

BÖLLHOFF

Nuclear industry meets 360° Joining Technology



The nuclear industry - joining forces for tomorrow's energy

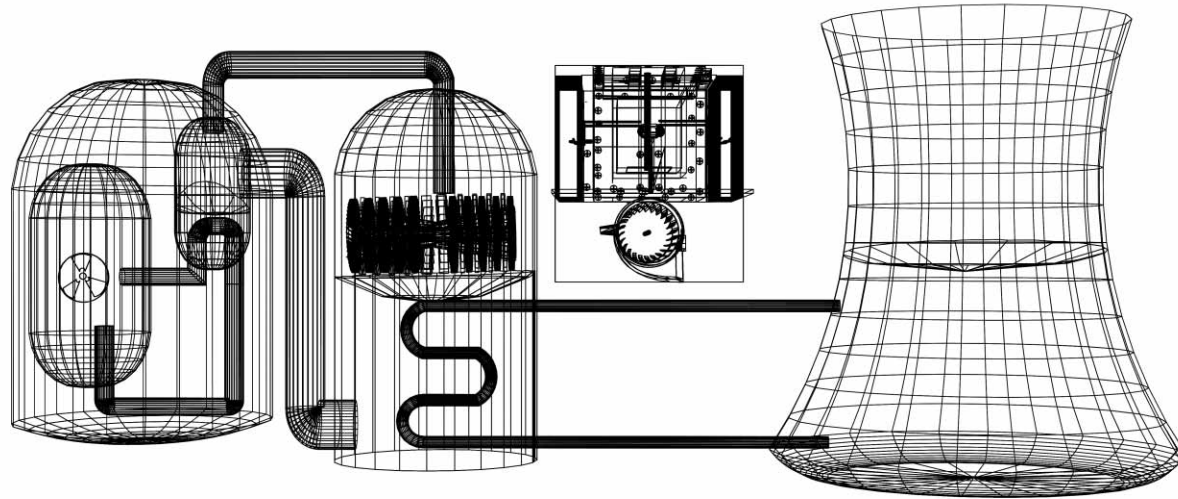
At Böllhoff, we have always kept in mind that safety is at the heart of every nuclear project. We are proud to be certified to **ISO 19443** demonstrating our commitment to best safety practice in the nuclear sector. Every joining solution we provide is designed to ensure optimum structural integrity, which is essential to protect workers, facilities and surrounding communities.

Waste management and resource sustainability are also major concerns. We know that every component must not only perform, but also be designed to last. Our joining solutions incorporate corrosion-resistant materials adapted to the most demanding environments, contributing to the durability of nuclear infrastructures.

Innovation is also at the heart of our approach. In an industry that is constantly evolving, we invest in research and development to offer state-of-the-art joining solutions. From new-generation reactors to dismantling projects, we are determined to support our partners with products that meet the most stringent standards.

Find out in this brochure how Böllhoff is engaged in providing innovative and reliable joining solutions, essential to the success of your nuclear projects.





- Steam generator
- Reactor vessel
- Turbine
- Pump technologies
- Fittings
- Pipelines
- Nuclear fuel transport packaging
- Castor container

Your requirements:

Nuclear systems operate in very challenging conditions. Therefore, they need reliable and durable solutions that guarantee the safety of the installations. They must be made from materials that are resistant to corrosion, radiation and extreme temperatures. They must also have a high mechanical resistance.

Our solution:

HELICOIL® thread inserts for strong screw joints

From M2 to M320.

Your advantages:

Quick and cost-effective solution

- HELICOIL® thread inserts offer a quick and cost-effective solution thanks to their easy installation, reducing downtime and maintenance costs while extending the life of assemblies.

Corrosion resistance

- The use of stainless steel provides higher corrosion resistance, an important factor in the potentially corrosive environment of nuclear power stations. This material also offers excellent durability.

Easy assembly and disassembly of components

- This solution allows easy assembly and disassembly. This is particularly important for nuclear fuel packaging lids, which need to be opened and closed several times.

