



RIVKLE®

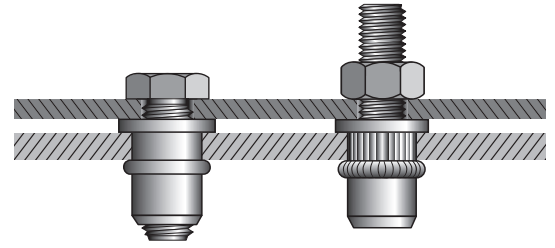
Blind rivet nuts and studs

BÖLLHOFF



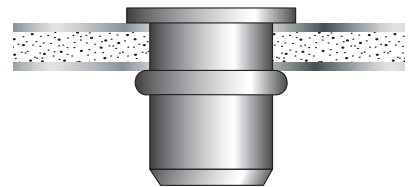
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RIVKLE® blind rivet nuts and studs are the most versatile solution for adding a strong reusable internal or external thread to thin-walled work pieces, with aesthetic appearance.



Compatible with all substrates

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



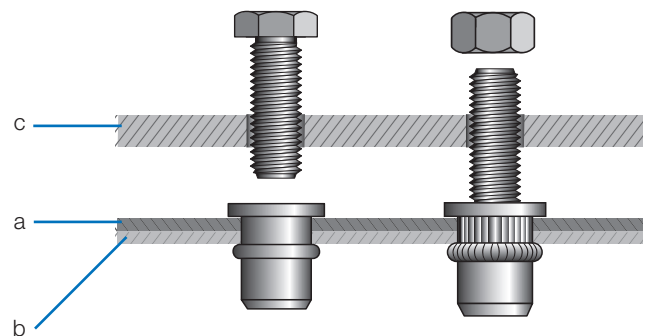
Corrosion protected

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



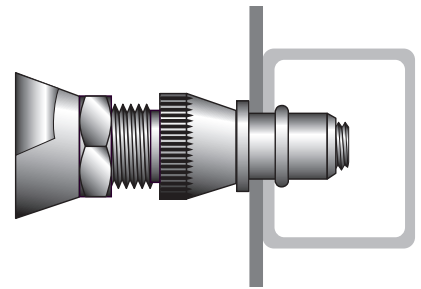
Provides 2 functions:

- 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.

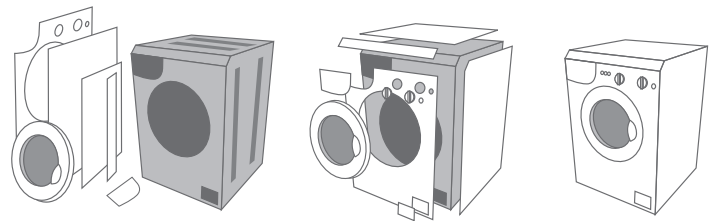


RIVKLE® – Process

RIVKLE® is installed using a single-sided setting technique. 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®

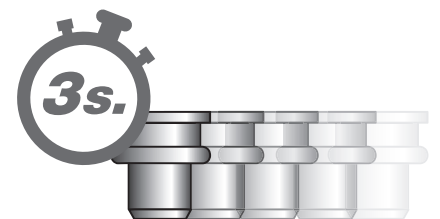


Safe and ecologic solution:

- 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

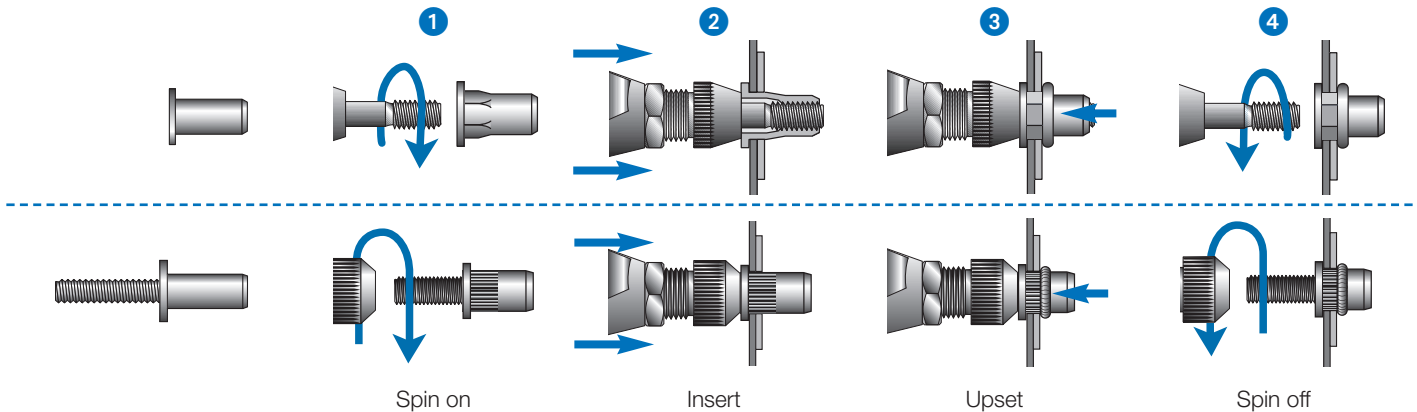


RIVKLE® blind rivet nut – Setting methods

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

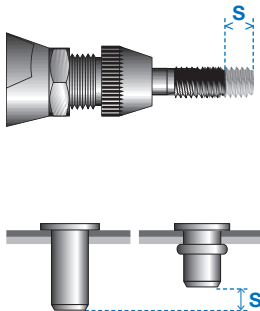
1 - Pull methods

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

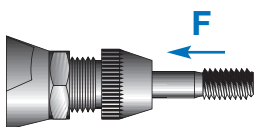


The operator sets the stroke on the setting tool in accordance with the values shown in the RIVKLE® catalogue tables. The setting tool exerts the maximum pressure and automatically stops when the preset stroke is reached (mechanical stop).

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.

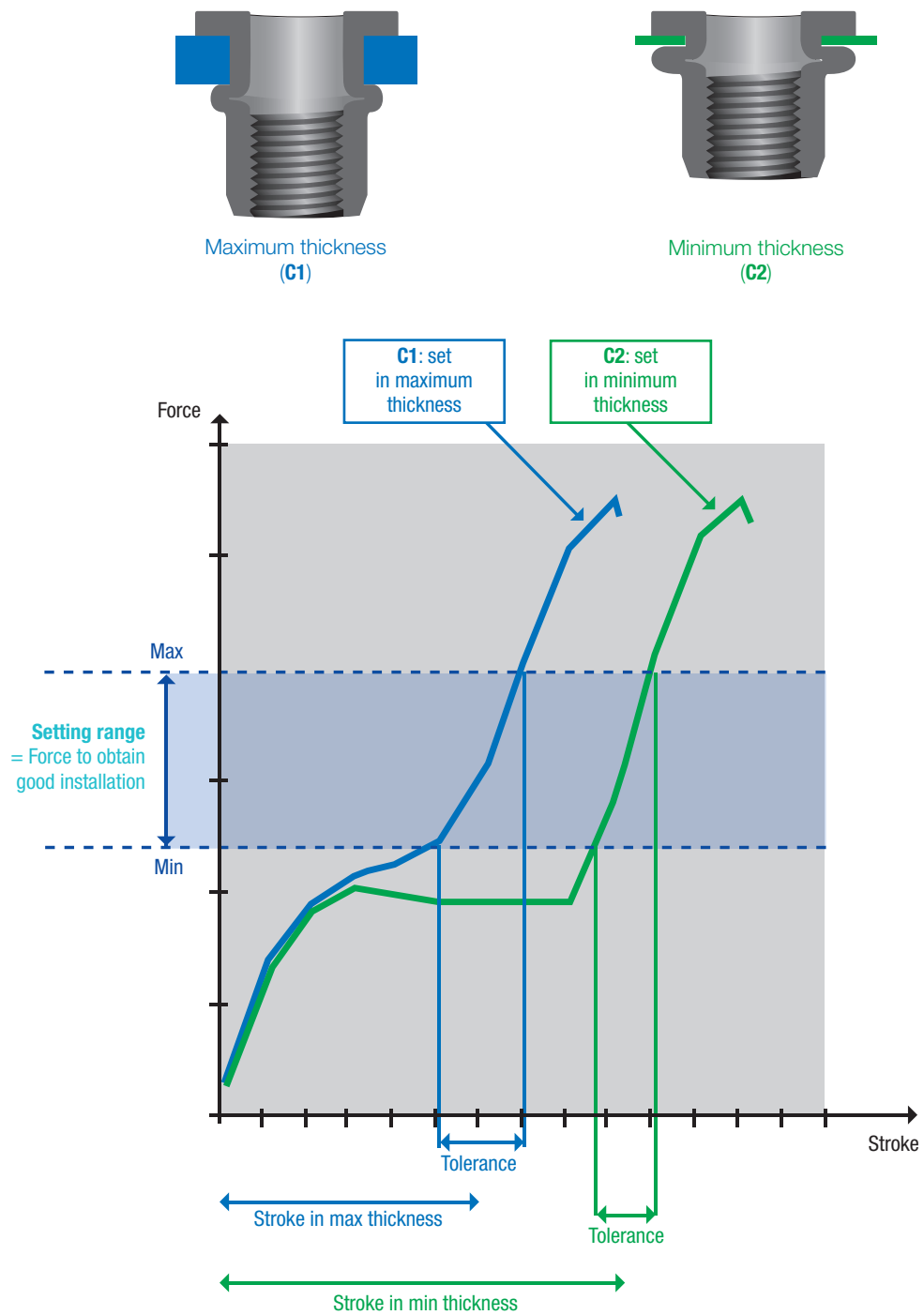
This setting principle is particularly well suited to workpieces with variable thickness (plastic parts, various layers...) and provides consistent setting quality.

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

3 - Installation force value

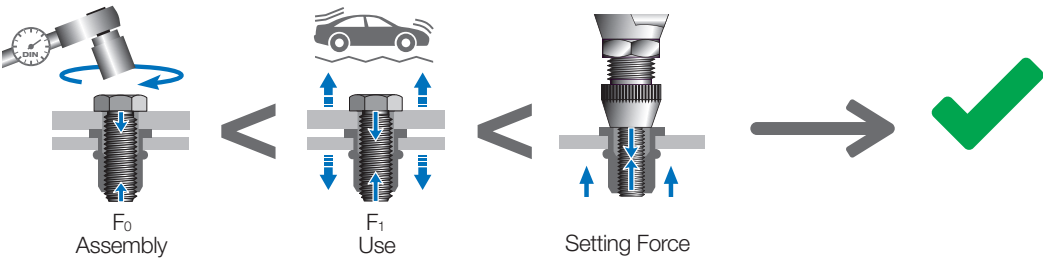
The recommended setting force is dependent upon a combination of information coming from RIVKLE® parameters (force to obtain a good installation) and screwing parameters (tensile strength after assembly and during service).

