Fastening and assembly technology

Products and services
The Böllhoff Group

We are one of the world’s leading manufacturers and suppliers of fasteners and assembly systems. As a family-run business we stand for long-term success – through highly-qualified employees, innovative products and customer-friendly services. Since 1923 the head office of the company, founded in 1877, has been in Bielefeld. Our product range includes more than 100,000 items ranging from standard screw fasteners right through to fully automated assembly machines.

With 3,000 staff and a turnover exceeding € 600 million, we have more than 40 locations worldwide in 24 countries. Outside of these countries, agents and dealers support our international customers in close partnership.

Passion for successful joining.
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Local to our customers

We provide our customers with comprehensive local support through a network of sales offices and logistics centres. These range from logistical services and customised advice, to customer-specific product developments.

Our customers are assured of speedy and economic solutions exactly where they are needed through local expertise and quick decisions. We aim to inspire our customers day after day with outstanding products and premium services.

The Böllhoff Group in Europe

Local representation by agents
Manufacturer’s expertise

We are specialists in the development of innovative, high-quality fastening technology. Our range of services includes solutions for metal and synthetic materials in blind rivet and thread technology, as well as plastics joining and quick-release technologies – all in combination with a wide selection of processing systems. Our solutions thus help make our customers more competitive.

Partner to many industries

We always work in close collaboration with our customers to develop and select our production range.

This mutual dialogue is a strong basis for our product competence and proximity to market. We also offer a clearly structured range of services, geared to the needs of our target market, which guarantees that users from all industries always have a competent advisor to turn to.
We deliver over 50,000 DIN and ISO fasteners made from steel, stainless steel, brass and plastic, direct from stock.

Comprehensive range of screws with hexagonal and square head in all standard thread types.

**Your benefits at a glance**
- Steel strength classes from 3.6 to 12.9
- Various Cr(VI)-free surfaces
- Stainless steel in A1, A2, A4
- Certified Böllhoff quality
- All products are also available to order online

**Our ranges**
- Hexagon head bolts, self-locking screws
- Self-drilling screws, threaded self-tapping screws
- Tapping screws
- Locking screws
- Tolerance bolts
- and many more

**Cap screws with internal driving feature**

Comprehensive range of screws with various internal driving features and different thread types.

**Our ranges**
- Mushroom head bolts, wing screws
- Ring bolts, eyebolts
- Countersunk bolts, studs
- Threaded self-tapping screws, knurled screws
- T-head bolts, stud bolts
- and many more

**Hexagonal bolts**

**Other screws**

Exclusive range of screws for a wide range of special customer requirements.

**Our ranges**
- Cylinder screws, self-locking screws
- Self-drilling screws, thread-rolling screws
- Tapping screws, slotted set screws
- Pan head screws, flanged button head screws
- Countersunk bolts, locking screws
- and many more
Extensive range of pins, rivets and wedges for many different applications.

Our ranges:
- Blind rivets, expanding blind rivets
- Round head rivets, blind rivet nuts
- Mandrels, pins
- Mandrel holders
- Countersunk head rivets
- and many more

Wide range of other C-parts – from threaded rods to hose clips.

Our ranges:
- Threaded rods, cylinder rods
- Lock rings, adjusting rings
- Turnbuckle nuts, spring pins
- Spring cotters, conical grease nipples
- Hose clips
- and many more

Wide range of nuts for various applications.

Our ranges:
- Hexagon nuts, self-locking nuts
- Square nuts, wing nuts
- Hexagon weld nuts
- Insert nuts, knurled nuts
- Eye nuts, hexagon cap nuts
- and many more

Wide range of washers and sealing rings in numerous sizes and versions.

Our ranges:
- Washers, lock washers
- Spring washers, spring lock washers
- Shim rings, tooth lock washers
- Serrated lock washers
- Sealing rings
- and many more
**Thread technology**

**HELICOIL®**

**Thread inserts**

Thread inserts for high load-bearing resilient joints in metal materials with low shear strength.

