

BÖLLHOFF

RIVNUT® Aero

Blind rivet nuts for Aerospace



High-strength, self-locking blind rivet nut for blind installation

Function

- Provides a high-strength thread in carbon and/or aluminium plates.
- Prevents loosening even under vibratory stresses.
- Allows an universal approach thanks to an all-in-one installation kit.
- Allows play compensation +/- 0.8 mm (RIVNUT® Aero 2A).

Advantages

General approach

- Access from one side (blind setting).
- All-in-one offer: insert + installation kit to ensure an optimised and secure assembled product.
- Force setting for quick and easy setting, no tool adjustment necessary for use with the whole grip range.

Two elements in one

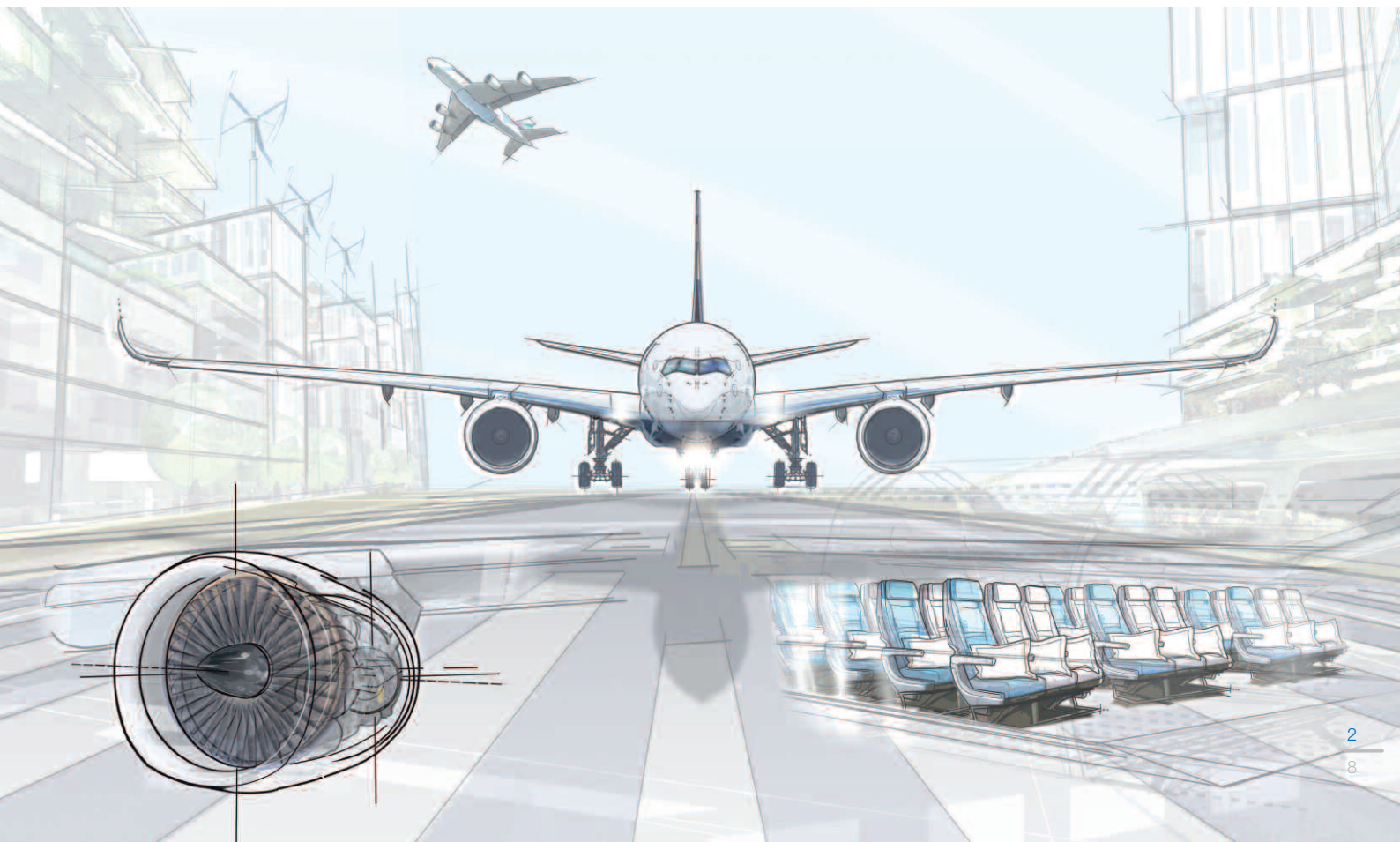
- Blind rivet nut for consistent and reliable installation providing visible installation integrity.
- The wire thread insert provides effective and durable screw locking, high thread wear resistance, as well as excellent resistance to vibration and thermal shocks.

