sub>2</sub> max (mm)	E max (mm)		8.8
<b>M5</b>	18,1	14,0	0,5 - 3,0	9,0	S=6,5-e	11,0	1,0		✓
<b>M6</b>	18,6	14,0	0,5 - 3,0	9,0	S=6,8-e	11,5	1,5		✓
<b>M8</b>	23,6	17,0	0,5 - 3,5	11,0	S=7,0-e	15,5	1,5		✓

Optimized for aluminium and magnesium workpieces.

Weight saving and corrosion resistant solutions for external applications.

### Setting forces

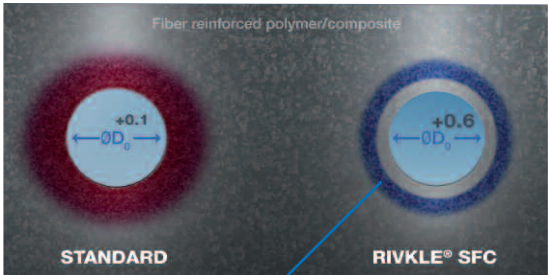
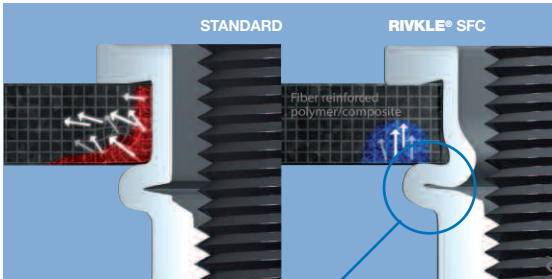
		8.8
<b>M5</b>	<b>232 90 050 501</b>	12 000
<b>M6</b>	<b>232 40 060 030</b>	12 000
<b>M8</b>	<b>232 40 080 030</b>	18 000

According to assembly conditions, these setting forces can be reduced. Please contact BÖLLHOFF.

# RIVKLE® SFC – Smart For Composite

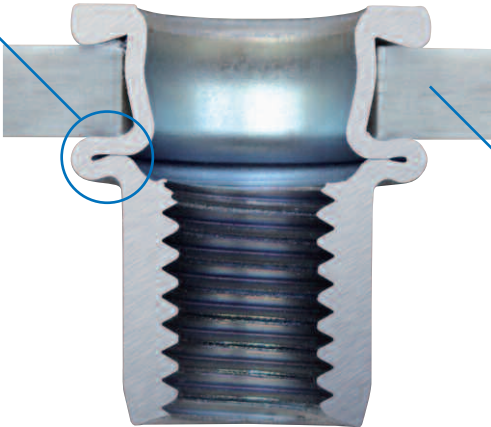
## Advantages:

- No delamination risks (due to the fastener)
- Reduction of crack risk at injection welding line
- Possible reduction of distance to edge
- Larger hole tolerance
- Allows off axis setting



Unique buldge

Clamp load is uniformly distributed around the hole



Fiber-reinforced polymer material

RIVKLE® SFC sectional view

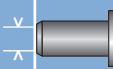


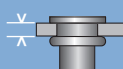


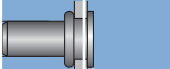

Ø			
M6	12 000 N	RIVKLE® reusable*	15 000 N
M8	18 000 N	RIVKLE® reusable*	27 000 N
Similar performance to standard RIVKLE®			

\*RIVKLE® is more resistant than screw property class 8.8

## RIVKLE® SFC - Steel





### Steel



 D (mm)	 L (mm)	 B (mm)	 e (min - max) (mm)	 Ø -0.1/+0.5 (mm)	 (N)	 L2 max (mm) E (mm)		
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	13,0	3,5 - 5,0					233 91 060 971
	20,7	18,0	2,0 - 3,5					233 91 060 969
	22,2	18,0	3,5 - 5,0					233 91 060 970
M8	22,0	20,0	2,0 - 3,5	11,1	18 000	12,0		233 91 080 848
	23,5		3,5 - 5,0					233 91 080 849

### Steel Elliptic head



								
<b>M6</b>	20.9	17   13	2.2 - 3.7	9.2	12 000	11.5	1.7	<b>233 91</b> 060 995

## RIVKLE® SFC - Stainless steel

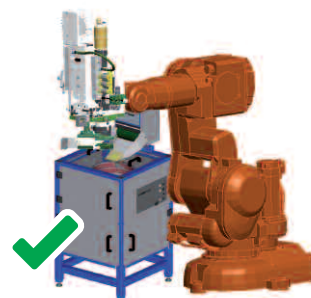
### Stainless steel A4



D (mm)	L (mm)	B (mm)	e (min - max) (mm)	Ø (-0.1/+0.3) (mm)	(N)	L2 max (mm)	E (mm)	
M6	26.6	H12	1.5 - 3.0	9.3	14 000	17.5	1.5	233 94 060 598

We recommend to use the specific mandrel **236 91** 306 523

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



See  
**RIVKLE® SFC stud**  
page 43

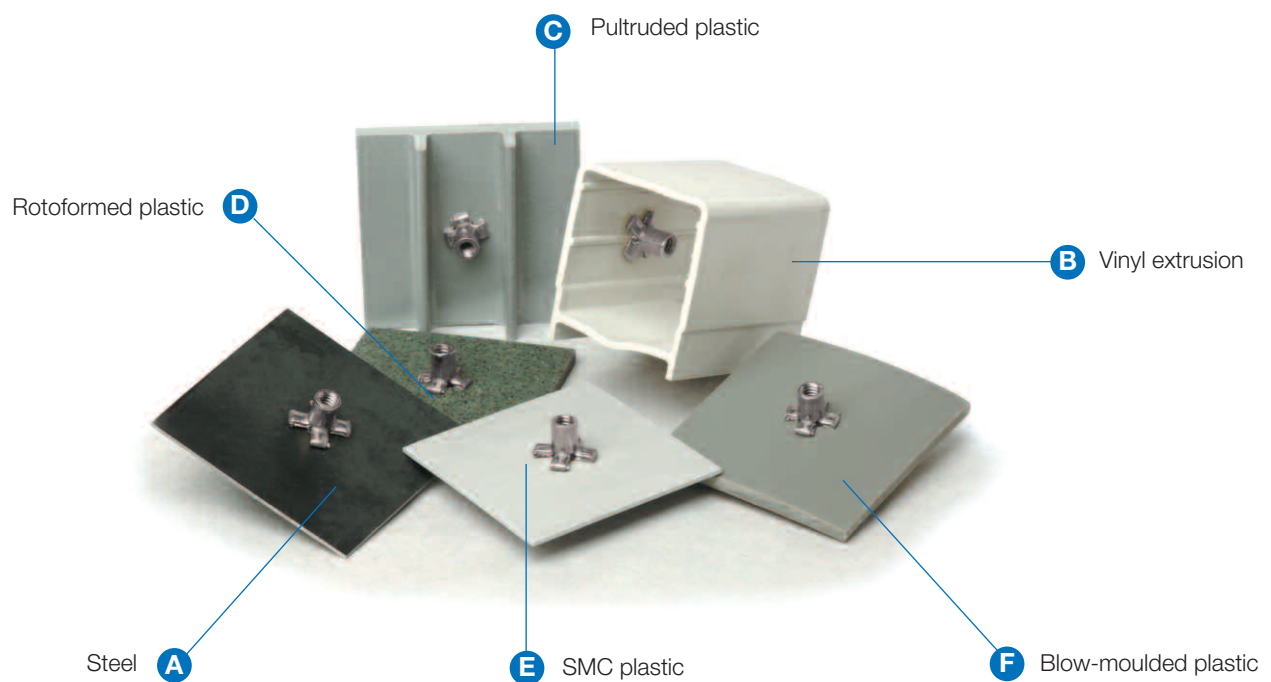
Available in alternative configurations upon request (stud, underhead seal, etc.).

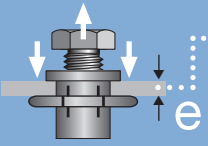
Grip range could be increased in certain specific conditions when associated with substrate material in these cases a prototype validation will be necessary. (Please contact us).

## RIVKLE® PN – Ultimate pull out force

### Advantages:

- Large clamping area for higher pull out resistance (soft and/or thin materials)
- Large bearing surface to reinforce the workpiece
- Minimal radial stresses during installation to reduce the risk of breakage in soft or fragile materials
- Available in steel (aluminium and stainless steel on request) in thread sizes M4 to M10

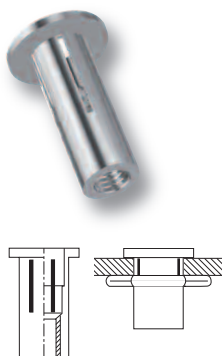









	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>
	e = 0,76 mm	e = 2,92 mm	e = 6,29 mm	e = 3,04 mm	e = 1,65 mm	e = 4,69 mm
<b>RIVKLE® M6</b>	2 130 N	900 N	6 760 N	100 N	600 N	1 250 N
<b>RIVKLE® PN M6</b>	5 400 N	2 750 N	8 400 N	700 N	1 620 N	3 220 N

Test according to BÖLLHOFF specifications.