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

RIVKLE® – Additional services

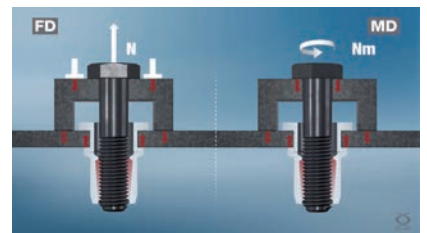
CAD

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

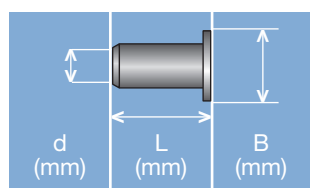
This is the core RIVKLE® range. These items are shipped within 24 hours of your order being accepted. You can rest assured that your order will be delivered without delay.

RIVKLE® Plus
24H

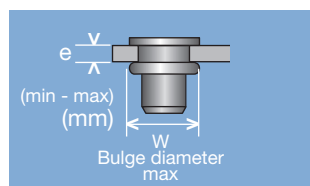
Training

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).



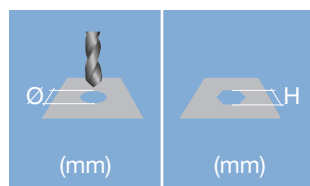


Head diameter
Overall length
Thread size

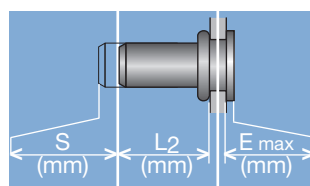


Grip range
Defines the range of total thickness of the customers part (even if it consists of more than one layer)

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



Hole geometry
If round → diameter
If hexagonal → width across flats

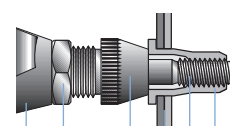


Head projection after setting
Variable according to the application (setting load, material substrate, etc.)

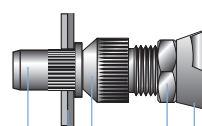
Blind side projection after installation
Defines the clearance needed on the blind side (cannot be used for quality control)

Setting stroke
Difference of total length before and after installation

RIVKLE® Nut



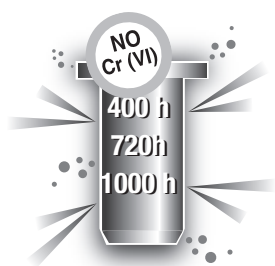
RIVKLE® Stud



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

in accordance to chosen RIVKLE®

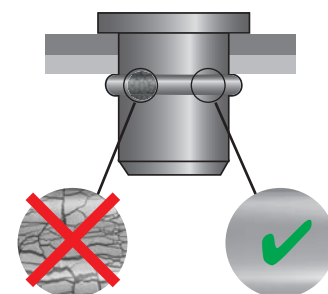
RIVKLE® – Material and surface treatment



	EN		USA
	Description	Num.	
Steel	C10C	1.0214	C1010
	C4C	1.0303	C1005
	11SMnPb30	1.0718	12L13
	20MnB5	1.5530	10B22
	X6CrNiCu18-9-2	1.4570 (A1)	AISI 303K
Stainless steel	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
Aluminium	EN AW-Al Mg1SiBi/EN	AW-60604	A/6064

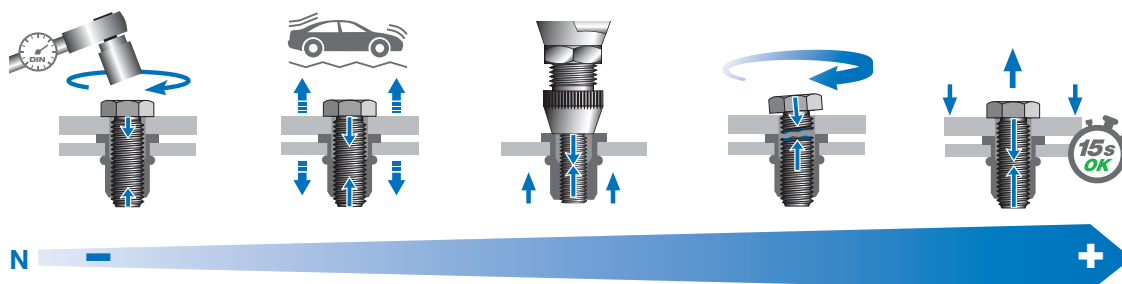
*RIVKLE® PN

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.



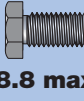
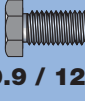
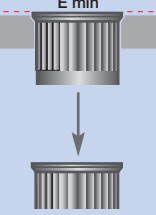
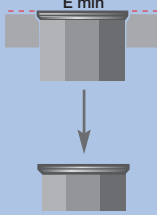
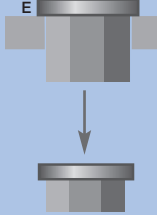
RIVKLE® – A real nut

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.

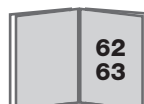


Screws													
		Head			Body					Body end			
		flat	thin	counter-sunk	plain	knurled	hexagonal	half-hex	slotted	Body end			
										open	closed		
STEEL				•			•			M3 - M12	M4 - M10		14
			•					•		M4 - M8			15
				•				•		M4 - M8			15
			•				•			M4 - M12	M4 - M10		16
				•			•			M3 - M12	M3 - 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	
					•	•				M3 - M10	M3 - M10		33
HRT			•				•			M5 - M8			35
Studs													
STEEL			•				•				M5 - M8		43
				•			•				M6 - M8		43
			•					•			M6 - M8		44
				•			•				M8		44
	SFC		•				•				M6		45
			•				•				D5 - D6		45
SSST				•				•			M5 - M6		45

RIVKLE® – Choice

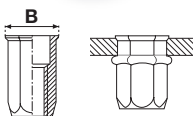
PLASTICS			METAL									
												
	RIVKLE® SFC		RIVKLE® PN				8.8 max		10.9 / 12.9		RIVKLE® HRT	
												
												
	233 91		668 3 668 7		343 67 343 77 233 07 233 27		343 41 343 51 233 41 233 51		232 XX			
					343 66 343 76 233 06 233 26		343 48 343 58 233 48 233 58					
					233 00							
											232 X0	

Ex: 343 67 **XXX XXX**



RIVKLE® – Blind rivet nuts - Steel

Steel | Thin head | Hexagonal | Open

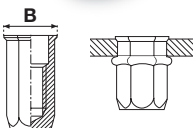


RIVKLE® Plus

24H

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

Steel | Thin head | Hexagonal | Closed

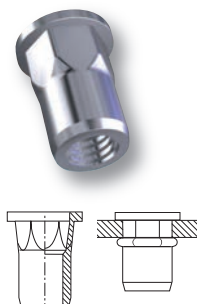


RIVKLE® Plus

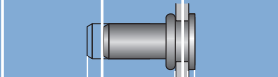
24H

d (mm)	L (mm)	B (mm)	e (min - max) (mm)	H/2 +0,1/0 (mm)	S (mm)	L2 (mm)	E 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 30,5	11,75	0,5 - 3,5 3,5 - 6,0	11,0	S=5,8-e S=8,5-e	22,5 22,0	0,5	343 51 080 030 343 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

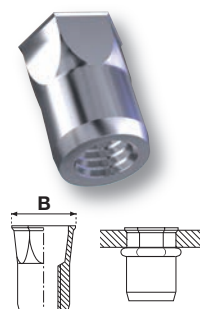
Steel | Flat head | Semi-hexagonal | Open



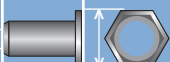
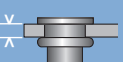
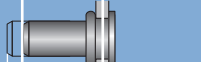
RIVKLE® Plus
24H

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

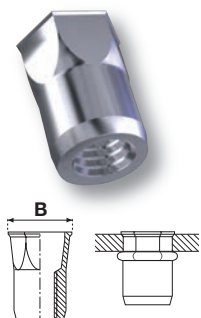
Steel | Thin head | Semi-hexagonal | Open



RIVKLE® Plus
24H

								
d (mm)	L (mm)	B (mm)	e (min - max) (mm)	H/2 +0.1/0 (mm)	S (mm)	L2 (mm)	E max (mm)	
M4	10,7	6,7	0,5 - 3,0	6,0	S=4,5-e	6,0	0,3	 343 41 040 230
M5	13,0	7,9	0,5 - 3,0	7,0	S=5,2-e	7,5	0,3	 343 41 050 230
M6	13,75	9,8	0,5 - 3,0	9,0	S=5,3-e	8,3	0,4	 343 41 060 230
M8	17,25	12,0	0,5 - 3,0	11,0	S=5,8-e	11,3	0,4	 343 41 080 230

Steel | Thin head | Semi-hexagonal | Open



RIVKLE® Plus
24H

								
d (mm)	L (mm)	B (mm)	e (min - max) (mm)	H/2 +0,1/0 (mm)	S (mm)	L2 (mm)	E max (mm)	
M4	10,3	6,9	0,5 - 2,0	6,4	S=3,0-e	6,8	0,5	EN ISO 19154 343 21 040 020
M5	11,45	8,1	0,5 - 3,0	7,3	S=4,8-e	7,0	0,45	EN ISO 19154 343 21 050 030
M6	14,35	10,6	0,7 - 3,0	9,7	S=4,8-e	9,0	0,6	EN ISO 19154 343 21 060 030
M8	15,8	11,55	0,9 - 3,3	10,7	S=5,9-e	10,2	0,7	EN ISO 19154 343 21 080 033

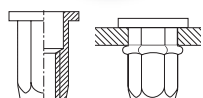
inch

For holes with imperial dimensions

Steel

RIVKLE® – Blind rivet nuts - Steel

Steel | Flat head | Hexagonal | Open

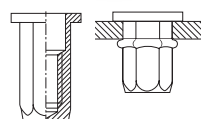


RIVKLE® Plus

24H

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

Steel | Flat head | Hexagonal | Closed

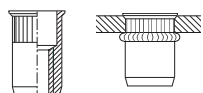


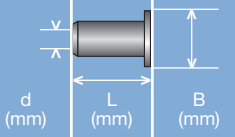
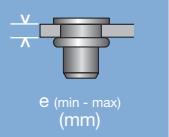
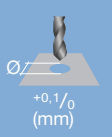
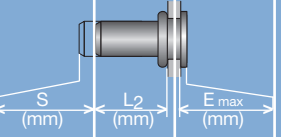
RIVKLE® Plus

24H

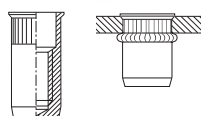
d (mm)	L (mm)	B (mm)	e (min - max) (mm)	H/ +0,1/0 (mm)	S (mm)	L ₂ (mm)	E (mm)	
M4	14,8	9,0	0,5 - 2,0	6,0	S=4,0-e	10,0	1,0	233 51 040 020
M5	19,7	10,0	0,5 - 3,0	7,0	S=5,0-e	14,0	1,0	233 51 050 030
M6	22,8	12,9	0,5 - 3,0	9,0	S=5,2-e	17,0	1,5	233 51 060 030
M8	25,8	16,0	0,5 - 3,0	11,0	S=5,5-e	19,0	1,5	233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

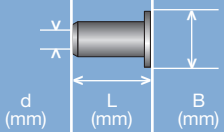
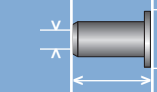
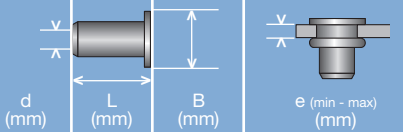
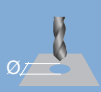
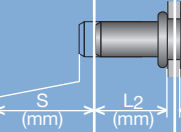
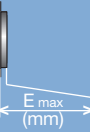
Steel | Thin head | Knurled | Open