Maximum operating range

- Large grip range so as to minimise the part numbers used (up to 2.5 mm for RIVNUT® Aero).
- RIVNUT® Aero fasteners are available to cover support materials from 0.8 to 13 mm thickness.
- RIVNUT® Aero 2A fasteners are available to cover support materials from 1.0 to 8.0 mm thickness.

Usable for aerospace and other applications

- Thanks to its characteristics, the same insert can be used for aerospace (MJ) or ISO (M) thread bolts.
- High-strength bolts can be used which ensures that the bolt remains the weakest element in the assembly (easier and cheaper to replace).
- 2 different versions to satisfy all needs with and without play compensation necessity.

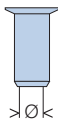





High-strength, self-locking blind rivet nut for blind installation

Benefits at a glance

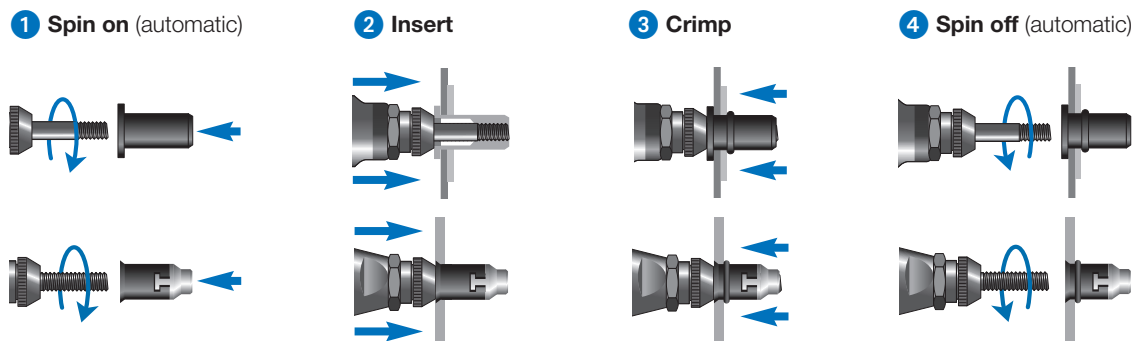
- High-strength fastening point: equivalent to class 12 steel nut.
- Blind setting – no need for access to both sides.
- No maintenance, fuse is the screw, easiest to replace.
- No more need to integrate a maintenance hole during the design phase.

Setting force

		 N	 Pneumatic	 Battery tool
RIVNUT® Aero	M4	9 000	236 15 601 021	236 16 601 000*
	M5	12 000	236 15 601 022	
	M6	15 000	236 15 601 023	
	UNF 10-32	12 000	236 15 601 022	
RIVNUT® Aero 2A	M5	10 000	236 15 601 037	

* The setting load has to be adjusted by the operator before use

Quick and easy installation procedure



Technical characteristics

- Body made of AISI 316L stainless steel: ensures corrosion strength and perfect mechanical characteristics.
- Wire thread insert: prevents thread disengagement thanks to its screw locking function and imparts maximum mechanical performance on the joint.
- Silver-plated thread: prevents binding.
- Electrophoretic coating applied to the body to prevent galvanic corrosion when used on aluminium parent material.

RIVNUT® Aero

RIVNUT® Aero is a high-strength, self-locking blind rivet nut for blind installation in Aerospace applications.

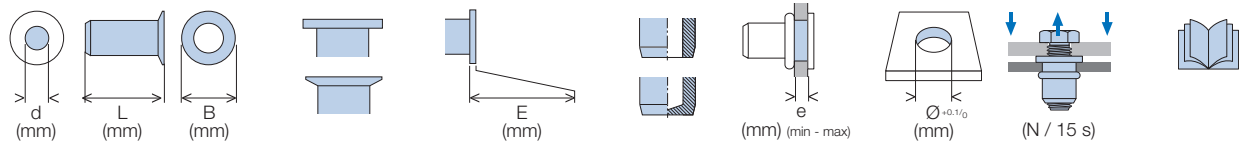
Concentrated technology, designed to meet the high requirements of the Aerospace industry.