## RIVKLE® PNP

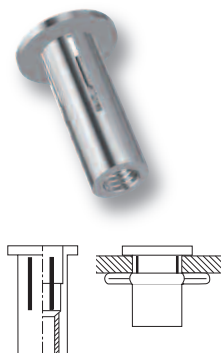
Steel | Flat head | Slotted | Open










									
d (mm)	L (mm)	B (mm)	e (min - max) (mm)	D (mm)	MIN (mm)	MAX (mm)	L <sub>2</sub> (mm)	E (mm)	
<b>M5</b>	22,0	12,7	0,5 - 3,0	7,47	7,48	7,62	9,9	1,0	<b>668 70 511 030</b>
<b>M6</b>	26,9	15,9	0,5 - 5,0	8,79	8,80	8,93	12,8	1,5	<b>668 70 611 050</b>
<b>M8</b>	30,5	19,0	0,5 - 5,0	11,10	11,11	11,50	14,5	1,5	<b>668 70 811 050</b>

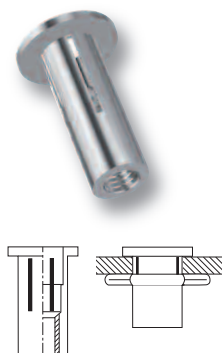
## RIVKLE® PNC - Extended Grip Range








Steel | Flat head | Slotted | Open



									
d (mm)	L (mm)	B (mm)	e (min - max) (mm)	D (mm)	MIN (mm)	MAX (mm)	L2 (mm)	E (mm)	
M4	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	12,7	0,50 - 4,45	7,47	7,48	7,58	9,9	0,95	668 30 511 044
	23,8		4,45 - 8,10	7,97					668 30 511 081
M6	26,9	15,9	0,50 - 7,10	8,79	8,80	8,90	12,8	1,50	668 30 611 071
	32,8		7,10 - 12,7						668 30 611 127
M8	30,5	19,0	0,50 - 7,10	11,10	11,11	11,50	14,5	1,57	668 30 811 071
M10	33,2	22,25	0,50 - 7,10	13,06	13,07	13,26	15,8	2,25	668 31 011 071

Stainless steel | Flat head | Slotted | Open



									
d (mm)	L (mm)	B (mm)	e (min - max) (mm)	D (mm)	MIN (mm)	MAX (mm)	L2 (mm)	E (mm)	
<b>M4</b>	17,6	11,1	0,50 - 3,80	6,12	6,13	6,25	8,6	0,96	<b>668 30</b> 488 038
<b>M5</b>	22,0	12,7	0,50 - 4,45	7,47	7,48	7,58	9,9	0,95	<b>668 30</b> 588 044
	23,8		4,45 - 8,10	7,97					<b>668 30</b> 588 081*
<b>M6</b>	26,9	15,9	0,50 - 7,10	8,79	8,80	8,90	12,8	1,50	<b>668 30</b> 688 071
	32,8		7,10 - 12,7						<b>668 30</b> 688 127*
<b>M8</b>	30,5	19,0	0,50 - 7,10	11,10	11,11	11,50	14,5	1,50	<b>668 30</b> 888 071
<b>M10</b>	33,2	22,2	0,50 - 7,10	13,06	13,07	13,26	15,8	2,24	<b>668 31</b> 088 071*

\*Item not in stock – please contact BÖLLHOFF for availability

## RIVKLE® PN - Tooling

Please use dedicated tooling, see page 56.

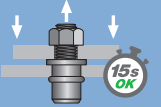
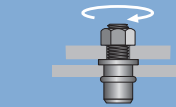
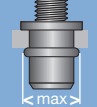


## RIVKLE® – Standard blind rivet Studs

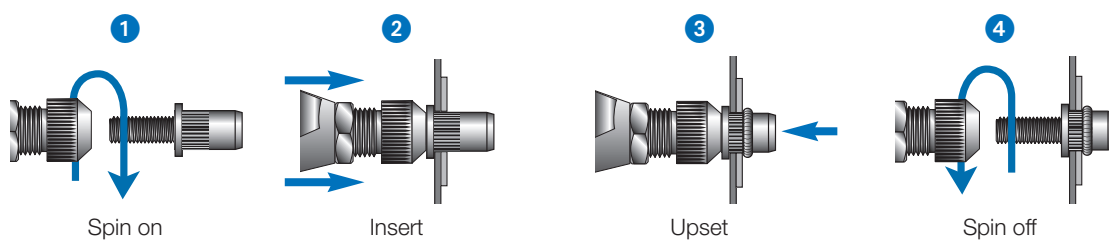
### Advantages:

- Easily pre-position mating parts prior to tightening (useful for heavy or large components or where the mountings are hidden)
- Create a reusable stud thread equivalent to class 8.8 screw
- Offers all the advantages of the RIVKLE® range, i.e. ease and economy of installation, flexibility and environmental sustainability

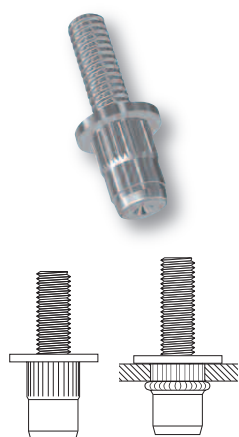


	Ø			
Steel	M5	8 000 N	6,0 Nm	10,1 mm
	M6	11 000 N	10,0 Nm	13,0 mm
	M8	21 000 N	24,0 Nm	15,0 mm

### Setting



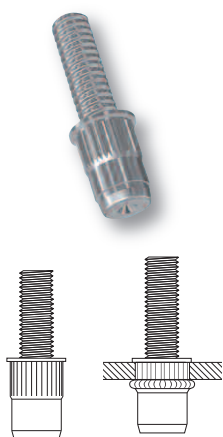


**Steel | Flat head | Knurled**


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

**s:** parts available from stock, package quantity 500 pieces.

Coating: ① = Zn8K+/Fe - ② = ZnNi8A/Fe

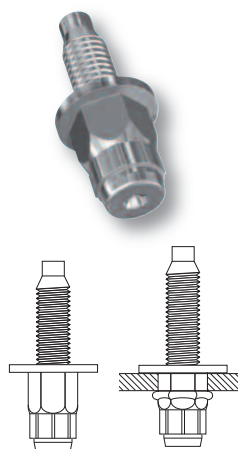
**Steel | Thin head | Knurled**


d (mm)	B (mm)	L1 (mm)	e min - max (mm)	$\varnothing$ $+0,1/0$ (mm)	S (mm)	L2 (mm)	E (mm)	L (mm)		Coating	
										1	2
<b>M6</b>	10,0	15,3	1,0 - 4,0	9,0	S=5,7-e	8,95	0,6	15,4 - 20,4	<b>372 97 060 518</b>		✓
								11,4 - 16,4	<b>372 97 060 519</b>		✓
<b>M8</b>	12,0	17,5	1,0 - 4,0	11,0	S=7,0-e	9,5	0,6	14,5 - 19,5	<b>372 97 080 505</b>		✓
								22,0 - 27,0	<b>372 97 080 507</b>		✓
								22,4 - 27,4	<b>372 97 080 510</b>		✓

Coating: ① = Zn8K+/Fe - ② = ZnNi8A/Fe

## RIVKLE® – Standard blind rivet Studs

### Steel | Flat head | Hexagonal

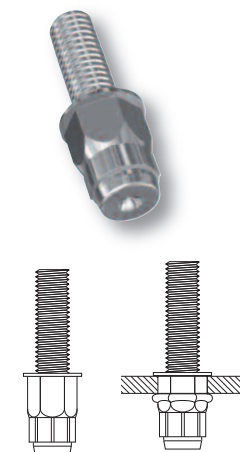


d (mm)	B (mm)	L1 (mm)	e min - max (mm)	$+0.1/0$ (mm)	S (mm)	L2 (mm)	E (mm)	L (mm)		1	2
<b>M5</b>	10,0	12,0	0,5 - 3,0	7,0	S=4,4-e	7,0	1,0	11,5 - 16,0	<b>372 59</b> 050 501*		✓
								16,5 - 21,0	<b>372 91</b> 060 506		✓
<b>M6</b>	13,0	14,3	0,5 - 3,0	9,0	S=4,8-e	8,0	1,5	12,5 - 17,0	<b>372 91</b> 060 517*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