RIVKLE® Plus


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

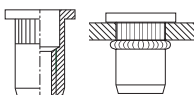
Steel | Thin head | Knurled | Closed



 d (mm)	 L (mm)	 B (mm)	 e (min - max) (mm)	 Ør +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	6,7	0,5 - 3,0	6,0	S=4,9-e	12,8	0,3	343 77 040 030	
	16,9	6,6	2,5 - 4,0		S=5,7-e	10,9		343 77 040 040	
M5	19,85	8,0	0,5 - 3,0	7,0	S=5,3-e	14,5	0,3	343 77 050 030	
	19,8	7,6	2,5 - 4,0		S=6,0-e	13,5		343 77 050 040	
M6	21,3	10,0	0,5 - 3,0	9,0	S=5,0-e	16,0	0,6	343 77 060 031	
	20,3	9,6	3,0 - 4,5		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	

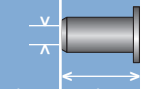
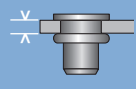
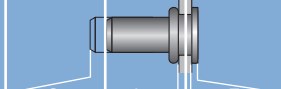
RIVKLE® – Blind rivet nuts - Steel

Steel | Flat head | Knurled | Open

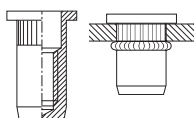


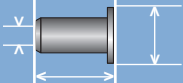
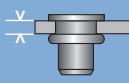
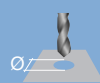
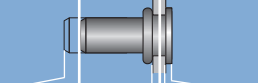
RIVKLE® Plus



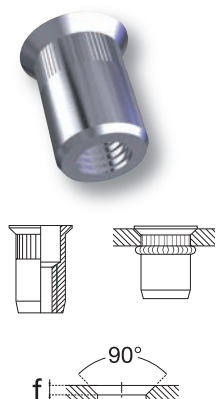
								
d (mm)	L (mm)	B (mm)	e (min - max) (mm)	+0.1/0 (mm)	S (mm)	L2 (mm)	E (mm)	
M3	8,8	7,0	0,50 - 1,00	5,0	S=2,0-e	5,8	1,0	233 07 030 100
	9,6		1,00 - 1,75		S=2,8-e	6,0		233 07 030 175
	10,4		1,75 - 2,50		S=3,4-e	6,0		233 07 030 250
	11,2		2,50 - 3,25		S=4,1-e	6,1		233 07 030 325
M4	11,0	9,0	0,50 - 3,00	6,0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

Steel | Flat head | Knurled | Closed

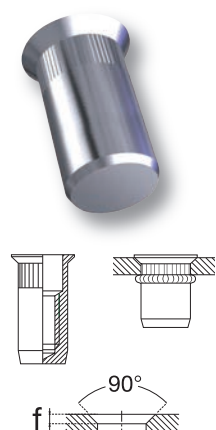


								
d (mm)	L (mm)	B (mm)	e (min - max) (mm)	+0.1/0 (mm)	S (mm)	L2 (mm)	E (mm)	
M4	15,0	8,0	1,00 - 1,75	6,0	S=3,0-e	11,0	1,0	233 27 040 175
	15,8		1,75 - 2,50		S=3,5-e	11,3		233 27 040 250
	16,6		2,50 - 3,25		S=4,6-e	11,0		233 27 040 325
M5	17,6	9,0	0,50 - 1,00	7,0	S=2,0-e	14,6	1,0	233 27 050 100
	18,7		1,00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

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)	
M3		8,8	6,6	1,00 - 1,75	5,0	1,0	S=2,8-e	5,9	0,1	233 17 030 175
		9,6	7,0	1,75 - 2,50		1,2	S=3,5-e	6,0		233 17 030 250
		10,4		2,50 - 3,25			S=4,3-e			233 17 030 325
M4		9,2	8,0	1,00 - 1,75	6,0	1,0	S=2,8-e	6,3	0,1	233 17 040 175
		10,0		1,75 - 2,50		1,2	S=3,6-e	6,4		233 17 040 250
		10,8		2,50 - 3,25			S=4,3-e			233 17 040 325
M5		11,6	8,5	1,00 - 2,00	7,0	1,0	S=3,8-e	8,5	0,1	233 17 050 200
		12,7	9,0	1,50 - 3,00		1,4	S=3,8-e			233 17 050 300
		13,8		3,00 - 4,00			S=5,2-e			233 17 050 400
		14,9		4,00 - 5,00			S=6,3-e			233 17 050 500
M6		15,0	10,6	1,50 - 3,00	9,0	1,2	S=5,0-e	10,0	0,1	233 17 060 300
		16,6		3,00 - 4,50		1,5	S=6,5-e			233 17 060 450
		18,2		4,50 - 6,00			S=8,0-e			233 17 060 600
		19,8	11,0	6,00 - 7,50			S=9,4-e	10,3		233 17 060 750
M8		16,5	12,6	1,50 - 3,00	11,0	1,4	S=6,0-e	11,5	0,1	233 17 080 300
		18,1	13,6	3,00 - 4,50		2,0	S=7,5-e			233 17 080 450
		19,7	14,0	4,50 - 6,00			S=8,6-e	11,0		233 17 080 600
		21,3		6,00 - 7,50			S=10,5-e	11,5		233 17 080 750
M10		20,4	15,0	1,50 - 3,00	13,0	1,4	S=5,7-e	14,6	0,1	233 17 100 300
		22,0	16,0	3,00 - 4,50		2,0	S=7,3-e			233 17 100 450
		23,6		4,50 - 6,00			S=8,9-e			233 17 100 600

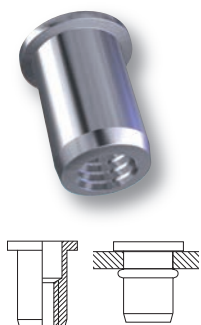


Steel | Countersunk head | Knurled | Closed

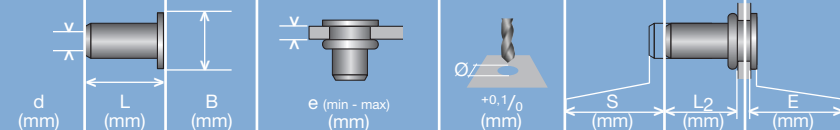
	d (mm)	L (mm)	B (mm)	e (min - max) (mm)	+0,1/0 (mm)	f (mm)	S (mm)	L2 (mm)	E max (mm)	
M4		14,2	8,0	1,00 - 1,75	6,0	1,0	S=2,8-e	11,3	0,1	233 37 040 175
		15,0		1,75 - 2,50		1,2	S=3,6-e			233 37 040 250
		15,8		2,50 - 3,25			S=4,7-e	11,5		233 37 040 325
M5		17,7	8,5	1,00 - 2,00	7,0	1,0	S=3,0-e	14,6	0,1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

RIVKLE® – Blind rivet nuts - Steel

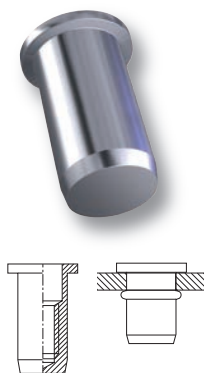
Steel | Flat head | Plain | Open



Steel

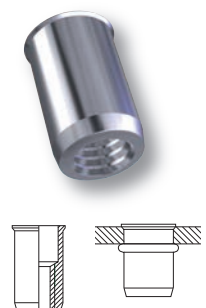
								
d (mm)	L (mm)	B (mm)	e (min - max) (mm)	Ø +0,1/0 (mm)	S (mm)	L2 (mm)	E (mm)	
M3	8,3	7,5	0,5 - 1,0	5,0	S=2,1-e	5,2	1,0	233 01 030 010
	8,7		1,0 - 1,5		S=3,2-e	4,8		233 01 030 015
	9,7		1,5 - 3,0		S=4,2-e	4,8		233 01 030 030
	11,2	3,0 - 4,5	S=5,8-e		4,4	233 01 030 045		
	12,9	7,4	4,5 - 6,0		S=7,2-e	4,7		233 01 030 060
M4	9,7	9,0	0,5 - 1,0	6,0	S=2,6-e	5,4	1,0	233 01 040 010
	10,2		1,0 - 2,0		S=3,6-e	5,4		233 01 040 020
	11,8		2,0 - 4,0		S=5,6-e	5,6		233 01 040 040
	13,8		4,0 - 6,0		S=7,5-e	5,3		233 01 040 060
M5	13,75	10,0	0,5 - 3,0	7,0	S=5,0-e	8,0	1,0	233 01 050 030
	16,7		3,0 - 5,5		S=7,5-e	8,0		233 01 050 055
	19,8		5,5 - 8,0		S=9,7-e	9,1		233 01 050 080
M6	15,8	13,0	0,5 - 3,0	9,0	S=5,2-e	10,0	1,5	233 01 060 030
	18,7		3,0 - 5,5		S=7,9-e	9,3		233 01 060 055
	21,7		5,5 - 8,0		S=10,2-e	10,0		233 01 060 080
M8	17,8	16,0	0,5 - 3,0	11,0	S=5,7-e	11,0	1,5	233 01 080 030
	20,8		3,0 - 5,5		S=8,2-e	11,0		233 01 080 055
	23,8		5,5 - 8,0		S=10,6-e	11,7		233 01 080 080
	26,8		8,0 - 10,5		S=13,5-e	11,8		233 01 080 105
M10	22,75	19,0	1,0 - 3,5	13,0	S=6,5-e	15,0	2,0	233 01 100 035
	25,75		3,5 - 6,0		S=9,0-e			233 01 100 060
	27,75		6,0 - 8,5		S=11,5-e			233 01 100 085
	31,8		8,5 - 11,0		S=14,0-e			233 01 100 110
M12	26,7	23,0	1,0 - 4,0	16,0	S=7,7-e	17,1	2,0	233 01 120 040
	29,7		4,0 - 7,0		S=10,7-e	17,5		233 01 120 070
	34,8		7,0 - 10,0		S=13,7-e	17,5		233 01 120 100
M14	35,5	24,0	4,5 - 6,0	18,0	S=9,8-e	23,2	2,5	233 01 140 600

Steel | Flat head | Plain | Closed



d (mm)	L (mm)	B (mm)	e (min - max) (mm)	+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			233 21 040 040
	18,8		4,0 - 6,0		S=7,6-e	10,3		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			233 21 050 055
	25,7		5,5 - 8,0		S=9,6-e	15,1		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			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)	+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

