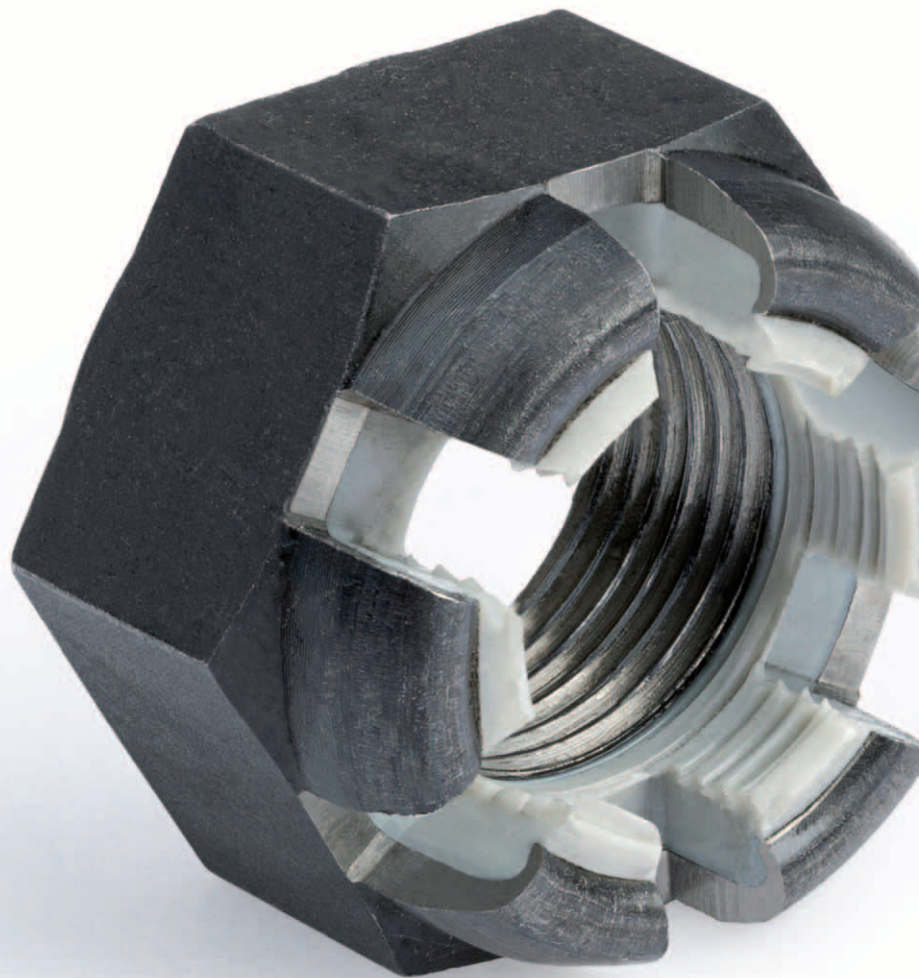


BÖLLHOFF

Standard nuts for aerospace industry

Complete in-house manufacturing



Nuts - variants



Hexagonal nuts

When maintenance speed and reliable torque control matter, Böllhoff hexagonal nuts deliver. Hexagonal plain nuts are machined to tight tolerances for clean thread engagement, consistent clamp load, and easy wrench access — even in tight bays. Castellated variants add precise slot geometry for secure cotter-pin retention where mechanical lock is essential. Both styles meet aerospace weight targets while preserving critical wall thickness for confident torque feel and repeatable preload. Materials include aerospace and stainless steels, and titanium; finishes and lubricity are tailored to method, environment, and corrosion needs.

Result: a nut that installs right, holds right, and fits your qualification.



Hexagonal self-locking nuts

In high-vibration, high-cycle environments, hexagonal self-locking nuts add safety margin without sacrificing installation ease. Locking ring designs provide a robust mechanical lock that resists rotational loosening through thermal cycling and dynamic loads. Crimped/prevaling torque variants are precision-machined and calibrated for consistent batch performance, delivering predictable torque on/off and reducing rework. We tune thread class, torque windows, and surface treatments to spec for the right balance of speed and in-service security. For new qualifications or fleet sustainment, these nuts keep assemblies tight, compliant, and confident.