\* references without dog point

Coating: ① = Zn8K+/Fe ; ② = ZnNi8A/Fe

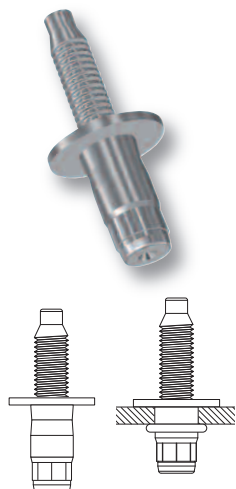
### Steel | Thin head | Hexagonal



d (mm)	B (mm)	L1 (mm)	e min - max (mm)	$+0.1/0$ (mm)	S (mm)	L2 (mm)	E (mm)	L (mm)	
<b>M8</b>	13,5	20,2	3,0 - 5,5	11,0	S=8,0-e	11,7	0,5	28,0 - 32,0	<b>372 91</b> 080 504

**SFC**

Steel | Flat head | Knurled

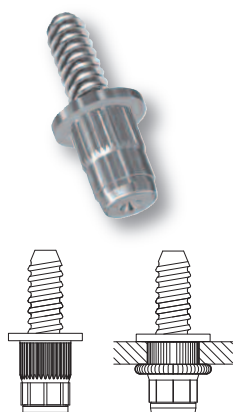


d (mm)	B (mm)	L1 (mm)	e min - max (mm)	+0.5/-0.1 (mm)	(N)	L2 (mm)	E (mm)	L (mm)		
<b>M6</b>	18,0	19,8 18,3	2,0 - 3,5	9,1	11 600	13,0	1,5	25,0 - 28,0 16,5 - 19,5	<b>372 91</b> 060 522	
									<b>372 91</b> 060 525	

Coating: ① = Zn8K+/Fe ; ② = ZnNi8A/Fe

**Fir Tree studs**

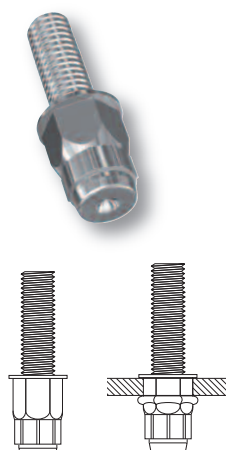
Steel | Flat head | Fir Tree studs



d (mm)	B (mm)	L1 (mm)	e min - max (mm)	+0.5/-0.1 (mm)	S (mm)	L2 (mm)	E (mm)	L (mm)		
<b>D5</b>	10,0	10,2 10,2 11,6	0,5 - 3,0 0,5 - 3,0 1,5 - 4,0	7,0	S=4,8-e S=4,8-e S=5,7-e	5,5 5,5 6,0	1,0	12,0 - 16,5 14,5 - 19,0 14,0 - 18,5	<b>372 97</b> 059 505 <b>372 97</b> 059 507 <b>372 97</b> 059 508	
<b>D6</b>	13,0	12,7 12,7 12,7 12,7 15,4 15,4 15,4	0,5 - 3,0 0,5 - 3,0 0,5 - 3,0 0,5 - 3,0 3,0 - 5,5 3,0 - 5,5 3,0 - 5,5	9,0	S=4,8-e S=4,8-e S=4,8-e S=4,8-e S=7,7-e S=7,7-e S=7,7-e	8,0 8,0 8,0 8,0 8,0 8,0 8,0	1,5	19,0 - 23,5 14,0 - 18,5 11,5 - 16,0 21,5 - 26,0 11,5 - 16,0 14,0 - 18,5 19,0 - 23,5	<b>372 97</b> 069 501 <b>372 97</b> 069 502 <b>372 97</b> 069 503 <b>372 97</b> 069 507 <b>372 97</b> 069 504 <b>372 97</b> 069 505 <b>372 97</b> 069 506	

Coating: ① = Zn8K+/Fe ; ② = ZnNi8A/Fe

Stainless steel | Thin head | Hexagonal



d (mm)	B (mm)	L1 (mm)	e min - max (mm)	+0.1/0 (mm)	S (mm)	L2 (mm)	E (mm)	L (mm)		
<b>M5</b>	10,0	13,35	0,5 - 3,0	7,0	S=4,4-e	8,5	0,5	15,5 - 18,0 20,5 - 23,0 25,5 - 28,0	<b>372 98</b> 050 502 <b>372 98</b> 050 503 <b>372 98</b> 050 504	
<b>M6</b>	13,0	15,65	0,5 - 3,0	9,0	S=4,4-e	10,8	0,5	15,5 - 18,0 20,5 - 23,0 25,5 - 28,0	<b>372 98</b> 060 506 <b>372 98</b> 060 507 <b>372 98</b> 060 508	

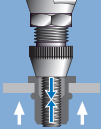
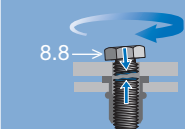
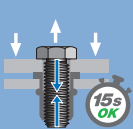
All RIVKLE® stainless steel studs are lubricated.

# RIVKLE® – Waterproof









Advantages:

- Integrated sealing function
- Pre-applied seal
- Stable tensile strength in the mating screw



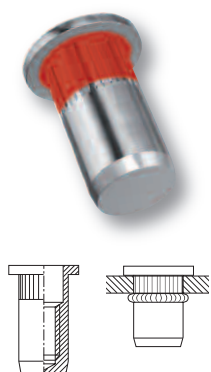
Ø			
M5	8 000 N	RIVKLE® reusable*	10 000 N
M6	12 000 N	RIVKLE® reusable*	15 000 N
M8	18 000 N	RIVKLE® reusable*	27 000 N
Same performance as standard RIVKLE®			

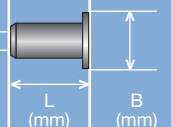
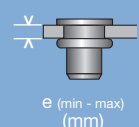
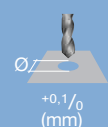
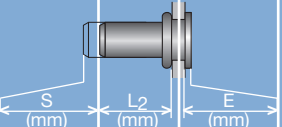

\*RIVKLE® is more resistant than screw property class 8.8

				Head					
	Process type	Temperature	Water resistance	Flat	Thin	Countersunk	Setting range influence	Automation capability	Oversize hole
<b>O-Ring</b> 	Addition of an under head o-ring	240°C	IPX7 (EN 60529)	+++			No	Yes	No
<b>Injected polyamide ring</b> 	Over-moulding	210°C	IPX7 (EN 60529)	 E > 2,0mm			No	Yes	No
<b>Injected plastic joint</b> 	Over-moulding	180°C	IPX7 (EN 60529)	 E > 2,5mm			No	Yes	No
<b>Sealcote Pre-applied sealing</b> 	Coating and heating	150°C	IPX4 / IPX7* (EN 60529)	+++	++	++	Yes	No	Yes

\* tests should be undertaken in actual application conditions

#### Stainless steel

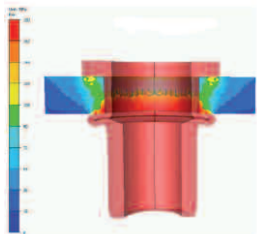


								
d (mm)	L (mm)	B (mm)	e (min - max) (mm)	+0.1/0 (mm)	S (mm)	L2 (mm)	E (mm)	
<b>M5</b>	17,8	9,0	0,7 - 1,5	7,1	S=2,8-e	14,0	1,0	<b>233 96</b> 050 503
	19,3		1,5 - 3,0		S=4,5-e			<b>233 96</b> 050 504
<b>M6</b>	18,3	11,0	0,7 - 1,5	9,1	S=2,4-e	13,7	1,5	<b>233 96</b> 060 508
	19,8		1,5 - 3,0		S=4,7-e			<b>233 96</b> 060 509
<b>M8</b>	21,3	14,0	0,8 - 1,5	11,1	S=3,2-e	16,6	1,5	<b>233 96</b> 080 503
	22,8		1,5 - 3,0		S=4,7-e			<b>233 96</b> 080 504



RIVKLE® - Shouldered

Specific design to avoid radial deformation and ensure that bulge is generated outside the part and comes into contact with the under-side of panel.



Ø	 e (min - max) (mm)*	Material		
M6	2,6 - 5,4	Steel	ZnNi8A/Fe	233 91 060 936
M6	3,6 - 3,9			233 97 060 727

\* grip min is unique grip if polymer on bulge side



RIVKLE® - Knurled shank and under-head ribs

2 anti-turn functions. The sharp edges (knurled) behaviour is linked to grip range. Ribs under head give the best results but should be avoided on fragile materials (Eg: Thermoset) due to risk of cracking.



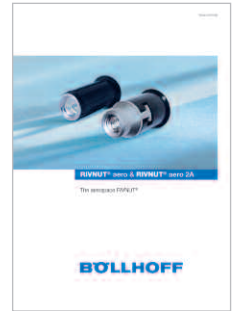
Ø	 e (min - max) (mm)*	Material		
M6	2,4 - 4,5	Steel	ZnNi8A/Fe	233 97 060 707
M8	4,0 - 6,5			233 97 080 705



## **RIVNUT® Aero - RIVNUT® Aero 2A**

this fixation has been developed to provide high strength, self locking blind rivet nuts in carbon reinforced composite. RIVNUT® Aero retains it's locking function over time (even after several re-uses) and can be installed from one side (no access hole necessary).