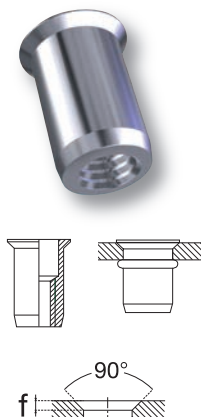
RIVKLE® Plus



For holes with imperial dimensions

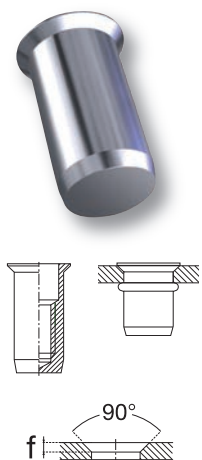
RIVKLE® – Blind rivet nuts - Steel

Steel | Countersunk head | Plain | Open



d (mm)	L (mm)	B (mm)	e (min - max) (mm)	+0,1/0 (mm)	f (mm)	S (mm)	L ₂ (mm)	E max (mm)	
M3	8,3	6,6	1,0 - 1,5	5,0	0,9	S=2,8-e	5,4	1,0	233 11 030 015
	8,8		1,5 - 3,0		1,3	S=4,3-e	4,8	1,4	233 11 030 030
	10,3		0,5 - 3,0		1,4	S=4,9-e	4,7		233 11 030 045
	11,9	7,0	1,0 - 1,5		0,9	S=6,3-e	4,8		233 11 030 060
M4	9,8	7,2	1,0 - 2,0	6,0	0,9	S=3,7-e	5,4	0,1	233 11 040 020
	10,4	7,8	2,0 - 3,0		1,3	S=4,7-e			233 11 040 030
	11,8		3,0 - 5,0		1,3	S=6,6-e			233 11 040 050
	13,8	8,0	5,0 - 7,0		1,3	S=8,4-e	5,3		233 11 040 070
M5	13,7	9,2	1,5 - 4,0	7,0	1,5	S=6,5-e	8,0	0,1	233 11 050 040
	16,7		4,0 - 6,5			S=8,1-e	8,6		233 11 050 065
	19,8		6,5 - 9,0			S=10,7-e	9,0		233 11 050 090
M6	17,3	11,3	1,5 - 4,0	9,0	1,5	S=6,2-e	10,0	0,1	233 11 060 040
	20,3		4,0 - 6,5			S=8,7-e			233 11 060 065
	21,8		6,5 - 9,0			S=10,4-e	11,4		233 11 060 090
M8	17,8	13,1	1,5 - 4,0	11,0	1,5	S=7,0-e	11,0	0,1	233 11 080 040
	20,8		4,0 - 6,5			S=9,5-e			233 11 080 065
	23,75		6,5 - 9,0			S=12,0-e			233 11 080 090
M10	21,8	15,1	1,5 - 4,0	13,0	1,5	S=8,4-e	15,0	0,1	233 11 100 040
	24,75		4,0 - 6,5			S=8,4-e			233 11 100 065
	28,0		6,5 - 9,0			S=11,5-e	14,8		233 11 100 090
M12	25,9	19,0	1,7 - 4,5	16,0	1,7	S=8,2-e	17,5	0,1	233 11 120 045
	30,8		4,5 - 7,5			S=9,7-e			233 11 120 075
	31,8		7,5 - 10,5			S=13,7-e	18,0		233 11 120 105

Steel | Countersunk head | Plain | Closed



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

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.

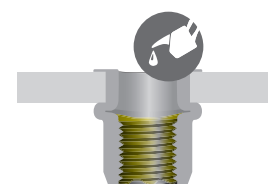


RIVKLE® Stainless steel - Lubricated range

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 45.



RIVKLE® Stainless steel - Plusnut

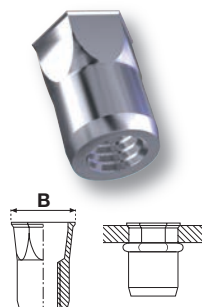
In order to diversify the Plusnut offer, dedicated stainless steel products have been designed. These blind rivet nuts increase the clamping area and reduce radial stresses during installation.

See page 39.



RIVKLE® – Blind rivet nuts - Stainless steel

Stainless steel | Thin head | Semi-hexagonal | Open

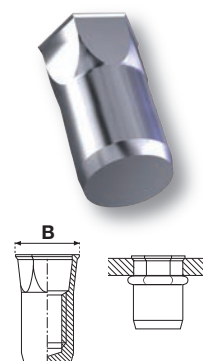


RIVKLE® Plus
24H

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

*New thin head design

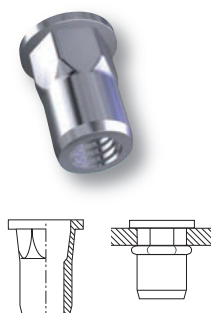
Stainless steel | Thin head | Semi-hexagonal | Closed



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

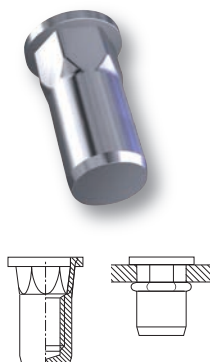
*New thin head design

Stainless steel | Flat head | Semi-hexagonal | Open



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

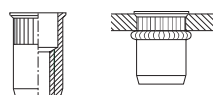
Stainless steel | Flat head | Semi-hexagonal | Closed



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

RIVKLE® – Blind rivet nuts - Stainless steel

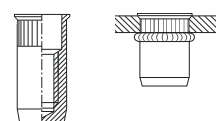
Stainless steel | Thin head | Knurled | Open

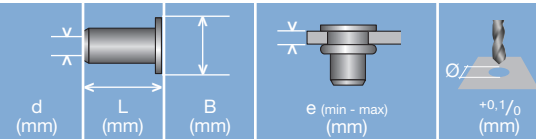
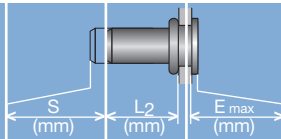


RIVKLE® Plus
24H

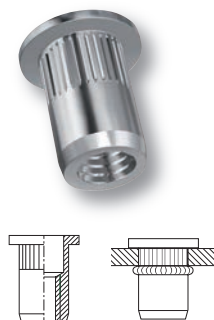
d (mm)	L (mm)	B (mm)	e (min - max) (mm)	+0,1/0 (mm)	S (mm)	L2 (mm)	E max (mm)	
M3	8,7	6,0	0,7 - 1,5	5,0	S=2,4-e	5,9	0,3	343 66 030 015
	7,9		1,5 - 2,5		S=3,5-e			343 66 030 025
	10,5		2,0 - 3,2		S=4,6-e			343 66 030 032
M4	11,6	7,0	0,7 - 3,0	6,0	S=4,0-e	7,5	0,5	343 66 040 230
	12,5		2,5 - 4,2		S=4,6-e	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



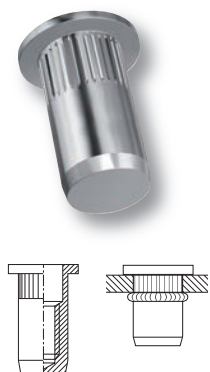
								
d (mm)	L (mm)	B (mm)	e (min - max) (mm)	+0,1/0 (mm)	S (mm)	L2 (mm)	E max (mm)	
M3	13,0	6,0	0,7 - 1,5	5,0	S=2,4-e	10,2	0,3	343 76 030 015
	14,1		1,5 - 2,5		S=3,5-e			343 76 030 025
	14,8		2,0 - 3,2		S=4,6-e			343 76 030 032
M4	15,7	7,0	0,7 - 3,0	6,0	S=3,8-e	12,0	0,5	343 76 040 030
	16,7		2,5 - 3,5		S=4,0-e	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	13,6		343 76 060 030
	20,4		3,0 - 4,5		S=6,3-e			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)	ϕ +0.1/0 (mm)	S (mm)	L ₂ (mm)	E (mm)		
M3	9,3	7,0	0,7 - 1,5	5,0	S=2,4-e	5,9	1,0		
	10,4		1,5 - 2,5		S=3,5-e			233 06 030 015	233 06 030 025
	11,0		2,0 - 3,2		S=4,4-e			233 06 030 032	233 06 040 230
M4	11,9	8,0	0,7 - 3,0	6,0	S=4,0-e	6,5	1,0	233 06 040 230	233 06 040 042
	12,4		2,5 - 4,2		S=4,7-e	6,0		233 06 050 233	233 09 050 501
M5	12,7	9,0	0,7 - 3,3	7,0	S=5,3-e	7,2	1,0	233 06 050 233	233 09 050 501
	14,9		2,5 - 4,5		S=5,4-e	7,8		233 06 060 233	233 09 060 501
M6	15,2	12,0	0,7 - 3,3	9,0	S=5,7-e	8,6	1,5	233 06 060 233	233 09 060 501
	16,4	11,0	3,0 - 4,5		S=6,3-e			233 06 060 045	233 06 060 060
	18,2		4,5 - 6,0		S=7,9-e			233 06 080 233	233 09 080 501
M8	16,9	14,0	0,7 - 3,3	11,0	S=6,5-e	9,5	1,5	233 06 080 233	233 09 080 501
	19,0		3,0 - 5,5		S=8,5-e			233 06 080 255	233 06 080 060
	20,0		4,5 - 6,0		S=7,9-e	10,6		233 06 100 015	233 06 100 030
M10	19,8	16,0	0,8 - 1,5	13,0	S=3,9-e	13,9	2,0	233 06 100 015	233 06 100 045
	21,4		1,5 - 3,0		S=5,5-e			233 06 100 030	233 06 100 060
	23,0		3,0 - 4,5		S=7,1-e			233 06 120 015	233 06 120 030
M12	24,6	20,0	4,5 - 6,0	16,0	S=8,7-e	17,2	2,0	233 06 120 015	233 06 120 030
	23,0		0,8 - 1,5		S=3,8-e			233 06 120 045	233 06 120 060
	24,6		1,5 - 3,0		S=5,4-e			233 06 120 045	233 06 120 060
	26,2		3,0 - 4,5		S=7,0-e			233 06 120 045	233 06 120 060
	27,8		4,5 - 6,0		S=8,6-e			233 06 120 045	233 06 120 060

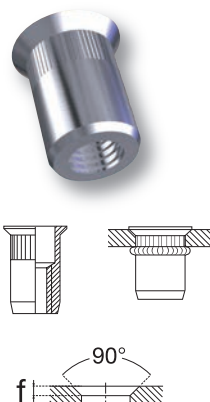
Stainless steel | Flat head | Knurled | Closed



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

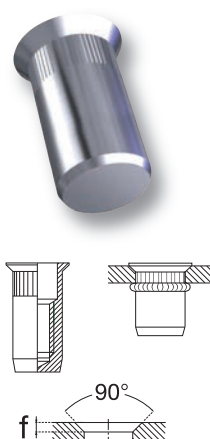
RIVKLE® – Blind rivet nuts - Stainless steel

Stainless steel | Countersunk head | Knurled | Open



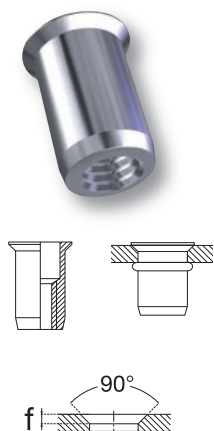
d (mm)	L (mm)	B (mm)	e (min - max) (mm)	+0.1/0 (mm)	f (mm)	S (mm)	L ₂ (mm)	E max (mm)	
M3	8,8	7,0	1,3 - 2,0	5,0	0,9	S=2,9-e	5,9	0,1	233 16 030 020
	9,9		2,0 - 3,0			S=4,0-e			233 16 030 030
	9,3		1,3 - 2,0			S=3,1-e			233 16 040 020
M4	10,3	8,0	2,0 - 3,0	6,0	0,9	S=4,1-e	6,2	0,1	233 16 040 030
	11,4	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

