



Product Overview  
Fastening and Assembly Technology

**BÖLLHOFF**

# We serve every link of your supply chain



## Development

- Application engineering
- Customer-specific solutions
- Investigation of future trends



## Testing

- Prototype construction
- Certified testing laboratory according to DIN EN ISO 17025
  - Mechanical testing
  - Physical/chemical testing



## Quality

- 100 % checked product quality
- Certified quality management (ISO/TS 16949, ...)
- Certified environment management according to DIN EN ISO 14001

## Tailor-made solutions thanks to customer-specific industry know-how

### Automotive

As an experienced partner in development, we contribute our innovative capacity in fastening technology and thus take part in the realization of most up-to-date vehicle concepts. As a system provider, we also provide the required assembly solutions for smooth production processes.



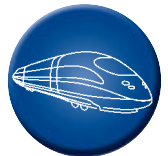
### Aerospace

Tried and tested – and innovative! For several decades, our HELICOIL® thread inserts have been successfully employed in the aerospace industry, e.g. in engine construction. Together with you, we strive to develop the fastening technologies of tomorrow, for new composite materials for example.



### Railway

Whether you take a look at trams and trains or at railway infrastructure and station equipment – you find our technologies everywhere. Our FLEXITOL® tolerance compensation systems for flush-mount assembly of direction indicators in the control desks of locomotives, for example.



### Agricultural machinery

You achieve high-strength threads with AMTEC® thread inserts in plastic components such as instrument panels. For special requirements with respect to repeated screwings, self-locking HELICOIL® thread inserts are the first choice.



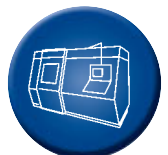
### Construction machinery

We develop customer-specific solutions for specific requirements – for example a RIVKLE® blind rivet nut with sealing ring for fastening the cover to the diesel tank of an excavator or a HELICOIL® screwlock as a screw locking device for heavy vibrations.

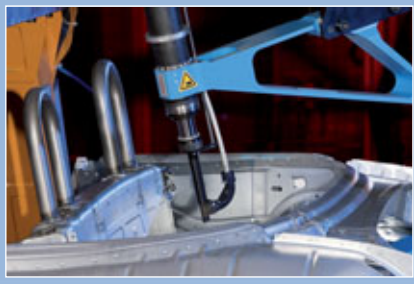


### Mechanical engineering

Complex and diverse in combining mechanics and electronics. Fine-adjustment under dynamic load – a core requirement in mechanical engineering. Secure adjusting screws of printing presses with a stainless steel HELICOIL® screwlock thread insert, for example.



# – all over the world!



## Production

- Acceleration of your assembly processes
- Wide range of manual and automatic assembly solutions



## Logistics

- Individual customer solutions
- 100 % readiness to deliver
- Automatic supply systems



### Solar

The lead in technology is yours – with our products. Such as in the field of corner joints of solar modules. Depending on the requirement, you can employ our RIVTAC® high-speed joining technology or our self-pierce riveting or clinching technologies.



### White goods

You want to join thin-walled components, without any damage to the surface? Use RIVQUICK® blind rivets or RIVSET® self-piercing rivets. Or create screwed connections with RIVKLE® blind rivet nuts and even integrate UNIQUICK® screwdriving technology into your assembly process.



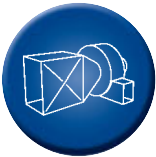
### Electronic industry

A great number of fields of application for fastening technology. Plastic electrical switch boxes are equipped with brass AMTEC® thread inserts, for example, or the front of fuse boxes is installed with our QUICKLOC® quick releases.



### Medical engineering

Precision is our joint business! Medical appliances have to function reliably and are therefore regularly serviced. Decoupling SNAPLOC® fasteners are perfect to easily assemble and disassemble cover parts of anaesthesia apparatus for example.



### Sheet metal working


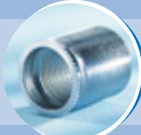














We offer a wide range of fastening technologies for sheet metal working. From blind riveting and self-pierce riveting technology to decoupling fasteners to our new ONSERT® technology for fast and process-sure adhesion of functional elements.



### Plastics processing

Many technologies of sheet metal working can also be employed for plastics. Especially for plastics, we offer plastic screwing solutions, brass thread inserts for different installation methods as well as self-punching functional elements.

# Our product range – an overview

Product description	Joint		Acces
	detachable	non-detachable	one-sided
 <b>HELICOIL® thread inserts</b> Wire thread inserts for high-strength fastenings in metal materials of low shear strength	●		●
 <b>KOBSERT® threaded bushes</b> Vibration-resistant and torsion-proof nut threads in metal materials of low shear strength	●		●
 <b>HELICOIL® locknuts</b> High-strength, process-sure joints of steels, aluminium and plastics	●		●
 <b>SEAL LOCK® sealing nuts</b> Sealing against gaseous and liquid media under high pressure	●		●
 <b>IMTEC® moulded inserts</b> Thread inserts for in-moulding	●		●
 <b>AMTEC® thread inserts</b> Brass high-strength thread inserts for plastic components	●		●
 <b>UNITEC® K' in K' screwing solutions</b> Screws, inserts and screw systems as a plastic fastening solution for plastic	●		●
 <b>ONSERT® adhered fasteners</b> Fast and process-sure adhesion of most diverse functional elements	●		●
 <b>QUICKLOC® quick releases</b> Clamp, rotation and pressure locks for repeatedly releasable joints	●		●
 <b>FLEXITOL® tolerance compensation</b> Systems for automatic and stepless compensation of production tolerances	●	●	●
 <b>SNAPLOC® decoupling fasteners</b> Fasteners and fastening systems for decoupling of vibration and noise	●	●	●
 <b>RIVKLE® Elastic</b> Blind rivet nut for decoupling of vibration and noise	●	●	●
 <b>RIVKLE® blind rivet nuts and studs</b> Fastening of a high-strength nut or stud thread to thin-walled components	●	●	●
 <b>RIVQUICK® blind rivets</b> Strong and high-strength joints of metal or plastic components		●	●
 <b>RIVTAC® tacks</b> High-speed joining of mixed, multiple-layer and hybrid joints		●	●
 <b>RIVSET® self-pierce rivets</b> High-strength and process-sure joints of steels, aluminium and plastics		●	
 <b>RIVCLINCH® clinching technology</b> Form-fitting and non-positive joints of sheets and profiles by cold-working		●	