A dedicated brochure has been created for this product, please contact BÖLLHOFF or visit our website.



## **RIVKLE® - Other concepts**

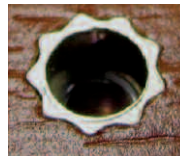
### **RIVKLE® Elliptic Head**


















Efficient anti-turn function for soft substrates  
See reference page 37



### **RIVKLE® Star Head**

Flush finish with anti-turn - Ideal for wood



			M3	M4	M5	M6	M8	M10	M12	M14	
Manual tools	RIVKLE® BRK 01										49
	RIVKLE® M2007				*	*	*	*	*		49
	RIVKLE® BRK 10										50
	RIVKLE® ES 51										50
	RIVKLE® OPTEX										50
Power tools	RIVKLE® P2005										52
	RIVKLE® P1007										52
	RIVKLE® P2007										53
	RIVKLE® B2007										53
	RIVKLE® P3007										54
	RIVKLE® P2007 PN			**	**	**	**				54
	RIVKLE® P3007 PN						**	**			54
	RIVKLE® EPX009										55
Semi-automated tools	RIVKLE® EPK C										59
	RIVKLE® EPK HP										59
Automated tools	RIVKLE® HSA 2.0										59
	RIVKLE® ESA 2.0										59

\* RIVKLE® PN

\*\*RIVKLE® & RIVKLE® PN




# RIVKLE® – Hand operated assembly tools

## RIVKLE® BRK 01 - Manual assembly tool

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

Tooling included (M3 - M6)

 600 g

 **235 119 00000**


### RIVKLE® BRK01 Kit

		<div>RIVKLE® Plus</div> <div>24H</div> <div></div>											
235 119 00501	x1	M3	M4	M5	M6	M8	M10	M4	M5	M6	M8	M10	
235 119 00502	x1							x50	x50	x50			

## RIVKLE® M2007 - Manual assembly tool



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

Tooling included (M5 - M12)

 1200 g

 **235 302 01000**


### RIVKLE® M2007 Kit

													
<b>235 302 01000</b>	x1	M5	M6	M8	M10	M12	M6	M8	M10	M6	M8	M10	
<b>235 302 01001</b>	x1												
<b>235 302 01002</b>	x1												
		UNC			UNF								
		10-24	1/4-20	5/16-18	10-32	1/4-28	5/16-24						
<b>235 302 01003</b>	x1												

## RIVKLE® BRK 10 - Lever type assembly tool

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

Tooling included (M5 - M10)

 Kg 1900 g

 235 120 00 000



## RIVKLE® ES 51 - Hydraulic manual assembly tool

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



Tooling not included

 Kg 2700 g

 235 118 00 000



## RIVKLE® OPTEX - Hexagonal punching and assembly tool

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



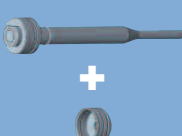




Tooling included (M5 - M8)








 Kg 2100 g





 235 110 00 000














# Tooling equipment

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

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

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

RIVKLE® ES 51				Ø RIVKLE®				
				M6	M8	M10	M12	M14
	Mandrel		235 108 XX 020	06	08	10	12	14
	Anvil		235 108 XX 030	06	08	10	12	14
				↑	↑	↑	↑	↑

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

Stroke controlled installation equipment

RIVKLE® P2005

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

Fmax = 21 000 N\*

\*Up to 26 000 N  
with 6,5 bar input

 2600 g

 236 155 01 000

Tooling not included  
(see page 56)




Pressure controlled installation equipment

RIVKLE® P1007 - Lightweight tool for speed and accessibility

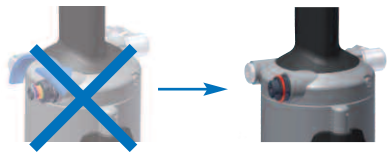
	Ø RIVKLE®							
	M3	M4	M5	M6	M8	M10	M12	M14
Steel								
Stainless steel								
Aluminium								

F = 3 500 N => 13 000 N

 1800 g

 236 157 01 000

Tooling not included  
(see page 56)



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.



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

## Pressure controlled installation equipment

### RIVKLE® P2007 - Flexible and versatile

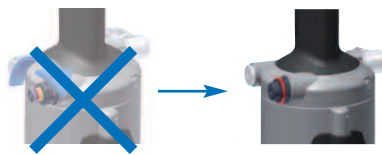
	Ø RIVKLE®							
	M3	M4	M5	M6	M8	M10	M12	M14
Steel								
Stainless steel								
Aluminium								

**F** = 3 500 N => 21 000 N

 **Kg** 2200 g

 **236 156 01 000**

Tooling not included  
(see page 56)



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 - Battery tool

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

**F** = 3 000 N => 22 000 N



 **Kg** 2490 g

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

Tooling not included (see page 56)

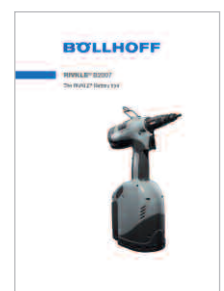


Comparable weight to the RIVKLE® P2007 when fitted with hose

 <b>RIVKLE® B2007</b>	Tool + Tooling + Battery				Total weight
	2,12	+	0,07	+	0,30
 <b>RIVKLE® P2007</b> Pneumatic	Tool + Tooling + Pneumatic				Total weight
	2,20	+	0,07	+	0,33

**You Tube**  

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




Pressure controlled installation equipment

RIVKLE® P3007 - Powerfull and robust construction

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

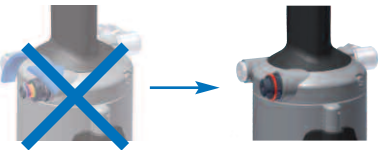
F = 24 000 N => 40 000 N

 3400 g

 236 159 01000

Adapted for RIVKLE® HRT from M6

Tooling not included  
(see page 56)



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								

Fmax = 14 500 N

 2400 g

 236 158 01000

Tooling not included  
(see page 56)




RIVKLE® P3007 PN



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

Fmax = 25 000 N

 3100 g

 236 160 01000

Tooling not included  
(see page 56)



# RIVKLE® EPX009 Process Control

			RIVKLE®							
			M3	M4	M5	M6	M8	M10	M12	M14
<b>RIVKLE® EP1009</b>	<b>282 522 15 000</b>	2 050 g								
<b>RIVKLE® EP2009</b>	<b>282 522 16 000</b>	2 450 g								
<b>RIVKLE® EP3009</b>	<b>282 522 17 000</b>	3 320 g								
<b>RIVKLE® EP2009 PN</b>	<b>282 522 18 000</b>	2 450 g								
<b>RIVKLE® EP3009 PN</b>	<b>282 522 19 000</b>	3 320 g								



Tooling not included (see page 56)

- Association of a force hydraulic/pneumatic assembly tool with a setting stroke control process
- Constant warranty of perfect setting

## Options

Acknowledgement  
by key



Acknowledgement  
by button



Acknowledgement  
by RFID



Stack light  
repeater



Multi-energy  
hose



The generic code of a RIVKLE® EPX009 configured with options is: **282 520 00001**. Contact us for more information.

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

# RIVKLE® FC340 - Force controller

**F** = 0 N => 40 000 N (+/-3%)



Available with and without certification







Tooling kit not included

**You Tube** RIVKLE FC340
















	<b>282 522 14 000</b>
	<b>282 522 14 800</b>
	<b>282 522 14 900</b>

## TOOLING KIT











			S TAVEL									
Washer + Nut				M3	M4	M5	M6	M8	M10	M12	M14	M16
			282 522 14 1XX	03	04	05	06	08	10	12	14	16
				-	M4	M5	D5	M6	D6	M8	D8	M10
			282 522 14 XXX	-	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 / P1007 / 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 / P1007 / 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



RIVKLE® P2005 / P1007 / P2007				Ø RIVKLE® Fir tree stud	
				D5	D6
Mandrel			376 913 XX XXX	05 401	*(7)
Anvil			376 113 XX XXX	05 030	06 030






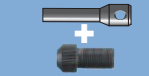





RIVKLE® P2007 PN				Ø RIVKLE®								
				M3	M4	M5	M6	M8	M10	M12	M14	M16
Mandrel			236 913 XX XXX	–	04 094	05 094	06 127	08 101	*(5)	–	–	–
Anvil			236 913 XX XXX	–	04 086	05 095	06 128	08 087	10 010	–	–	–
RIVKLE® P3007 PN												
Mandrel			236 913 XX XXX	–	–	–	–	08 101	*(5)	–	–	–
Anvil			236 913 XX XXX	–	–	–	–	08 087	10 010	–	–	–
				↑	↑	↑	↑	↑	↑	↑	↑	↑