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RIVNUT® Aero

Fasteners offer

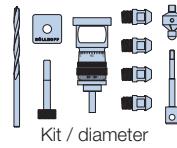




		d (mm)	L (mm)	B (mm)	Flat	E (mm)	Open	e (mm) (min - max)	Ø ^{+0.1/0} (mm)	(N / 15 s)		
	M(J) 4	17.0	9.0		Flat	1.0	Open	1.00 - 3.30	7.0	10 700	233 98 040 714	
		18.1						Closed			0.80 - 1.70	233 98 040 718
	M(J) 5		18.4	13.0		Flat	1.0	Open	1.00 - 3.30	9.0	17 300	233 98 050 723
			19.0						1.75 - 3.75			233 98 050 721
		11.0	Countersunk 100°	21.1	1.1	Open	3.75 - 5.75	233 98 050 722				
				23.0			Closed	1.75 - 3.75	233 98 050 725			
			13.0	Flat	23.1	0.6	Open	5.75 - 7.75	233 98 050 727			
					18.0			1.0	0.80 - 3.30	233 98 050 728*		
			11.0	Countersunk 100°	20.5	1.1	Open	3.30 - 5.30	233 98 050 732			
					25.1			Closed	3.75 - 5.75	233 98 050 733		
		25.0		Open	7.00 - 9.00	233 98 050 737						
		27.5			9.00 - 11.0	233 98 050 738						
	29.0	11.00 - 13.00	233 98 050 739									
	M(J) 6		20.1	14.0	Flat	1.5	Open	1.20 - 2.80	10.0	25 000	233 98 060 734	
			21.7					2.25 - 4.30			233 98 060 735	
		12.3	Countersunk 100°	21.2	1.4	Open	2.25 - 4.30	233 98 060 733				
				23.8			4.30 - 6.30	233 98 060 745				
		14.0	Flat	25.9	1.5	Open	6.30 - 8.30	233 98 060 746				
				28.0			8.30 - 10.30	233 98 060 747				
			12.3	Countersunk 100°	23.0	1.4	Open	4.00 - 6.00	233 98 060 753			
25.2					6.00 - 8.00			233 98 060 754				
27.4	8.00 - 10.00	233 98 060 756										
UN(J)F 10/32		18.5	10.8	Countersunk 100°	1.1	Open	1.75 - 3.75	9.0	17 300	233 98 697 503*		
		17.9	13.0	Flat			1.00 - 3.30			233 98 697 504*		
	M(J) 5	19.2	12.5	Countersunk 100°	1.0	Open	1.00 - 2.00	10.9	16 000	233 98 050 731		
		20.2					2.00 - 3.00			233 98 050 736		
		21.2					3.00 - 4.00			233 98 050 740		
		22.2					4.00 - 5.00			233 98 050 741		
		23.2					5.00 - 6.00			233 98 050 742		
		24.2					6.00 - 7.00			233 98 050 743		
		25.2					7.00 - 8.00			233 98 050 744		

* = without electrophoretic coating

RIVNUT® Aero

Setting kits



 RIVNUT® Aero	233 98 040 714	For screw M4: 234 89 040 501	236 11 304 020	236 91 304 090
	233 98 040 718	For screw M4: 234 89 040 502		236 91 304 102
	233 98 050 721	For screw M5: 234 89 050 505	236 11 305 020	236 91 305 085
	233 98 050 722			236 91 305 086
	233 98 050 723			236 91 305 090
	233 98 050 725			236 91 305 085
	233 98 050 727			236 91 305 102
	233 98 050 728			236 91 305 090
	233 98 050 732			For screw M5: 234 89 050 505
	233 98 050 733	For screw M5: 234 89 050 505	236 11 305 020	236 91 305 086
	233 98 050 737			236 91 305 116
	233 98 050 738			236 91 305 117
	233 98 050 739			236 91 305 118
	233 98 060 733	For screw M6: 234 89 060 504	236 11 306 020	236 91 306 109
	233 98 060 734			236 91 306 110
	233 98 060 735			236 91 306 111
	233 98 060 745			236 91 306 146
	233 98 060 746			236 91 306 147
	233 98 060 747			236 91 306 148
	233 98 060 753			236 91 306 155
233 98 060 754	236 91 306 156			
233 98 060 756	236 91 306 157			
233 98 697 503	For screw UNF 10-32: 234 89 697 501	236 11 369 720	236 91 305 085	
233 98 697 504	For screw UNF 10-32: 234 89 697 502		236 91 305 090	
 RIVNUT® Aero 2A	233 98 050 731	For screw M5: 234 89 050 601	236 11 305 120	236 91 305 120
	233 98 050 736			
	233 98 050 740			
	233 98 050 741			
	233 98 050 742			
	233 98 050 743			
233 98 050 744				

Repair Kits

The repair kit allows the replacement of the **HELICOIL®** once the **RIVNUT® Aero** fasteners have been installed on the application. Easily transportable. Hand tools only. No need for power supply or compressed air.

The repair kit is comprised of a base box which includes common basic tools. On top of that, the kits need to be adapted to the size of the **HELICOIL®** you wish to replace.



Tool base box	234 89 000 690
Toolkit M4	234 89 000 694
Toolkit M5	234 89 000 695
Toolkit M6	234 89 000 696
Toolkit 10-32	234 89 000 697
Complete repair kit including all 4 sizes	234 89 000 600

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Passion for successful joining.