Fitting nuts

For fluid and gas systems, sealing integrity starts at the nut. Böllhoff fitting nuts deliver reliable make-up torque and stable sealing across hydraulic, fuel, air, inert gas, and drain lines. Geometry is machined to mate precisely with fittings and tube ends, supporting flared/flareless designs and minimizing micro-movement that can compromise seals. Finishes and coatings balance corrosion resistance, galvanic compatibility, and friction control — so torque becomes clamp load. With small-batch agility and full traceability, we match tube sizes, materials, and installation practices.

Result: performance protected, maintenance simplified, seals sustained.



Blind Rivet nuts

When you need strong threads in thin-wall structures or composite panels with one-side access, rivet nuts are a fast, efficient choice. Böllhoff rivet nuts deliver high pull-out and torque-out while minimizing installation stress on the parent material. Geometries and knurling options enhance grip in metallic and composite substrates. Open- and closed-end variants address environmental and contamination constraints. For full technical details, product families, and installation tooling, see our RIVNUT® Aero and RIVKLE® brochures covering configurations, materials, and performance data for specification and qualification.

Our aerospace expertise

Joining expertise for aerospace Designed to your standards

Across all nut types, our machining accuracy, material breadth, and finish options enable consistent clamp loads, predictable installation, and durable in-service performance. We combine production flexibility — small batches, prototypes, and rapid iterations — with aerospace-grade quality controls and documentation, so you can validate quickly and scale with confidence.

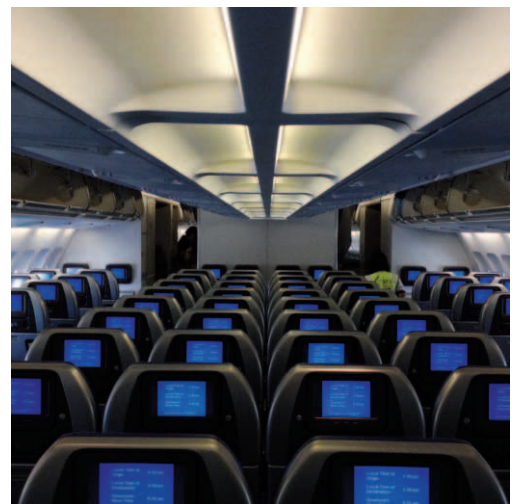
Customization is integral: thread forms, wrenching features, locking devices, and surface treatments are adapted to your standards and operating environment, from corrosion-resistant interiors to high-temperature, high-vibration zones.

Our range of nuts enables us to meet the specific requirements of these key aerospace areas:

Structure



Interior



Propulsion and equipments



Space



Our surface treatment expertise

Surface treatment

We provide a wide range of surface treatments to meet the highest performance levels for your application. Whether you are looking for good corrosion and wear resistance, electrical insulation or conductivity, low friction coefficient, anti-seize protection or galvanic compatibility, we have the right surface treatment for your needs.

- Anodizing
- Chemical conversion
- Zinc-nickel plating
- Cadmium plating
- Phosphating
- Passivation
- Dry film lubricant (DFL)
- Silver plating

Discover our capabilities across aluminium, carbon steel, steel, stainless steel, iron-base alloys, nickel alloys, and Titanium alloys — tailored to your specifications.

	Example	Anodizing	Chemical conversion	Zinc nickel plating	Cadmium plating	Phosphating	Passivation	Dry film lub	Silver plating
Aluminium	7075	■	■				■		
Carbon steel	XC 38			■	■	■		■	■
Steel	35NC6			■	■	■		■	■
Stainless steel	Z10 CNT 18-11						■	■	■
Iron base alloys	A286						■	■	■
Nickel alloys	Inconel 718						■	■	■
Titanium alloys	TA6V	■	■					■	

Hexagonal nuts



Hexagonal nuts

Plain nuts with positive locking feature provided by wire holes.