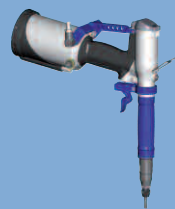
























\*(1) = 236 153 12 020    \*(2) = 236 153 12 030    \*(3) = 376 913 10 020    \*(4) = 376 913 10 030    \*(5) = 236 913 10 006    \*(6) = 236 923 78 030    \*(7) = 563 500 50 010



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

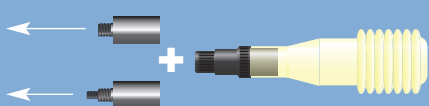
## Accessories

Ring		236 803 00 008
Pin		236 803 00 009

					
	KIT				
RIVKLE® P2005	236 155 00 305	236 155 01 001			
RIVKLE® P1007	236 157 00 301	236 157 01 001			
RIVKLE® P2007	236 156 00 301	236 156 01 001			
RIVKLE® P2007 PN		—			
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
<b>RIVKLE® B2007</b>	<b>282 590 30 350</b>	<b>282 590 30 351</b>	<b>282 590 30 352</b>	<b>282 590 30 354</b>	<b>282 590 30 356</b>	<b>236 166 00 308</b>	See page 58

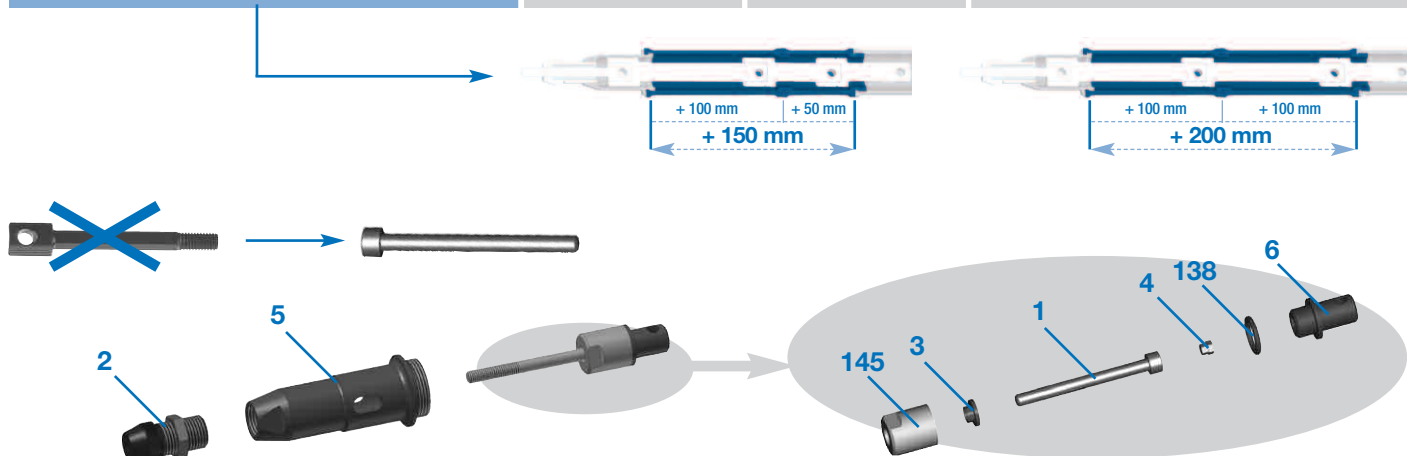
## Refill & purge accessory

RIVKLE® P1007 / P2007 / P2005		236 114 00 970
RIVKLE® B2007		236 166 00 309

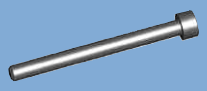





## Accessories

		RIVKLE® P2005	RIVKLE® P1007	RIVKLE® P2007 RIVKLE® P2007PN RIVKLE® 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	



KIT = A + B + C						
<div><div><div>A</div><div>5</div></div><div>RIVKLE® B2007 = original nose</div></div>				<div><div><div>B</div><div>145 + 138 + 6</div></div><div>RIVKLE® B2007</div></div>		<div><div><div>C</div><div>1 + 2 + 3 + 4</div></div></div>
	RIVKLE® P2005	RIVKLE® P1007	RIVKLE® P2007	PX007 + P2005		
M3						236 803 03 000
M4						236 803 04 000
M5						236 803 05 000
M6						236 803 06 000
M8						236 803 08 000

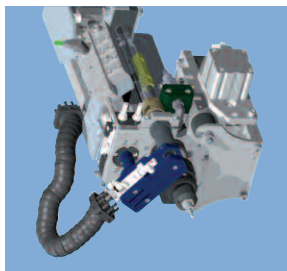
	 ISO4762 DIN912	 2	 3	 4
M3	M3 x 60 236 803 03 020	236 113 03 030	236 803 03 040	236 803 03 010
M4	M4 x 60 236 803 04 020	236 113 04 030	236 803 04 040	236 803 04 010
M5	M5 x 65 236 803 05 020	236 113 05 030	236 803 05 040	236 803 05 010
M6	M6 x 65 236 803 06 020	236 113 06 030	236 803 06 040	236 803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

## **RIVKLE®** – Special installation machines



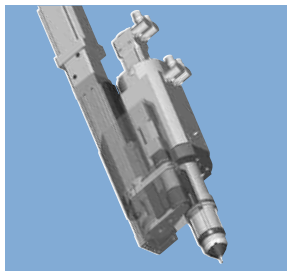
### **RIVKLE® EPK C / EPK HP**

Hydraulic pneumatic tool with process control



### **RIVKLE® HSA 2.0**

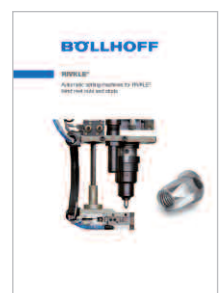
Setting head with automatic loading system



### **RIVKLE® ESA 2.0**

Electrical setting head

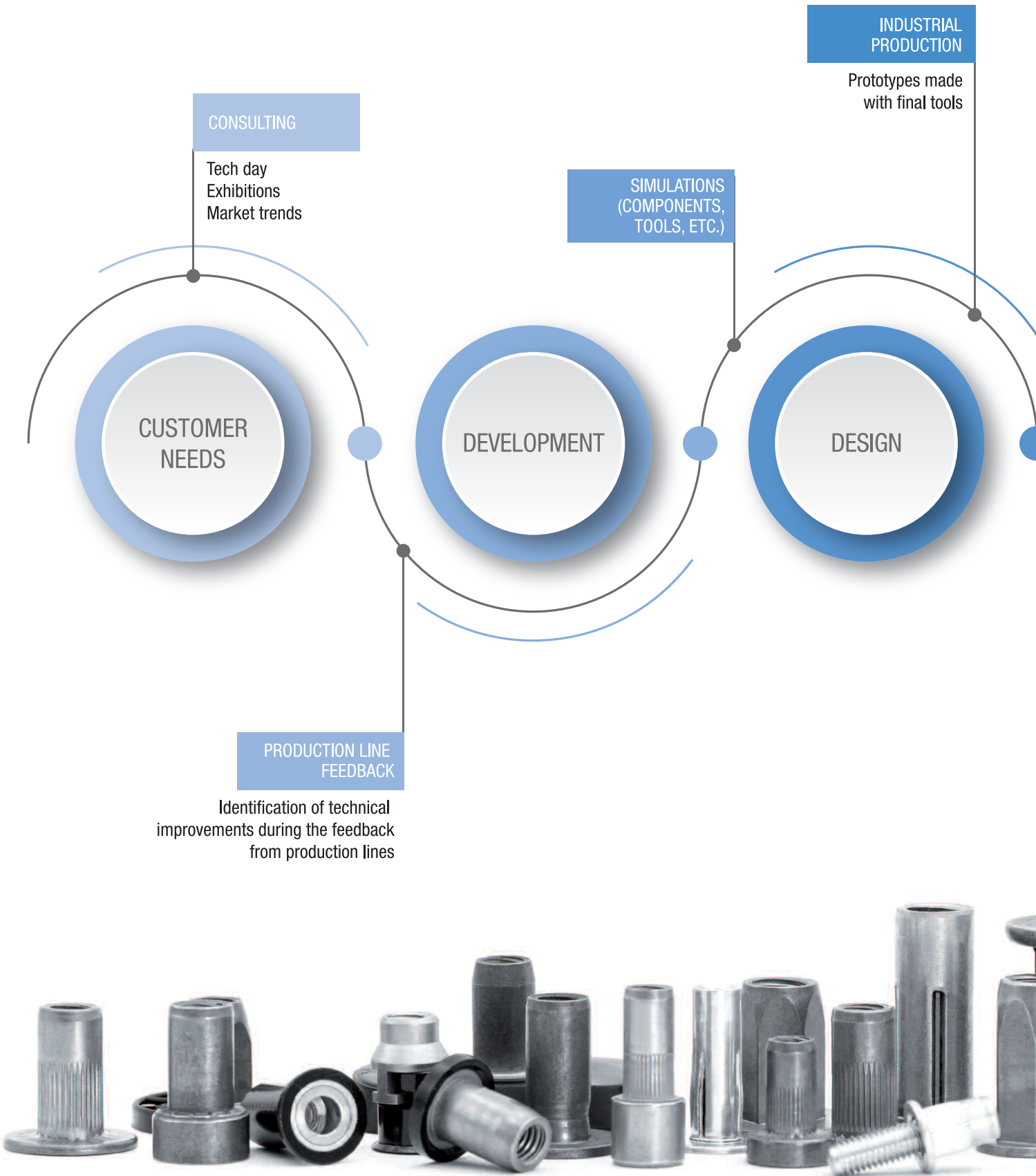
A dedicated brochure has been created for those products, please contact BÖLLHOFF.