\*Machines for inductive and thermal installation, KVT Bielefeld GmbH

sibility	Metal and/or plastic component				Processing			
	thin-walled		massive		plastic dome	stud	in the program	
two-sided	with pre-punch	without pre-punch	with pre-punch	without pre-punch			manually	automatic
			●				●	●
			●				●	
						●	●	
						●	●	
●				●	●			
			●		●		●	●*
	●		●		●		●	
		●		●			●	●
	●						●	
	●		●				●	
	●		●				●	
	●						●	●
		●						●
●		●					●	●
●		●					●	●

Please do not hesitate to ask us for the assembly solutions for our fasteners. Here you find a selection of our systems.



**HELICOIL®**

Example of processing:  
P-S 412 pneumatic tool to install wire thread inserts with installation mandrel



**AMTEC®**

Example of processing:  
Thermal installation – pneumatic ERW thermal installation machine for embedding AMTEC® thread inserts



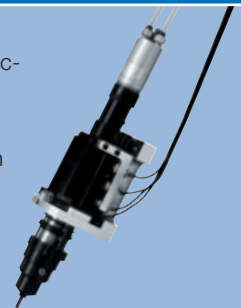
**RIVKLE®**

Example of processing:  
RIVKLE® P2007 pneumatic-hydraulic tool to install blind rivet nuts and studs



**RIVKLE®**

Example of processing:  
RIVKLE® HSA 803 pneumatic-hydraulic setting head for the automatic installation of blind rivet nuts and studs with integrated process control



**RIVQUICK®**

Example of processing:  
RIVQUICK® T pneumatic-hydraulic tool to install blind rivets



**RIVSET®**

Example of processing:  
RIVSET® Gen<sup>2</sup> modular, fully automatable self-pierce riveting system for maximum flexibility



**RIVTAC®**

Example of processing:  
RIVTAC® Automation pneumatic tool for fully automatic joining of high-strength materials in high speed



**RIVCLINCH®**

Example of processing:  
RIVCLINCH® 0404IP pneumatic tool for joining without fastener and without damage to the surface



You find information on our complete range of manual and automatic processing systems in the individual product catalogues. Please do not hesitate to contact us for a personal consultation.

Screw fastening, feeding and separation of fasteners

Die Böllhoff Gruppe

**UNIQUICK® Advance**

The feed stroke screwdriver with fixed and protruded screw allows working with less application of power. The screwdriver does not touch the component surface.



**Hand-held fastening**

**UNIQUICK® Vario**

The stationary units of the UNIQUICK® Vario family can be used in the most diverse ways. They fasten at the highest possible quality and process reliability and can be perfectly integrated into complex installations.



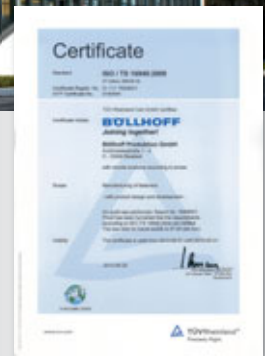
**Stationary fastening**

**UNIQUICK® Feeder**

The vibratory feeder offers low-noise feeding of fasteners without damage to the parts and with the jam-free baffle it ensures very high availability of the separation.



**Automatic feeding**



**We are:**

- Partner in the development process of our customers
- System supplier for fasteners and their assembly
- Manufacturer with production facilities in Europe, Asia and America
- Experienced in many production technologies: cold-forming, injection moulding, turning and coiling
- Committed to quality
- A family-run business with more than 135 years of experience
- Represented in more than 23 countries worldwide



Michael W. and Wilhelm A. Böllhoff

**Your partner for successful joining – worldwide.**

As the Böllhoff Group, we can also offer you the following services:



- DIN/ISO and Böllhoff standard parts: more than 42,000 standard fasteners
- Economical procurement and supply systems – ECOSIT®
- Application engineering – ECOTECH
- Economical bag packagings – ECOPACK

**Böllhoff International with companies in:**

Argentina  
Austria  
Brazil  
Canada  
China  
Czech Republic  
France  
Germany  
Hungary  
India  
Italy  
Japan  
Korea  
Mexico  
Poland  
Romania  
Russia  
Slovakia  
Spain  
Switzerland  
Turkey  
United Kingdom  
USA

Apart from these 23 countries, Böllhoff supports its international customers in other important industrial markets in close partnership with agents and dealers.

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