Type	Material						Feature
	Aluminium	Steel	Stainless steel	A286	Titanium	Inconel	Wire holes
ASNA0232	■						■
DIN65281				■			■
DIN65510		■					■
DIN65534				■			■
EN2372		■					■
EN2373		■					■
EN2852				■			■
EN2876	■						■
EN3226		■					■
EN3227		■					■
EN3228		■					■
EN3229		■					■
EN3266					■		■
EN4069				■			
LN29669		■					■
NAS1423		■		■			■
NAS509		■		■			
NFL22411	■	■	■	■	■	■	
NFL22412	■	■	■	■	■	■	
NFL22413	■	■	■	■	■	■	
NFL22431	■	■	■	■	■	■	
NFL22432	■	■	■	■	■	■	
NFL22433	■	■	■	■	■	■	
NFL22434	■	■	■	■	■	■	
NFL22435	■	■	■	■	■	■	
NFL22436	■	■	■	■	■	■	
NFL22437	■	■	■	■	■	■	■
NFL22438	■	■	■	■	■	■	■
NFL22439	■	■	■	■	■	■	■
NFL22440	■	■	■	■	■	■	■
NFL22441	■	■	■	■	■	■	
NFL22442	■	■	■	■	■	■	
NFL22443	■	■	■	■	■	■	■
NFL22444	■	■	■	■	■	■	■
NFL22461	■	■	■	■	■	■	■
NFL22462	■	■	■	■	■	■	■

■ optional feature

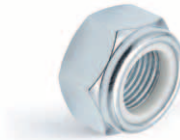


Hexagonal nuts - Castellated

Plain nuts with positive locking feature provided by use of a pin.

Type	Material					
	Aluminium	Steel	Stainless steel	A286	Titanium	Inconel
DIN65247				■		
EN2810				■		
EN3230		■				
HESND		■		■		
NFL22420	■	■	■	■	■	■
NFL22425	■	■	■	■	■	■
NFL22451	■	■	■	■	■	■
NFL22453	■	■	■	■	■	■
NFL22455	■	■	■	■	■	■
NFL22457	■	■	■	■	■	■
NFL22458	■	■	■	■	■	■
SL4108		■				
SL4353	■			■		

Hexagonal self-locking nuts



Hexagonal self-locking nuts

Hexagonal nuts ensuring self-locking performances using rings or plastic deformation.

Type	Material						Locking feature			Option
	Aluminium	Steel	Stainless steel	A286	Titanium	Inconel	Crimped	Locking ring	HELICOIL® screwlock	Wire holes
DIN65545				■				■		
ECS2334		■						■		
ISO10511		■						■		
NFL22542		■						■		



Hexagonal self-locking nuts – Castellated

Hexagonal nuts ensuring self-locking performances using rings or plastic deformation and allowing positive locking feature provided by use of a pin.

Type	Material						Locking feature			Option
	Aluminium	Steel	Stainless steel	A286	Titanium	Inconel	Crimped	Locking ring	HELICOIL® screwlock	Wire holes
ASNA0044		■						■		
ASNA0045		■						■		
ASNA0272		■						■		
DIN65270				■				■		
MBBN3129				■				■		
NSA5060		■		■			■			

Fitting nuts



Hexagonal fitting nuts

Hexagonal nuts design for fitting application, often fastening a sleeve on a tube.

Type	Material					Type	Option
	Aluminium	Steel	Stainless steel	Titanium	Inconel	B-nut	Wire holes
AN924	■	■	■	■			
AS5178	■	■	■	■			
AN818	■	■	■	■		■	■
AS4370	■	■	■	■		■	■
ASNA3769	■	■	■	■		■	■
MS21921	■	■	■	■		■	■
NSA855133	■	■	■			■	■

RIVNUT® Aero – Blind rivet nut

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

The body is made of AISI 316L stainless steel to ensure corrosion resistance and perfect mechanical characteristics. The wire thread insert prevents thread disengagement thanks to its screw locking function and imparts maximum mechanical performance on the joint. The silver-plated thread prevents binding. The electrophoretic coating applied to the body prevents galvanic corrosion, when used on aluminium parent material.