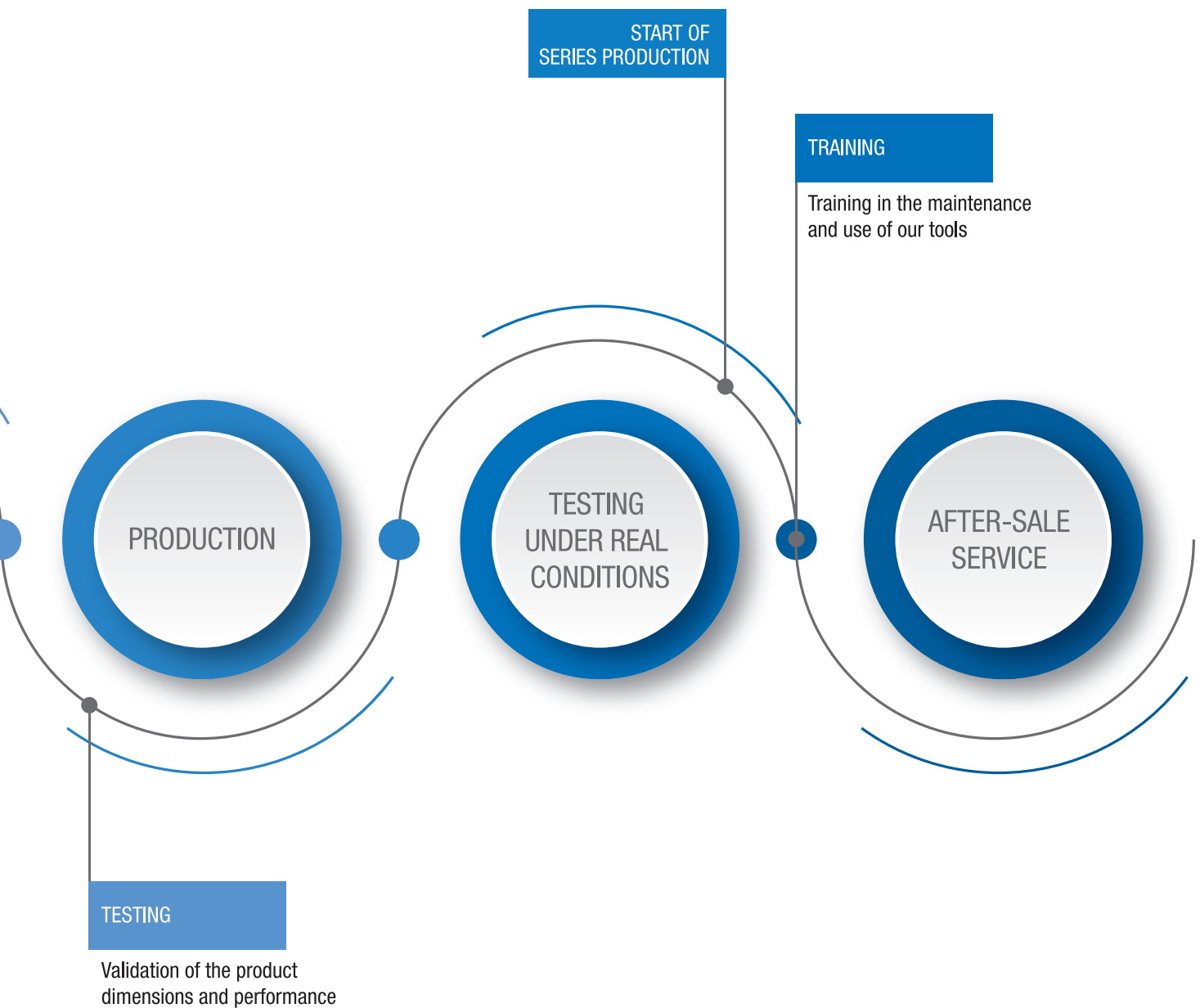


# BÖLLHOFF is the only supplier for your assembly components and associated tools













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.

