Stainless steel | Countersunk head | Knurled | Closed



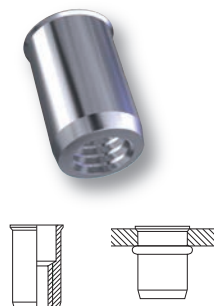
d (mm)	L (mm)	B (mm)	e (min - max) (mm)	+0.1/0 (mm)	f (mm)	S (mm)	L ₂ (mm)	E max (mm)	
M3	13,1	7,0	1,3 - 2,0	5,0	0,9	S=2,9-e	10,2	0,1	233 36 030 020
	14,2		2,0 - 3,0			S=4,0-e			233 36 030 030
M4	14,3	8,0	1,3 - 2,0	6,0	0,9	S=3,1-e	11,2	0,1	233 36 040 020
	15,3		2,0 - 3,0			S=4,1-e			233 36 040 030
M5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

Stainless steel | Countersunk head | Plain | Open



d (mm)	L (mm)	B (mm)	e (min - max) (mm)	+0,1/0 (mm)	f (mm)	S (mm)	L2 (mm)	E max (mm)	
M4	11,3	7,6	1,30 - 2,50	6,0	1,3	S=4,4-e	6,8	0,1	233 18 040 250
	10,8	8,0	1,75 - 3,25			S=5,3-e	5,4		
M5	12,5	9,2	1,50 - 3,00	7,0	1,5	S=4,0-e	8,5	0,1	233 18 050 300
	13,8	9,6	3,00 - 4,00			S=5,4-e	8,4		
M6	14,8	11,3	1,50 - 3,00	9,0	1,5	S=4,9-e	9,5	0,1	233 18 060 300
	16,6	11,5	3,00 - 4,50			S=7,1-e	9,4		
	18,0		4,50 - 6,00			S=5,4-e	11,2		
M8	16,3	13,1	1,50 - 3,00	11,0	1,5	S=5,0-e	10,5	0,1	233 18 080 300
	18,1	13,5	3,00 - 4,50			S=5,9-e	11,1		
	19,7		4,50 - 6,00			S=8,2-e	11,4		
	20,2		1,50 - 3,00			S=5,2-e			
M10	21,8	15,5	3,00 - 4,50	13,0	1,5	S=7,1-e	14,7	0,1	233 18 100 450
	23,4		4,50 - 6,00			S=8,7-e			

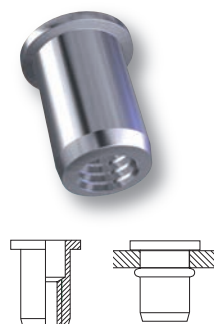
Stainless steel | Thin head | Plain | Open



d (mm)	L (mm)	B (mm)	e (min - max) (mm)	+0,1/0 (mm)	f (mm)	S (mm)	L2 (mm)	E max (mm)	
M3	8,8	5,3	0,5 - 1,5	4,7		S=2,8-e	5,5	0,4	343 08 030 150
M4	10,4	7,0	0,5 - 2,0	6,4		S=3,5-e	7,3	0,5	343 08 040 200
M5	11,6	7,7	0,5 - 3,0	7,1		S=5,0-e	7,3	0,6	343 08 050 300
M6	14,3	10,2	0,7 - 3,0	9,5		S=5,5-e	9,3	0,6	343 08 060 300
M8	16,35	11,3	0,7 - 3,0	10,5		S=6,1-e	10,5	0,7	343 08 080 300

inch For holes with imperial dimensions

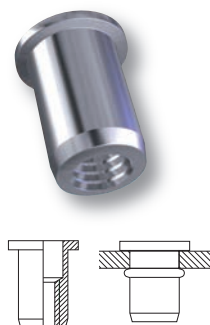
Stainless steel | Flat head | Plain | Open



d (mm)	L (mm)	B (mm)	e (min - max) (mm)	+0,1/0 (mm)	f (mm)	S (mm)	L2 (mm)	E (mm)	
M4	12,0	9,0	0,5 - 2,0	6,0		S=3,5-e	7,8	1,0	233 08 040 020
	13,5		2,0 - 3,5			S=5,2-e			
M5	12,5	10,0	0,5 - 3,0	7,0		S=4,7-e	7,7	1,0	233 08 050 030
	14,3	9,0	3,0 - 4,0			S=5,6-e			
M6	16,0	12,0	0,5 - 3,0	9,0		S=6,0-e	10,0	1,5	233 08 060 300
	18,0		3,0 - 5,0			S=7,75-e			
M8	16,5	14,0	0,8 - 3,0	11,0		S=4,7-e	9,5	1,5	233 08 080 300
	19,4		3,0 - 4,5			S=7,0-e			
M10	22,4	16,0	1,0 - 3,0	13,0		S=5,6-e	14,9	2,0	233 08 100 300
	24,0		3,0 - 4,5			S=7,2-e			
	25,6		4,5 - 6,0			S=8,8-e			

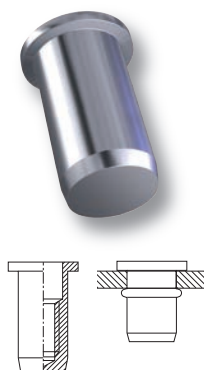
RIVKLE® – High corrosion resistance: A4

Stainless steel A4

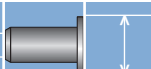


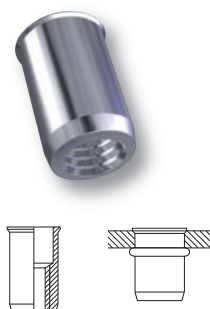
Stainless steel A4 | Flat head | Plain | Open

								
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	1,0	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	1,5	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

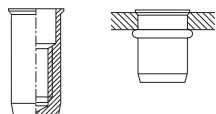


Stainless steel A4 | Thin head | Plain | Open

								
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

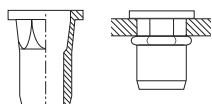
Range dedicated to industry use. In case of non metallic support, please contact us

Stainless steel A4 | Thin head | Plain | Closed



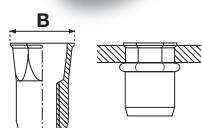
								
D (mm)	L (mm)	B (mm)	e (min - max) (mm)	Ø (mm)	(N)	L2 max (mm)	E max (mm)	
M4	15,5	6,5	0,5 - 2,0	6,0	9 500	11,6	0,5	343 74 040 020
M5	18,0	7,5	0,5 - 3,0	7,0	12 000	13,2		343 74 050 030
M6	21,5	9,5		9,0	15 000	16,7		343 74 060 030
M8	24,0	11,5		11,0	20 000	19,2		343 74 080 030

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



								
D (mm)	L (mm)	B (mm)	e (min - max) (mm)	H/2 (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

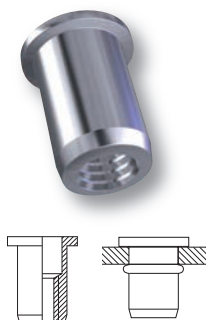
Stainless steel A4 | Thin head | Semi-hexagonal | Open



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

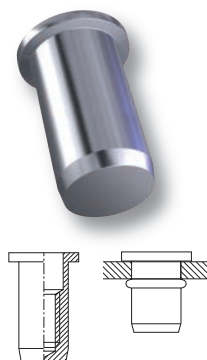
RIVKLE® – Blind rivet nuts - Aluminium

Aluminium | Flat head | Plain | Open



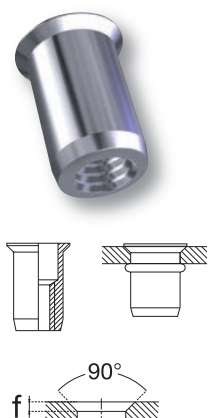
d (mm)	L (mm)	B (mm)	e (min - max) (mm)	+0,1/0 (mm)	S (mm)	L2 (mm)	E (mm)	
M3	10,5	8,0	0,50 - 2,00	5,0	S=3,2-e	5,4	0,75	233 00 030 020
	10,75	7,5	2,00 - 3,50		S=4,3-e		1,0	233 00 030 035
M4	11,0	9,0	0,25 - 2,50	6,0	S=4,1-e	6,3	1,0	233 00 040 025
	13,0	10,0	3,00 - 4,50		S=5,9-e		0,75	233 00 040 046
M5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

Aluminium | Flat head | Plain | Closed



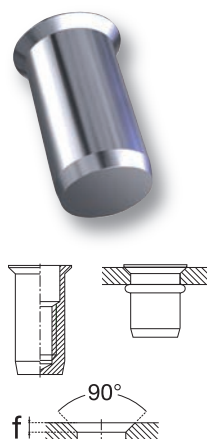
d (mm)	L (mm)	B (mm)	e (min - max) (mm)	+0,1/0 (mm)	S (mm)	L2 (mm)	E (mm)	
M3	13,5	7,5	0,25 - 2,00	5,0	S=3,0-e	9,3	1,0	233 20 030 020
	15,1		2,00 - 3,50		S=4,3-e	9,8		233 20 030 035
M4	15,5	10,0	0,50 - 3,00	6,0	S=4,0-e	10,8	0,75	233 20 040 030
	18,1	9,0	2,50 - 4,50		S=5,6-e	11,5	1,0	233 20 040 045
M5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

Aluminium | Countersunk head | Plain | Open



d (mm)	L (mm)	B (mm)	e (min - max) (mm)	+0,1/0 (mm)	f (mm)	S (mm)	L ₂ (mm)	E _{max} (mm)	
M3	10,2	7,2	1,3 - 3,5	5,0	1,3	S=4,0-e	6,1	0,1	
	11,8		3,5 - 5,0			S=6,0-e	5,7		
M4	11,5	9,0	1,7 - 3,5	6,0	1,5	S=4,4-e	6,7	0,1	
	12,8		3,5 - 5,0		1,3	S=6,0-e			
M5	13,0	10,0	1,0 - 4,0	7,0	0,9	S=5,5-e	7,8	0,1	
	16,3		4,0 - 6,5		1,5	S=7,7-e			
M6	17,0	12,0	1,7 - 4,5	9,0	1,5	S=6,3-e	10,4	0,1	
	18,7		4,5 - 6,5			S=8,7-e			
M8	19,0	14,0	1,7 - 4,5	11,0	1,5	S=7,5-e	12,7	0,1	
	22,2		4,5 - 6,5			S=9,3-e			
M10	21,0	15,4	1,7 - 4,5	12,5	1,5	S=7,5-e	13,2	0,1	
	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)	+0,1/0 (mm)	f (mm)	S (mm)	L ₂ (mm)	E _{max} (mm)	
M3	14,1	7,2	1,5 - 3,5	5,0	1,3	S=4,0-e	10,0	0,1	
	15,7		3,5 - 5,0			S=6,0-e	9,5		
M4	17,7	8,2	1,5 - 3,5	6,0	1,3	S=4,6-e	11,6	0,1	
	19,3		3,5 - 5,0			S=6,0-e			
M5	19,4	9,6	1,5 - 4,5	7,0	1,5	S=5,7-e	13,6	0,1	
M6	25,2	11,7	1,5 - 4,5	9,0	1,5	S=6,5-e	17,0	0,1	
	27,3		4,5 - 6,5			S=8,6-e			
M8	30,0	13,5	1,5 - 4,5	11,0	1,5	S=6,9-e	21,4	0,1	
	32,1		4,5 - 6,5			S=9,1-e			
M10	33,9	15,5	1,5 - 4,5	13,0	1,5	S=7,5-e	26,5	0,1	
	36,0		4,5 - 6,5			S=9,5-e			