HELICOIL® Screwlock

to avoid self-loosening (ISO2320/NASM 8846) and accommodate standard thread profiles (M, UNC, UNF) as well as thread profiles with Controlled Root Radius (MJ, UNJC, UNJF).

Ring to guide the screw and increase radial stress resistance (**RIVNUT® Aero**)

0.8 mm 2-axis play compensation
to align parts without effort

Electrophoretic coating surface treatment
to avoid galvanic corrosion on aluminium in applications

316 L Stainless steel
for best corrosion resistance and optimum mechanical properties



RIVNUT® Aero

Blind rivet nuts for aerospace
Catalogue No 2317

<https://www.boellhoff.com/en/pdf/rivnut-aero>

You are interested in this fastening solution?
Please, find all the technical features of the
RIVNUT® Aero in our dedicated brochure.

The Böllhoff aerospace standards

Our designed and qualified references

Our expertise in manufacturing nuts for the aerospace industry allows us to offer our own qualified standards. Discover our hexagonal self-locking nuts, specially designed to meet the specific needs of this market.

Hexagonal nuts self-locking - Technical features

	Materials	Diameter	Pitch	Locking feature	Surface treatments	Feature
SNAC	Steel	5 - 22	0.8 - 1.5	Lock ring	Cadmium plating	Castellated
SNAG			0.9 - 1.5			Sim thread
SNAH			0.8 - 1.5			—
SNAL		3 - 22	0.9 - 1.5			Reduced height
HESND	Steel & A286	5 - 14	0.8 - 1.5	Crimped	Cadmium plating & dry film lub	Castellated

Raw material and coating customization on demand.
Inch dimension variant is possible.

Would you like more information about Böllhoff aerospace nuts?

We are here to send you additional documentation on request. Please, contact us.

Custom-made nuts

Our custom-made nuts – Your specifications. Our expertise.

When standard references do not meet your specifications, Böllhoff designs and manufactures nuts tailored to your application. Drawing on decades of aerospace expertise and in-house production capabilities, we deliver custom solutions that combine precision, reliability and full traceability — from first prototype to series production.

Beyond the catalogue, our expertise begins.

Your benefits at a glance:

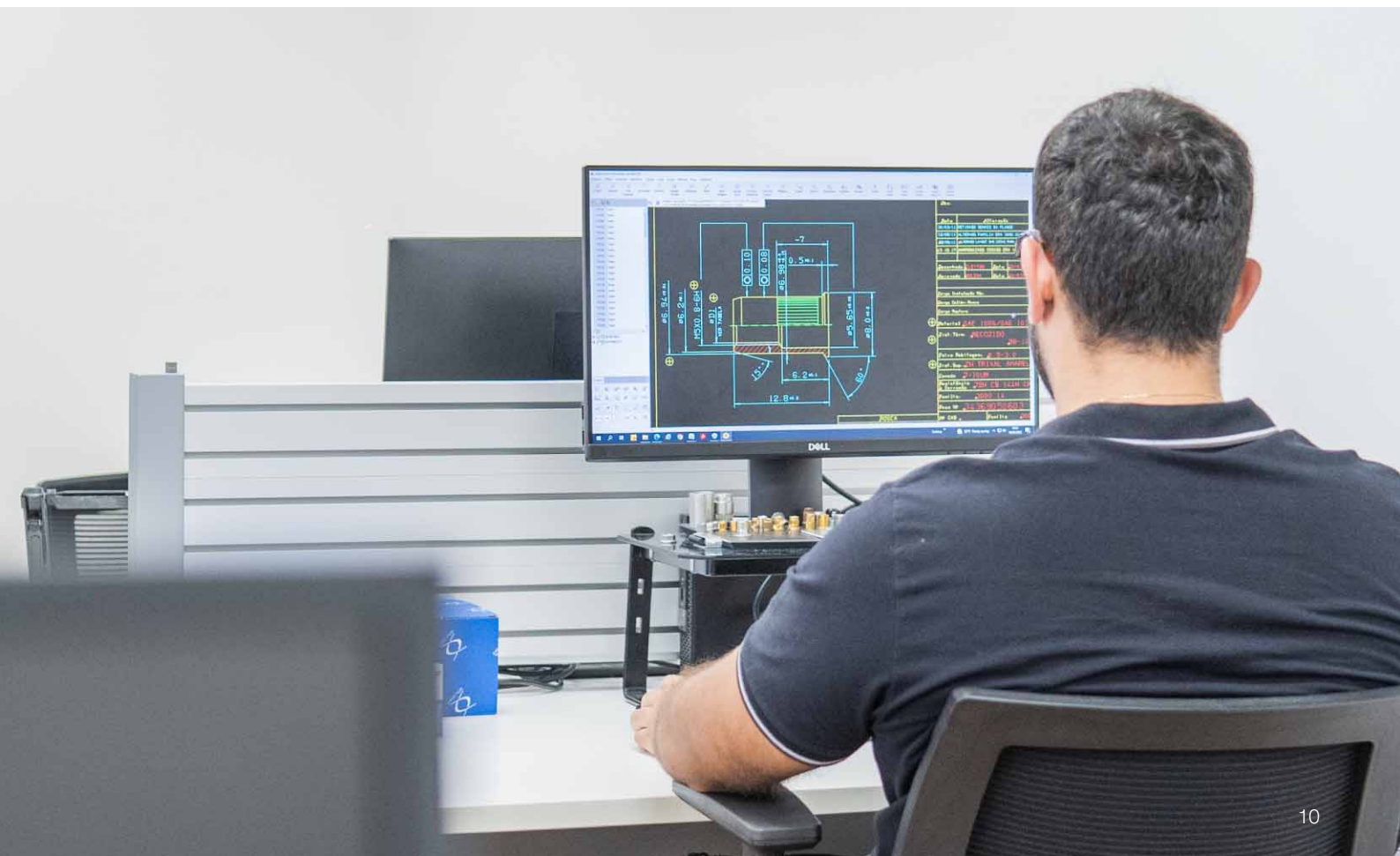
- From drawing to delivery — one partner, end to end
- Co-engineering from the earliest design stage
- Fast prototyping and qualification support
- Full traceability at every production step
- Flexible volumes, from first article to series

Our customisation capabilities:

- Materials
- Locking functions
- Dimensions
- Specific features
- Treatments

Looking for specific nuts for your future aerospace programs?

Please contact us to explore the possibilities.



Competence leader in 360° Joining Technology

- so what does this mean for you?



As a family-run business, we have been creating successful joints since 1877. Whenever you want to join components or need special development parts, we are by your side. For that, we rely on our enthusiastic team who have management- and product specific know-how, as well as on our 360° Joining Technology which stands for a wide portfolio of joining solutions, processing systems and services.

Innovation and development

- Modern methods, organisational forms and processes
- Trend analyses
- Research cooperations
- Open innovation
- In-house research and development
- Application engineering and consulting
- Customer-specific development parts
- Manufacture of samples and prototypes
- Value analyses

Procurement and assembly

- Engineering competence thanks to in-house production
- Thirteen modern production facilities worldwide
- Production methods:
 - Injection moulding
 - Turning
 - Cold working
 - Wire winding
 - Mechanical and plant engineering
- Acceleration of your assembly processes
- Wide range of manual and automated assembly solutions

Logistics and quality

- Supply chain solutions
- Quality management according to IATF 16949
- Quality management according to EN 9100
- Regular audits through customers
- Distinctive quality and environmental awareness
- Accreditation of the in-house laboratory
 - according to DIN EN ISO/IEC 17025
 - certification according to DIN EN ISO 14001

Sales and services

- Efficient consulting, assistance and service
- Local expert specialists
- Proximity to customers thanks to global presence
- After-sales service
- Expert seminars, training and workshops
- Online seminars
- Customer in-house fairs
- eShop

Please do not hesitate to contact us.

We are looking forward to our next joint success story.



Passion for successful joining.

Böllhoff Group

Competence leader in 360° Joining Technology

Find your local partner at www.boellhoff.com or contact us at fat@boellhoff.com.