# RIVKLE® – Part number index

											
<b>232 40</b> 060030	<b>35</b>	233 06 120045	27	233 16 050030	28	233 21 080080	21	233 31 060040	22	233 48 040040	25
232 40 080030	35	233 06 120060	27	233 16 050040	28	233 21 080105	21	233 31 060065	22	233 48 050030	25
<b>232 49</b> 080502	<b>35</b>	<b>233 07</b> 030100	<b>18</b>	233 16 060400	28	233 21 100035	21	233 31 060090	22	233 48 050040	25
<b>232 90</b> 050501	<b>35</b>	233 07 030175	18	233 16 060050	28	233 21 100060	21	233 31 080040	22	233 48 060001	25
<b>232 91</b> 060502	<b>35</b>	233 07 030250	18	233 16 060060	28	233 21 100085	21	233 31 080065	22	233 48 060045	25
232 91 080504	35	233 07 030325	18	233 16 080030	28	233 21 120040	21	233 31 080090	22	233 48 080001	25
232 91 100503	35	233 07 040230	18	233 16 080040	28	233 21 120070	21	233 31 100040	22	233 48 080002	25
232 91 100501	35	233 07 040325	18	233 16 080050	28	<b>233 24</b> 040020	<b>30</b>	233 31 100065	22	233 48 100035	25
232 91 124501	35	233 07 050040	18	233 16 080060	28	233 24 050030	30	233 31 100090	22	233 48 100055	25
<b>233 00</b> 030020	<b>32</b>	233 07 050230	18	233 16 100045	28	233 24 060030	30	233 31 120045	22	233 48 120045	25
233 00 030035	32	233 07 060230	18	233 16 100060	28	233 24 080030	30	233 31 120075	22	<b>233 49</b> 050531	<b>25</b>
233 00 040025	32	233 07 060255	18	233 16 120030	28	<b>233 26</b> 030015	<b>27</b>	233 31 120105	22	233 49 060509	25
233 00 040046	32	233 07 080230	18	233 16 120045	28	233 26 030025	27	<b>233 36</b> 030020	<b>28</b>	233 49 080546	25
233 00 050030	32	233 07 080255	18	233 16 120060	28	233 26 030032	27	233 36 030030	28	<b>233 51</b> 040020	<b>16</b>
233 00 050056	32	233 07 100235	18	<b>233 17</b> 030175	<b>19</b>	233 26 040015	27	233 36 040020	28	233 51 050030	16
233 00 060030	32	233 07 100450	18	233 17 030250	19	233 26 040030	27	233 36 040030	28	233 51 060030	16
233 00 060056	32	<b>233 08</b> 040020	<b>29</b>	233 17 030325	19	233 26 040042	27	233 36 040040	28	233 51 080030	16
233 00 080030	32	233 08 040035	29	233 17 040175	19	233 26 050015	27	233 36 050020	28	233 51 080055	16
233 00 080056	32	233 08 040030	29	233 17 040250	19	233 26 050030	27	233 36 050040	28	233 51 100035	16
233 00 100035	32	233 08 050030	29	233 17 040325	19	233 26 050040	27	233 36 060030	28	<b>233 58</b> 030023	<b>25</b>
233 00 100060	32	233 08 050400	29	233 17 050200	19	233 26 060015	27	233 36 060040	28	233 58 030030	25
<b>233 01</b> 030010	<b>20</b>	233 08 060300	29	233 17 050300	19	233 26 060030	27	233 36 060050	28	233 58 040020	25
233 01 030015	20	233 08 060450	29	233 17 050400	19	233 26 060045	27	233 36 060060	28	233 58 040040	25
233 01 030030	20	233 08 080300	29	233 17 050500	19	233 26 060060	27	233 36 080030	28	233 58 050001	25
233 01 030045	20	233 08 080450	29	233 17 060300	19	233 26 080015	27	233 36 080040	28	233 58 050040	25
233 01 030060	20	233 08 100300	29	233 17 060450	19	233 26 080030	27	233 36 080050	28	233 58 060030	25
233 01 040010	20	233 08 100450	29	233 17 060600	19	233 26 080045	27	233 36 100030	28	233 58 060045	25
233 01 040020	20	233 08 100600	29	233 17 080300	19	233 26 100015	27	233 36 100045	28	233 58 080001	25
233 01 040040	20	<b>233 09</b> 050501	<b>27</b>	233 17 080450	19	233 26 100030	27	233 36 100060	28	233 58 080055	25
233 01 040060	20	233 09 060501	27	233 17 080600	19	233 26 100045	27	233 36 120030	28	233 58 100035	25
233 01 050030	20	233 09 080501	27	233 17 080750	19	233 26 100060	27	233 36 120045	28	233 58 100055	25
233 01 050055	20	<b>233 10</b> 030035	<b>33</b>	233 17 100300	19	233 26 120015	27	233 36 120060	28	233 58 120045	25
233 01 050080	20	233 10 030050	33	233 17 100450	19	233 26 120030	27	<b>233 37</b> 040175	<b>19</b>	<b>233 91</b> 050795	<b>37</b>
233 01 060030	20	233 10 040036	33	233 17 100600	19	233 26 120045	27	233 37 040250	19	233 91 050796	37
233 01 060055	20	233 10 040050	33	<b>233 18</b> 040250	<b>29</b>	233 26 120060	27	233 37 040325	19	233 91 060968	37
233 01 060080	20	233 10 050040	33	233 18 040325	29	<b>233 27</b> 040175	<b>18</b>	233 37 050200	19	233 91 060971	37
233 01 080030	20	233 10 050065	33	233 18 050300	29	233 27 040250	18	233 37 050300	19	233 91 060969	37
233 01 080055	20	233 10 060046	33	233 18 050400	29	233 27 040325	18	233 37 050400	19	233 91 060970	37
233 01 080080	20	233 10 060065	33	233 18 060300	29	233 27 050100	18	233 37 050500	19	233 91 060995	37
233 01 080105	20	233 10 080046	33	233 18 060450	29	233 27 050200	18	233 37 060300	19	233 91 080848	37
233 01 080105	20	233 10 080065	33	233 18 060600	29	233 27 050300	18	233 37 060450	19	233 91 080849	37
233 01 100035	20	233 10 100046	33	233 18 080300	29	233 27 050400	18	233 37 060600	19	233 91 060936	48
233 01 100060	20	233 10 100065	33	233 18 080450	29	233 27 060030	18	233 37 060750	19	<b>233 94</b> 060598	<b>37</b>
233 01 100085	20	<b>233 11</b> 030015	<b>22</b>	233 18 080600	29	233 27 060450	18	233 37 080300	19	<b>233 96</b> 050503	<b>45</b>
233 01 100110	20	233 11 030030	22	233 18 080600	29	233 27 060450	18	233 37 080450	19	233 96 050504	45
233 01 120040	20	233 11 030045	22	233 18 100300	29	233 27 080350	18	233 37 080600	19	233 96 060508	45
233 01 120070	20	233 11 030060	22	233 18 100450	29	233 27 080500	18	233 37 080750	19	233 96 060509	45
233 01 120100	20	233 11 030060	22	233 18 100600	29	233 27 100150	18	233 37 100300	19	233 96 080503	45
233 01 140600	20	233 11 040020	22	<b>233 20</b> 030020	<b>32</b>	233 27 100300	18	233 37 100450	19	233 96 080504	45
<b>233 04</b> 040020	<b>30</b>	233 11 040030	22	233 20 030035	32	233 27 100600	18	233 37 100600	19	<b>233 97</b> 060707	<b>46</b>
233 04 050030	30	233 11 040050	22	233 20 040030	32	<b>233 30</b> 030035	<b>33</b>	<b>233 41</b> 040020	<b>16</b>	233 97 060727	46
233 04 060030	30	233 11 040070	22	233 20 040045	32	233 30 030050	33	233 41 050030	16	233 97 080705	46
233 04 080030	30	233 11 050040	22	233 20 050031	32	233 30 040035	33	233 41 050045	16	<b>235 10</b> 806020	<b>51</b>
<b>233 06</b> 030015	<b>27</b>	233 11 050065	22	233 20 050055	32	233 30 040050	33	233 41 060030	16	235 10 806030	51
233 06 030025	27	233 11 050090	22	233 20 060055	32	233 30 050045	33	233 41 060055	16	235 10 808020	51
233 06 040042	27	233 11 060040	22	233 20 060065	32	233 30 060045	33	233 41 080030	16	235 10 808030	51
233 06 040230	27	233 11 060065	22	233 20 080031	32	233 30 060065	33	233 41 080055	16	235 10 810020	51
233 06 050045	27	233 11 080040	22	233 20 080055	32	233 30 080045	33	233 41 100035	16	235 10 810030	51
233 06 050233	27	233 11 080090	22	233 20 100060	32	233 30 080065	33	233 41 100060	16	235 10 812020	51
233 06 060045	27	233 11 100040	22	<b>233 21</b> 030015	<b>21</b>	233 30 100045	33	233 41 120030	16	235 10 812030	51
233 06 060060	27	233 11 100065	22	233 21 030030	21	233 30 100065	33	233 41 040230	15	235 10 814020	51
233 06 060233	27	233 11 100090	22	233 21 030045	21	<b>233 31</b> 030015	<b>22</b>	233 41 050230	15	235 10 814030	51
233 06 080060	27	233 11 120045	22	233 21 040020	21	233 31 030030	22	233 41 060230	15	<b>235 11</b> 000000	<b>50</b>
233 06 080233	27	233 11 120075	22	233 21 040040	21	233 31 030045	22	233 41 080230	15	235 11 005020	51
233 06 080255	27	233 11 120105	22	233 21 040060	21	233 31 030060	22	<b>233 44</b> 040020	<b>31</b>	235 11 005021	51
233 06 100015	27	<b>233 16</b> 030020	<b>28</b>	233 21 050030	21	233 31 040020	22	233 44 050030	31	235 11 005030	51
233 06 100030	27	233 16 030030	28	233 21 050055	21	233 31 040030	22	233 44 060030	31	235 11 005031	51
233 06 100045	27	233 16 040020	28	233 21 050080	21	233 31 040050	22	233 44 080030	31	235 11 006020	51
233 06 100060	27	233 16 040030	28	233 21 060030	21	233 31 040070	22	<b>233 48</b> 030023	<b>25</b>	235 11 006021	51
233 06 120015	27	233 16 040040	28	233 21 060055	21	233 31 050040	22	233 48 030030	25		
233 06 120030	27	233 16 050020	28	233 21 060080	21	233 31 050065	22	233 48 040020	25		
				233 21 080030	21	233 31 050090	22				
				233 21 080055	21						