RIVKLE® HRT – High Resistance Thread

Advantages:

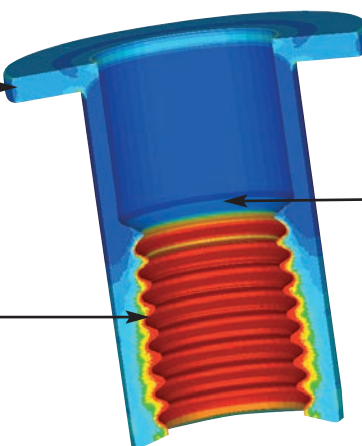
- Increased tightening torque enables increased preload in the joint
- Allows the use of smaller diameter thread
- Weight saving
- Corrosion resistance (for aluminium versions)
- Ability to completely recycle products (for aluminium versions)



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



		10.9 (ISO 898-1)	10 (ISO 898-2)	HRT
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

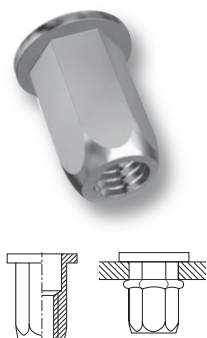
The required setting force is dependent upon the screw assembly method (elastic or over elastic).

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 _Z +0,1/0 (mm)	S (mm)	L ₂ (mm)	E (mm)		10.9	12.9
M6	20,0	14,0	1,0 - 3,0	9,0	S=6,5-e	13,0	1,5	232 91 060 502	✓	-
M8	23,6	17,0	1,0 - 3,0	11,0	S=6,3-e	16,0	1,5	232 91 080 504	✓	-
	26,6		3,0 - 6,0		S=9,6-e			232 49 080 502	✓	✓
M10	27,0	20,0	1,0 - 3,5	13,0	S=8,7-e	17,5	2,0	232 91 100 503	✓	✓
	28,5		2,0 - 5,0		S=9,5-e			232 91 100 501	✓	✓
M12x1,5	33,0	27,0	1,0 - 4,0	16,0	S=10,5-e	22,0	2,0	232 91 124 501	✓	✓

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

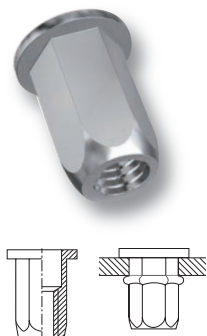
Setting forces

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

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 _Z +0,1/0 (mm)	S (mm)	L ₂ max (mm)	E max (mm)		8.8
M5	18,1	14,0	0,5 - 3,0	9,0	S=6,5-e	11,0	1,0	232 90 050 501	✓
M6	18,6	14,0	0,5 - 3,0	9,0	S=6,8-e	11,5	1,5	232 40 060 030	✓
M8	23,6	17,0	0,5 - 3,5	11,0	S=7,0-e	15,5	1,5	232 40 080 030	✓

Optimized for aluminium and magnesium workpieces.

Weight saving and corrosion resistant solutions for external applications.

Setting forces

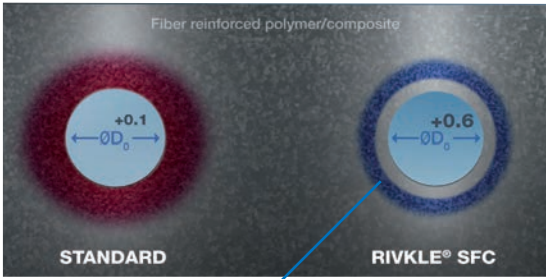
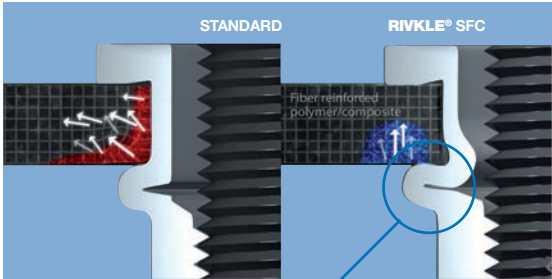
		8.8
M5	232 90 050 501	12 000
M6	232 40 060 030	12 000
M8	232 40 080 030	18 000

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

RIVKLE® SFC – Smart For Composite

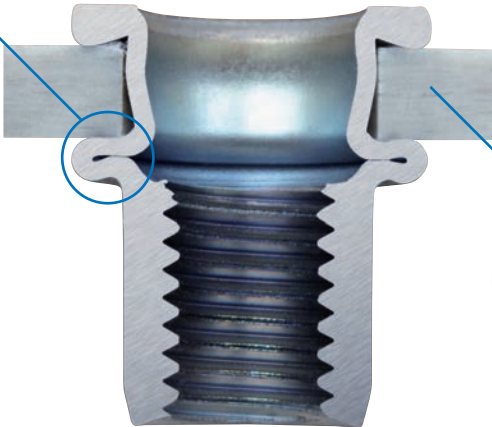
Advantages:

- 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



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	L2 max (mm)	E (mm)	
M5	16,1	16,0		2,0 - 3,5	8,1	8 000	8,0	1,0
	17,6			3,5 - 5,0				
M6	20,7	13,0		2,0 - 3,5	9,1	12 000	11,0	1,5
	22,2	13,0		3,5 - 5,0				
	20,7	18,0		2,0 - 3,5				
	22,2	18,0		3,5 - 5,0				
M8	22,0			2,0 - 3,5	11,1	18 000	12,0	
	23,5	20,0		3,5 - 5,0				

Steel Elliptic head



	D (mm)	L (mm)	B1 - B2 (mm)	e (min - max) (mm)	Ø	L2 max (mm)	E (mm)	
M6	20,9	17	13	2,2 - 3,7	9,2	12 000	11,5	1,7

RIVKLE® SFC - Stainless steel

Stainless steel A4



	D (mm)	L (mm)	B (mm)	e (min - max) (mm)	Ø	L2 max (mm)	E (mm)	
M6	26,6	H12		1,5 - 3,0	9,3	14 000	17,5	1,5

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 45

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).

You Tube

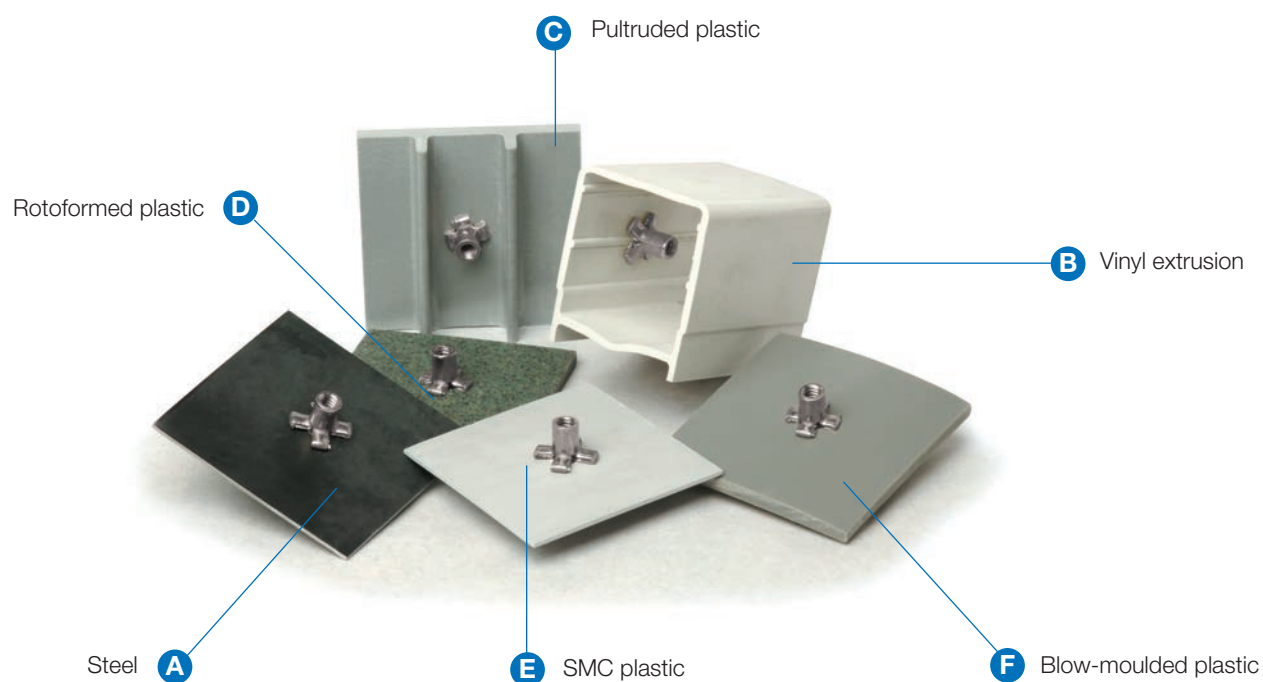
A dedicated brochure has been created for this product. Available upon request.

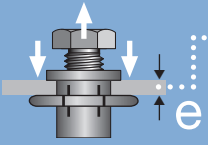


RIVKLE® PN – Ultimate pull out force

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

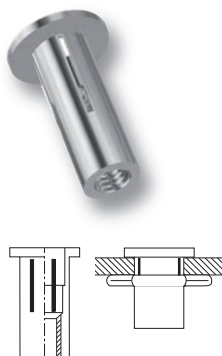


	A	B	C	D	E	F
	e = 0,76 mm	e = 2,92 mm	e = 6,29 mm	e = 3,04 mm	e = 1,65 mm	e = 4,69 mm
RIVKLE® M6	2 130 N	900 N	6 760 N	100 N	600 N	1 250 N
RIVKLE® PN M6	5 400 N	2 750 N	8 400 N	700 N	1 620 N	3 220 N

Test according to BÖLLHOFF specifications.

RIVKLE® PNP

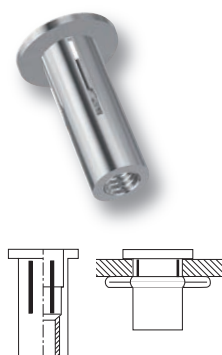
Steel | Flat head | Slotted | Open



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

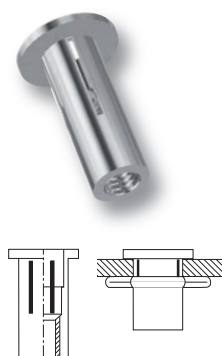
RIVKLE® PNC - Extended Grip Range

Steel | Flat head | Slotted | Open



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

*Item not in stock – please contact BÖLLHOFF for availability

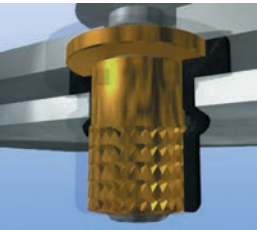
RIVKLE® PN - Tooling

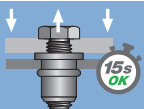
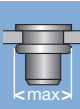
Please use dedicated tooling, see page 58.