Repairability

- HELICOIL® makes it easy to repair damaged threads with our thread repair kits. At Böllhoff, we believe in the circular economy, by repairing rather than disposing.



HELICOIL® tools:

HELICOIL® specific tools for nuclear industry's needs

Standard tools often fall short for the nuclear industry's needs, where larger HELICOIL® dimensions are common. Therefore, we develop tools tailored to your specific requirements for assembling thread inserts. We can create tools for any HELICOIL® size, ensuring precise and reliable assembly.



Inserts for thread reinforcement **HELICOIL®**



Thread inserts for in-moulding processes **IMTEC®**

Adhesive bonding of fasteners **ONSERT®**



High-strength thread inserts for metallic materials **KOBSERT®**

Tolerance compensation systems **FLEXITOL®**



Blind rivet nuts and studs **RIVKLE®**

Vibration- and noise-decoupling plug-in connections **SNAPLOC®**



Blind rivets for high-strength, permanent joints **RIVQUICK®**

Vibration and noise decoupling **SITEC®**

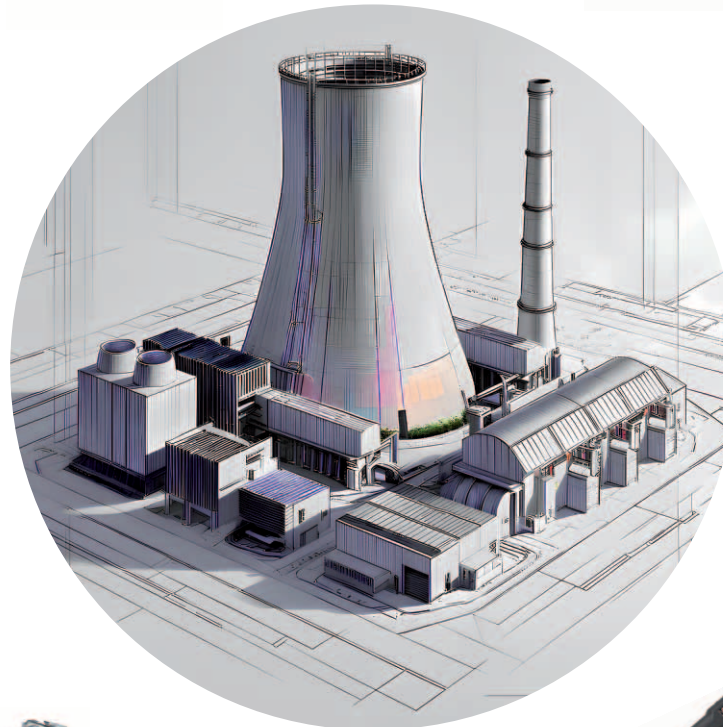


Repair solutions for defective threads with **HELICOIL® Kits**

Quick-release systems **QUICKLOC®**



Setting equipment



Customer-specific thermoplastic development parts and assemblies **TEPRO®**



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 – standardised or as individual as yourself.

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

Catalogues

Product catalogues



HELICOIL®

Thread technology for high-strength fastenings
Catalogue No 0101

<https://www.boellhoff.com/en/pdf/helicoil-plus>



HELICOIL® Kits

Repair solutions for damaged threads – repaired, better than new
Catalogue No 0180

<https://www.boellhoff.com/en/pdf/thread-repair>

Product overview



Product Guide

360° Joining Technology

Catalogue No 1190

<https://www.boellhoff.com/en/pdf/product-guide>

Videos

Joining elements



HELICOIL®

Thread technology for high-strength fastenings

<https://www.boellhoff.com/video/helicoil-plus>



HELICOIL® repair solutions

Thread repair for large diameters - M 30

<https://www.boellhoff.com/video/thread-repair-with-helicoil-for-large-diameters-m30>

BÖLLHOFF

Passion for successful joining.

Böllhoff Group

Competence leader in 360° Joining Technology

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