											
235 11 006030	51	236 15 701001	57	282 52 214114	55	343 48 060025	24	343 76 040042	26	372 91 060506	42
235 11 006031	51	236 15 801000	54	282 52 214116	55	343 48 080030	24	343 76 050020	26	372 91 060509	42
235 11 008020	51	236 15 900301	57	282 52 214204	55	343 48 100035	24	343 76 050030	26	372 91 060517	42
235 11 008021	51	236 15 901000	54	282 52 214205	55			343 76 050045	26	372 91 060522	43
235 11 008030	51	236 15 901001	57	282 52 214206	55	<b>343 49</b> 040506	<b>24</b>	343 76 060015	26	372 91 060525	43
235 11 008031	51	236 15 908020	56	282 52 214208	55	343 49 040507	24	343 76 060030	26	372 91 080502	42
235 11 067006	51	236 15 908030	56	282 52 214210	55	343 49 050538	24	343 76 060045	26	372 91 080504	42
235 11 800000	50	236 15 910020	56	282 52 214505	55	343 49 100501	24	343 76 060060	26	372 91 080507	42
235 11 900000	49	236 15 910030	56	282 52 214506	55			343 76 080015	26	372 91 080510	42
235 11 900501	49	236 15 912020	56	282 52 214508	55	<b>343 51</b> 040020	<b>14</b>	343 76 080030	26		
235 11 900502	49	236 15 912030	56	282 52 214800	55	343 51 050030	14	343 76 080045	26	<b>372 97</b> 059505	<b>43</b>
235 11 903001	51	236 15 914020	56	282 52 214900	55	343 51 060030	14	343 76 080060	26	372 97 059507	43
235 11 904001	51	236 15 914030	56	282 52 215000	55	343 51 080030	14	343 76 100015	26	372 97 059508	43
235 11 905001	51	236 15 916020	56	282 52 216000	55	343 51 080060	14	343 76 100030	26	372 97 060518	41
235 11 906001	51	236 15 916030	56	282 52 217000	55	343 51 100060	14	343 76 100045	26	372 97 060519	41
				282 52 218000	55			343 76 100060	26	372 97 069501	43
<b>235 12</b> 000000	<b>50</b>	<b>236 16</b> 001000	<b>54</b>	282 52 219000	55	<b>343 58</b> 040025	<b>24</b>	343 76 120015	26	372 97 069502	43
235 12 005001	51	236 16 600300	54			343 58 050020	24	343 76 120030	26	372 97 069503	43
235 12 006001	51	236 16 600303	56	<b>282 59</b> 010152	<b>57</b>	343 58 060030	24	343 76 120045	26	372 97 069504	43
235 12 008001	51	236 16 600304	56	282 59 010664	57	343 58 060055	24	343 76 120060	26	372 97 069505	43
235 12 010001	51	236 16 600308	57	282 59 010665	57					372 97 069506	43
		236 16 600309	57	282 59 010789	58	<b>343 59</b> 040505	<b>24</b>	<b>343 77</b> 030015	<b>17</b>	372 97 069507	43
<b>235 30</b> 201000	<b>49</b>	236 16 601000	53	282 59 010790	58	343 59 050505	24	343 77 030030	17	372 97 080505	41
235 30 201001	49	236 16 701000	53	282 59 010791	58			343 77 040030	17	372 97 080507	41
235 30 201002	49			282 59 010792	58	<b>343 64</b> 050030	<b>30</b>	343 77 040040	17	372 97 080510	41
235 30 205020	51	<b>236 80</b> 300005	<b>58</b>	282 59 010820	57	343 64 060030	30	343 77 050025	17		
235 30 205030	51	236 80 300008	57	282 59 010984	58	343 64 080030	30	343 77 050040	17	<b>372 98</b> 050502	<b>43</b>
235 30 206020	51	236 80 300009	57	282 59 010985	58			343 77 060031	17	372 98 050503	43
235 30 206030	51	236 80 300216	58	282 59 010986	58	<b>343 66</b> 030015	<b>26</b>	343 77 060045	17	372 98 050504	43
235 30 208020	51	236 80 303000	58	282 59 030350	57	343 66 030025	26	343 77 060060	17	372 98 060506	43
235 30 208030	51	236 80 303010	58	282 59 030351	57	343 66 030032	26	343 77 080030	17	372 98 060507	43
235 30 210020	51	236 80 303020	58	282 59 030352	57	343 66 040042	26	343 77 080045	17	372 98 060508	43
235 30 210030	51	236 80 303030	58	282 59 030354	57	343 66 0400230	26	343 77 080060	17		
235 30 212020	51	236 80 303040	58	282 59 030356	57	343 66 050045	26	343 77 100030	17	<b>376 11</b> 304020	<b>56</b>
235 30 212030	51	236 80 304000	58			343 66 050233	26	343 77 100045	17	376 11 304030	56
		236 80 304010	58	<b>343 01</b> 030150	<b>21</b>	343 66 060055	26	343 77 100060	17	376 11 305020	56
<b>236 11</b> 300001	<b>56</b>	236 80 304020	58	343 01 040150	21	343 66 060060	26	343 77 120030	17	376 11 305030	56
236 11 300002	56	236 80 304030	58	343 01 050150	21	343 66 060233	26	343 77 120045	17	376 11 306020	56
236 11 303020	56	236 80 304040	58	343 01 060200	21	343 66 080060	26	343 77 120060	17	376 11 306030	56
236 11 303030	56	236 80 305000	58	343 01 080450	21	343 66 080233	26			376 11 308020	56
236 11 304020	56	236 80 305010	58			343 66 080255	26	<b>343 98</b> 030590	<b>24</b>	376 11 308030	56
236 11 304030	56	236 80 305020	58	<b>343 08</b> 030150	<b>29</b>	343 66 100015	26	343 98 030591	24		
236 11 305020	56	236 80 305030	58	343 08 040200	29	343 66 100030	26	343 98 030592	24	<b>376 91</b> 305401	<b>56</b>
236 11 305030	56	236 80 305040	58	343 08 050300	29	343 66 100045	26	343 98 030593	24	376 91 310020	56
236 11 306020	56	236 80 306000	58	343 08 060300	29	343 66 100060	26	343 98 040629	24	376 91 310030	56
236 11 306030	56	236 80 306010	58	343 08 080300	29	343 66 120015	26	343 98 040630	24		
236 11 308020	56	236 80 306020	58			343 66 120030	26	343 98 050629	24	<b>563 50</b> 050010	<b>56</b>
236 11 308030	56	236 80 306030	58	<b>343 21</b> 040020	<b>15</b>	343 66 120045	26	343 98 050683	24		
236 11 310020	56	236 80 306040	58	343 21 050030	15	343 66 120060	26	343 98 060624	24	<b>668 30</b> 411038	<b>39</b>
236 11 310030	56	236 80 308000	58	343 21 060030	15			343 98 060630	24	668 30 488038	39
236 11 365620	56	236 80 308010	58	343 21 080033	15	<b>343 67</b> 030020	<b>17</b>	343 98 060637	24	668 30 511044	39
236 11 367030	56	236 80 308020	58			343 67 030030	17	343 98 060638	24	668 30 511081	39
236 11 367620	56	236 80 308030	58	<b>343 41</b> 030025	<b>14</b>	343 67 040040	17	343 98 060639	24	668 30 588044	39
236 11 368030	56			343 41 040030	14	343 67 040230	17	343 98 080629	24	668 30 588081	39
236 11 368620	56	<b>236 91</b> 304086	<b>56</b>	343 41 040055	14	343 67 050040	17	343 98 080631	24	668 30 611071	39
236 11 369030	56	236 91 304094	56	343 41 050030	14	343 67 050230	17	343 98 100691	24	668 30 611127	39
236 11 369620	56	236 91 305094	56	343 41 050055	14	343 67 060045	17	343 98 100692	24	668 30 688071	39
236 11 369720	56	236 91 305095	56	343 41 060030	14	343 67 060060	17	343 98 100693	24	668 30 688127	39
236 11 374030	56	236 91 306127	56	343 41 060060	14	343 67 060230	17	343 98 120501	24	668 30 811071	39
236 11 374620	56	236 91 306128	56	343 41 080030	14	343 67 080045	17	343 98 120502	24	668 30 888071	39
236 11 374720	56	236 91 308087	56	343 41 080060	14	343 67 080060	17				
236 11 377030	56	236 91 308101	56	343 41 100035	14	343 67 080230	17	<b>372 27</b> 050110	<b>41</b>	<b>668 31</b> 011071	<b>39</b>
236 11 377720	56	236 91 308110	56	343 41 100060	14	343 67 100045	17	372 27 050115	41	668 31 088071	39
236 11 378720	56	236 91 310006	56	343 41 120040	14	343 67 100060	17	372 27 050120	41		
236 11 400970	57	236 91 310010	56	343 41 120080	14	343 67 100235	17	372 27 050125	41	<b>668 70</b> 511030	<b>39</b>
		236 91 310019	56	343 41 040230	15	343 67 120045	17	372 27 060115	41	668 70 611050	39
<b>236 15</b> 300043	<b>58</b>			343 41 050230	15	343 67 120060	17	372 27 060120	41	668 70 811050	39
236 15 312020	56	<b>236 92</b> 378030	<b>56</b>	343 41 060230	15			372 27 060125	41		
236 15 312030	56			343 41 080230	15	<b>343 74</b> 040020	<b>31</b>	372 27 080115	41		
236 15 500305	57	<b>282 52</b> 000005	<b>53</b>	<b>343 44</b> 040020	<b>31</b>	343 74 050030	31	372 27 080120	41		
236 15 501000	52	282 52 214000	55	343 44 050030	31	343 74 060030	31	372 27 080125	41		
236 15 501001	57	282 52 214103	55	343 44 060030	31	343 74 080030	31			<b>372 29</b> 060504	<b>41</b>
236 15 600301	57	282 52 214104	55	343 44 080030	31			372 29 080506	41		
236 15 601000	53	282 52 214105	55			<b>343 76</b> 030015	<b>26</b>			<b>372 59</b> 050501	<b>42</b>
236 15 601001	57	282 52 214106	55	<b>343 48</b> 040020	<b>24</b>	343 76 030025	26			<b>372 91</b> 060502	<b>42</b>
236 15 700301	57	282 52 214108	55	343 48 040030	24	343 76 030032	26				
236 15 700309	58	282 52 214110	55	343 48 050020	24	343 76 040030	26				
236 15 701000	52	282 52 214112	55			343 76 040035	26				

# BÖLLHOFF

---

Worldwide for you a strong partner – at 39 locations in 24 countries.

**Böllhoff Group**

Please find your local contact on [www.boellhoff.com](http://www.boellhoff.com)  
or contact us under [fasteningtechnology@boellhoff.com](mailto:fasteningtechnology@boellhoff.com)



Subject to technical change.  
Reprinting, even in extract form, only permitted with express consent.  
Observe protective note according to ISO 16016.