RIVKLE® Elastic – Vibration damping characteristics

Advantages:

- Vibration and noise damping
- Electrical and thermal insulation
- Tolerancecompensation – Stress reduction
 - Stresses caused by tolerance statck-up (on component to be fastened)
 - Thermal expansion
 - Dynamic fastener
- Simple-to-fit. Setting (bulge clamping) takes place during assembly
- Easy to disassemble and re-use.
- Permits flexibility in design thanks to dimensional variability

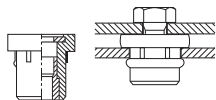


Ø			
M4	150 N	2,0 Nm	15,0 mm
M5	150 N	2,0 Nm	15,0 mm
M6	250 N	4,5 Nm	15,5 mm
M8	400 N	7,0 Nm	20,5 mm

The "RIVKLE® Elastic" female thread is manufactured to standard commercial tolerances (6H as per ISO 68-1) and can also be manufactured with Imperial threads.

RIVKLE® Elastic - With washer

Flat head | With washer | Open

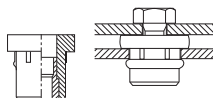


								
M4	d (mm)	L (mm)	B (mm)	e (min - max) (mm)	(mm)	L2 (mm)	E (mm)	243 10 040 300
M5								243 10 050 300
M6								243 10 060 300

■ For components made from plastic, aluminum and steel with a slotted hole

RIVKLE® Elastic - Without washer

Flat head | Without washer | Open



								
M5	d (mm)	L (mm)	B (mm)	e (min - max) (mm)	(mm)	L2 (mm)	E (mm)	243 00 050 300
M6								243 00 060 300
M8								243 00 080 300

■ For components made from steel with a pilot hole (DIN ISO 273 standard)

RIVKLE® – Standard blind rivet Studs

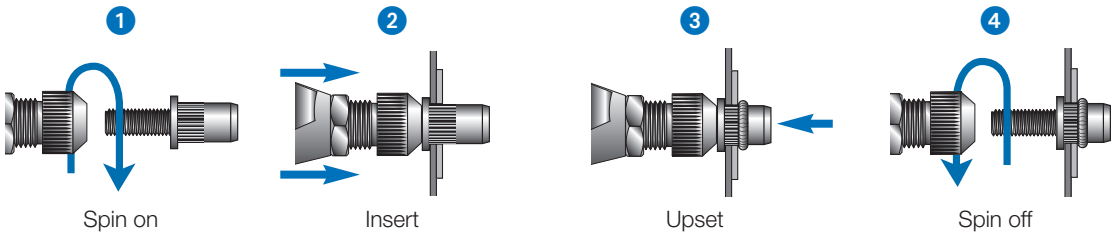
Advantages:

- 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

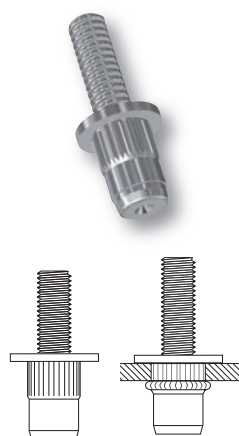


	Ø			
Steel	M5	8 000 N	6,0 Nm	10,1 mm
	M6	11 000 N	10,0 Nm	13,0 mm
	M8	21 000 N	24,0 Nm	15,0 mm

Setting



Steel | Flat head | Knurled



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

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

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

Steel | Thin head | Knurled

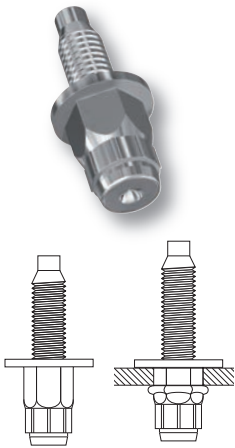


d (mm)	B (mm)	L ₁ (mm)	e min - max (mm)	Ø +0,1/0 (mm)	S (mm)	L ₂ (mm)	E (mm)	L (mm)		Coating	
										1	2
M6	10,0	15,3	1,0 - 4,0	9,0	S=5,7-e	8,95	0,6	15,4 - 20,4	372 97 060 518		✓
								11,4 - 16,4	372 97 060 519		✓
M8	12,0	17,5	1,0 - 4,0	11,0	S=7,0-e	9,5	0,6	14,5 - 19,5	372 97 080 505		✓
						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

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

RIVKLE® – Standard blind rivet Studs

Steel | Flat head | Hexagonal

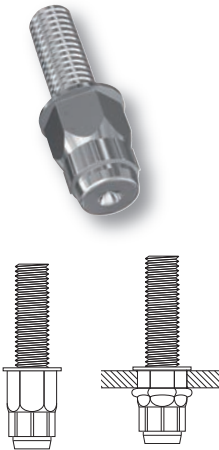


d (mm)	B (mm)	L1 (mm)	e min - max (mm)	+0,1/0 (mm)	S (mm)	L2 (mm)	E (mm)	L (mm)			
M5	10,0	12,0	0,5 - 3,0	7,0	S=4,4-e	7,0	1,0	11,5 - 16,0	372 59 050 501*	1	2
M6	13,0	12,8	0,5 - 3,0	9,0	S=4,8-e	8,0	1,5	15,0 - 21,0	372 91 060 506	✓	✓
		12,5 - 17,0						372 91 060 517*	✓	✓	
		18,5 - 23,0						372 91 060 509	✓	✓	
		27,5 - 32,0						372 91 060 502	✓	✓	
M8	16,0	15,5	0,5 - 3,0	11,0	S=5,8-e	9,0	1,5	19,0 - 23,5	372 91 080 502	✓	✓
	21,0	22,3	3,0 - 5,5		S=8,5-e	11,6	2,2	28,5 - 33,0	372 91 080 507	✓	✓
								37,2 - 41,6	372 91 080 510	✓	✓

* references without dog point

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

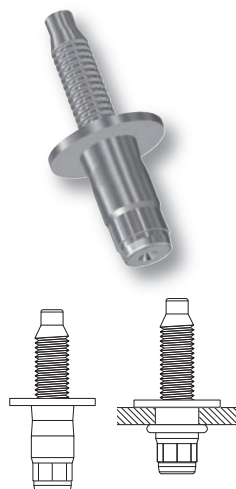
Steel | Thin head | Hexagonal



M8	13,5	20,2	3,0 - 5,5	11,0	S=8,0-e	11,7	0,5	28,0 - 32,0	372 91 080 504	1	2

SFC

Steel | Flat head | Knurled

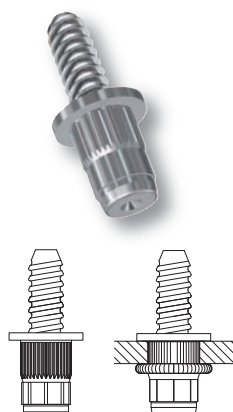


d (mm)	B (mm)	L1 (mm)	e min - max (mm)	+0.5/-0.1 (mm)	(N)	L2 (mm)	E (mm)	L (mm)		
M6	18,0	19,8 18,3	2,0 - 3,5	9,1	11 600	13,0	1,5	25,0 - 28,0 16,5 - 19,5	372 91 060 522	
									372 91 060 525	

Coating: ① = Zn8K+/Fe ; ② = ZnNi8A/Fe

Fir Tree studs

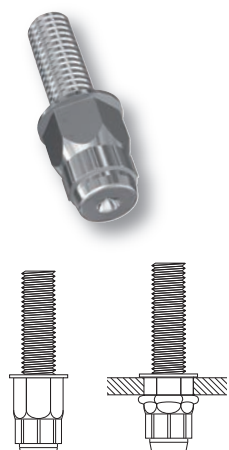
Steel | Flat head | Fir Tree studs



d (mm)	B (mm)	L1 (mm)	e min - max (mm)	+0.5/-0.1 (mm)	S (mm)	L2 (mm)	E (mm)	L (mm)		
D5	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	372 97 059 505 372 97 059 507 372 97 059 508	
D6	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	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	372 97 069 501 372 97 069 502 372 97 069 503 372 97 069 507 372 97 069 504 372 97 069 505 372 97 069 506	

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)		
M5	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	372 98 050 502 372 98 050 503 372 98 050 504	
M6	13,0	15,65	0,5 - 3,0	9,0	S=4,4-e	10,8	0,5	15,5 - 18,0 20,5 - 23,0 25,5 - 28,0	372 98 060 506 372 98 060 507 372 98 060 508	

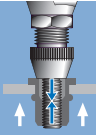
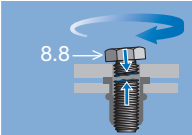
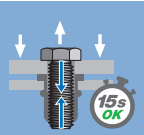
All RIVKLE® stainless steel studs are lubricated.

RIVKLE® – Waterproof

Advantages:

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



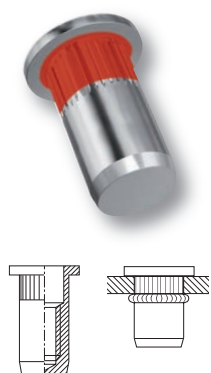
Ø			
M5	8 000 N	RIVKLE® reusable*	10 000 N
M6	12 000 N	RIVKLE® reusable*	15 000 N
M8	18 000 N	RIVKLE® reusable*	27 000 N
Same performance as standard RIVKLE®			

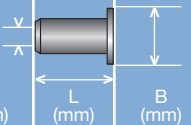
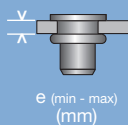
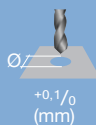
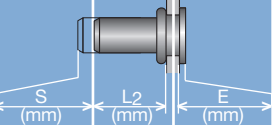
*RIVKLE® is more resistant than screw property class 8.8

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

* tests should be undertaken in actual application conditions

Stainless steel



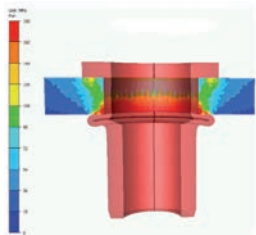
								
d (mm)	L (mm)	B (mm)	e (min - max) (mm)	+0.1/0 (mm)	S (mm)	L2 (mm)	E (mm)	
M5	17,8	9,0	0,7 - 1,5	7,1	S=2,8-e	14,0	1,0	233 96 050 503
	19,3		1,5 - 3,0		S=4,5-e			233 96 050 504
M6	18,3	11,0	0,7 - 1,5	9,1	S=2,4-e	13,7	1,5	233 96 060 508
	19,8		1,5 - 3,0		S=4,7-e			233 96 060 509
M8	21,3	14,0	0,8 - 1,5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

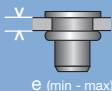




RIVKLE® - Shouldered

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

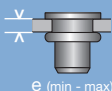
* grip min is unique grip if polymer on bulge side



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.



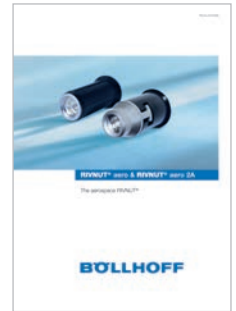
Ø	 e (min - max) (mm)*	Material		
M6	2,4 - 4,5	Steel	ZnNi8A/Fe	233 97 060 707
M8	4,0 - 6,5			233 97 080 705



RIVNUT® Aero - RIVNUT® Aero 2A

Designed 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.



RIVKLE® - Other concepts



RIVKLE® Elliptic Head

Efficient anti-turn function for soft substrates
See reference page 39



RIVKLE® Star Head

Flush finish with anti-turn - Ideal for wood



			M3	M4	M5	M6	M8	M10	M12	M14	
Manual tools	RIVKLE® BRK 01										51
	RIVKLE® M2007				*	*	*	*	*		51
	RIVKLE® BRK 10										52
	RIVKLE® ES 51										52
	RIVKLE® OPTEX										52
Power tools	RIVKLE® P2005										54
	RIVKLE® P1007										54
	RIVKLE® P2007										55
	RIVKLE® B2007										55
	RIVKLE® P3007										56
	RIVKLE® P2007 PN			**	**	**	**				56
	RIVKLE® P3007 PN						**	**			56
	RIVKLE® EPX009										57
Semi-automated tools	RIVKLE® EPK C										61
	RIVKLE® EPK HP										61
Automated tools	RIVKLE® HSA 2.0										61
	RIVKLE® ESA 2.0										61

* 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

		RIVKLE® Plus 24H											
		M3	M4	M5	M6	M8	M10	M4	M5	M6	M8	M10	
	235 119 00501	x1	x50	x50	x50	x50							
	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								

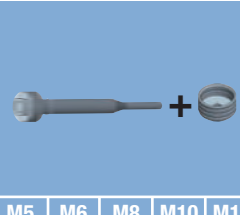
Tooling included (M5 - M12)

 1200 g

 **235 302 01000**



RIVKLE® M2007 Kit

		RIVKLE® Plus 24H					
		M5	M6	M8	M10	M12	
	235 302 01000	x1	x1	x1	x1	x1	
	235 302 01001		x1	x1	x1		x50 x25 x25
	235 302 01002		x1	x1	x1		x50 x25 x25
		UNC			UNF		
		10-24	1/4-20	5/16-18	10-32	1/4-28	5/16-24
235 302 01003	x1	x1	x1	x1	x1	x1	

RIVKLE® BRK 10 - Lever type assembly tool

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

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				
Aluminium		0,5 - 2,5 mm		

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 58)



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

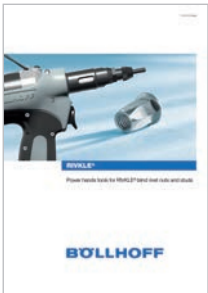
 1800 g

 236 157 01 000

Tooling not included
(see page 58)



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 58)



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 58)

Comparable weight to the RIVKLE® P2007 when fitted with hose

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



You Tube 

WEB

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								

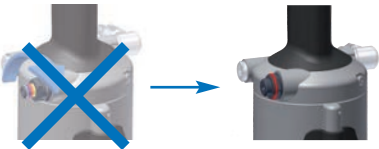
F = 24 000 N => 40 000 N

 3400 g

 236 159 01000

Adapted for RIVKLE® HRT from M6

Tooling not included
(see page 58)



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 58)



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 58)



RIVKLE® EPX009 Process Control

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



Tooling not included (see page 58)

- 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



- 5 m (standard delivered)
- 10 m
- 15 m



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

YouTube



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

TOOLING KIT

Washer + Nut				Ø RIVKLE®								
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.

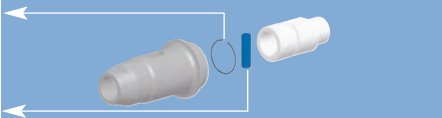
Tooling

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® 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													

*(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

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

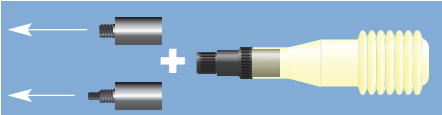
Accessories

Ring		236 803 00 008
Pin		236 803 00 009

					
RIVKLE® P2005	236 155 00 305	236 155 01 001	 2 - 3 Kg 282 590 10 820	 2,2 - 4 Kg 282 590 10 665	 2,2 - 4 Kg 282 590 10 664
RIVKLE® P1007	236 157 00 301	236 157 01 001			
RIVKLE® P2007	236 156 00 301	236 156 01 001			
RIVKLE® P2007 PN		-	 4 - 6 Kg 282 590 10 152	-	-
RIVKLE® P3007 PN		-			
RIVKLE® P3007	236 159 00 301	-			

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

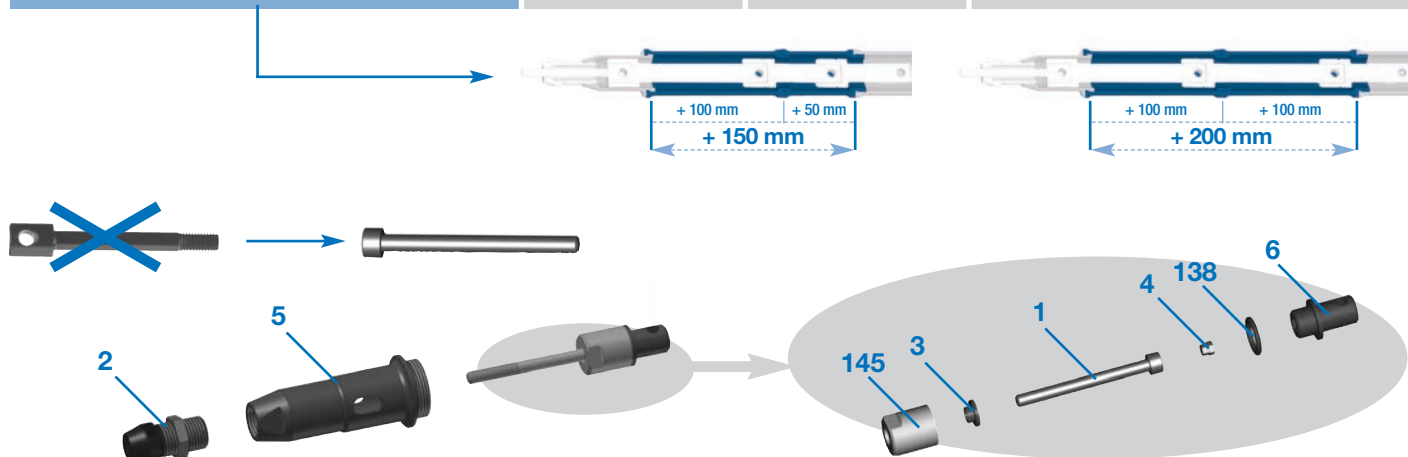
Refill & purge accessory

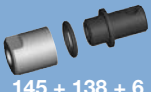
RIVKLE® P1007 / P2007 / P2005		236 114 00 970
RIVKLE® B2007		236 166 00 309

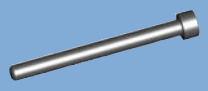


Accessories

		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						
	A		B		C	
	 5 RIVKLE® B2007 = original nose		 145 + 138 + 6 PX007 + P2005		 1 + 2 + 3 + 4 RIVKLE® B2007	
	RIVKLE® P2005	RIVKLE® P1007	RIVKLE® P2007	PX007 + P2005	RIVKLE® B2007	
M3						236 803 03 000
M4						236 803 04 000
M5	236 153 00 043	236 157 00 309	236 803 00 005	236 803 00 216	236 166 00 300	236 803 05 000
M6						236 803 06 000
M8						236 803 08 000

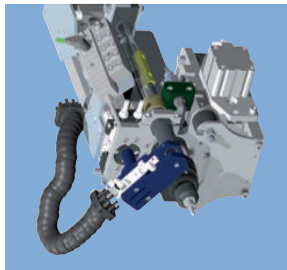
	 ISO4762 DIN912	 2	 3	 4
M3	M3 x 60 236 803 03 020	236 113 03 030	236 803 03 040	236 803 03 010
M4	M4 x 60 236 803 04 020	236 113 04 030	236 803 04 040	236 803 04 010
M5	M5 x 65 236 803 05 020	236 113 05 030	236 803 05 040	236 803 05 010
M6	M6 x 65 236 803 06 020	236 113 06 030	236 803 06 040	236 803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

RIVKLE® – Special installation machines



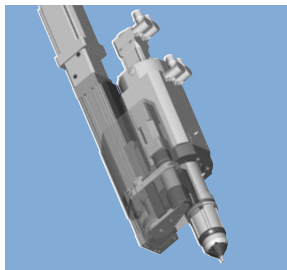
RIVKLE® EPK C / EPK HP

Hydraulic pneumatic tool with process control



RIVKLE® HSA 2.0

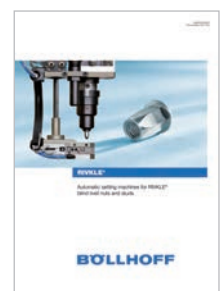
Setting head with automatic loading system



RIVKLE® ESA 2.0

Electrical setting head

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



RIVKLE® – Part number index

											
232 40 060030	35	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
232 49 080502	35	233 07 030100	18	233 16 060400	28	233 21 100035	21	233 31 060090	22	233 48 050040	25
232 90 050501	35	233 07 030175	18	233 16 060050	28	233 21 100060	21	233 31 080040	22	233 48 060001	25
232 91 060502	35	233 07 030250	18	233 16 060060	28	233 21 100085	21	233 31 080065	22	233 48 060045	25
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235 11 904001	53	236 15 914030	58	282 52 214206	57	343 49 050538	24	343 76 060060	26	372 91 080504	44
235 11 905001	53	236 15 916020	58	282 52 214208	57	343 49 100501	24	343 76 080015	26	372 91 080507	44
235 11 906001	53	236 15 916030	58	282 52 214210	57			343 76 080030	26	372 91 080510	44
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235 12 005001	53	236 16 600300	56	282 52 214508	57	343 51 060030	14	343 76 100015	26	372 97 059507	45
235 12 006001	53	236 16 600303	58	282 52 214800	57	343 51 080030	14	343 76 100030	26	372 97 059508	45
235 12 008001	53	236 16 600304	58	282 52 214900	57	343 51 080060	14	343 76 100045	26	372 97 060518	43
235 12 010001	53	236 16 600308	59	282 52 215000	57	343 51 100060	14	343 76 100060	26	372 97 060519	43
		236 16 600309	59	282 52 216000	57			343 76 120015	26	372 97 069501	45
235 30 201000	51	236 16 601000	55	282 52 217000	57	343 58 040025	24	343 76 120030	26	372 97 069502	45
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236 11 369720	58	236 91 305095	58			343 67 030030	17	343 98 060638	24	668 30 611071	39
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236 11 377030	58	236 91 308101	58	343 41 050030	14	343 67 050230	17	343 98 100691	24	668 30 811071	39
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				343 41 080060	14	343 67 080060	17				
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236 15 700309	60	282 52 000005	55	343 44 050030	31						
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Apart from these 24 countries, Böllhoff supports its international customers in other important industrial markets in close partnership with agents and dealers.

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