**Your benefits at a glance**
- High thread loading
- Adds quality and value
- Wear-resistant, low and constant thread friction
- Highly resilient
- Corrosion temperature-resistant

**KOBERT®**

**Thread bushes**

Thread inserts for creating vibration-resistant and torsion-proof nut threads in metal materials with low shear strength.

**Your benefits at a glance**
- Highly resilient and wear-resistant
- Vibration-resistant and torsion-proof
- Suitable for thread repair
- Sealing (version with sealing ring)

**HELICOIL® Kits**

**Thread repair**

HELICOIL® Plus thread inserts are the fast way to repair damaged threads.

**HELICOIL®**

**Kits**

**Thread repair**

**Typical applications**
- Oil drain threads
- Spark plug threads
- Lambda probe threads
- Wheel bearing threads
- Injector screw threads

**HELICOIL®**

**Kits**

**Thread repair**

**Self-locking nuts**

Highly durable, reliable joining of steels, aluminium and plastics.

**Your benefits at a glance**
- Consistent clamping torque even when reused
- Consistent load and stress distribution
- High thermal stability
- Constant thread friction
- Reduced residual dirt
**SEAL LOCK®**  
Sealing nuts

Sealing from gaseous and liquid media subject to high pressure.

**Your benefits at a glance**
- One-piece element
- Double sealing action
- High preload force
- Up to 5 repeat fastenings
- Thermal stability from -40°C to 110°C

**KAPTI NUT®**  
Insert nuts

High-strength, captive joints for thin steel, aluminium and stainless steel sheets.

**Your benefits at a glance**
- Captive threaded element
- High mechanical strength
- Can be used on both sides
- Inserts in one action

**IMTEC®**  
Moulded inserts

Moulded inserts especially for thermoset and thermoplastic materials as well as CFRP composites.

**Your benefits at a glance**
- Maximises usable thread length
- Corrosion and acid resistance
- Greater technical cleanliness (minimises residual dirt)
- High pull-out force
- Weight reduction of the component

**AMTEC®**  
Thread inserts

High-strength brass thread inserts for plastic parts.

**Your benefits at a glance**
- Shorter injection cycles
- Lower manufacturing costs for plastic parts
- Secure, stress-free anchoring
- High pull-out and torsion values
- Infinitely repeatable screw fastening unlike self-forming screws
Riveting technology

**RIVKLE®**
Blind rivet nuts and screws

Blind rivet nuts and screws for securing load-bearing nut and bolt threads to thin-walled components.

**Your benefits at a glance**
- Load-bearing thread on thin-walled components
- Assembly with access from only one side (blind assembly)
- Flexible use in every stage of production
- No thermal stress to workpiece – consequently no warping

**RIVKLE® Kit**
Repair solution for thin-walled components

Example: Range with setting tool for manual riveting.

**Example: Contents of each kit**
- 50 blind rivet nuts M 6
- 25 blind rivet nuts M 8
- 25 blind rivet nuts M 10
- RIVKLE® M2007 setting tool
- 1 mandrel and 1 nozzle for each size

**RIVQUICK®**
Blind rivets

Strong and high-strength, non-detachable joints for metal and plastic components.

**Your benefits at a glance**
- For joining thin-walled components
- No thermal stress to workpiece – consequently no warping
- Also suitable for coated components
- Wide range of materials for the fastening element (aluminium, steel, stainless steel, etc.)
- Fast, low-emission
RIVSET®
Self-pierce rivets

Highly durable, reliable joining of steels, aluminium and plastics.

RIVTAC®
Tacks

High-speed tack for joining mixed, multilayer and hybrid joints.

Your benefits at a glance

- High-strength
- Suitable for visual inspection
- Reproducible
- No pre-drilling
- Watertight and airtight

Your benefits at a glance

- Join without pre-punching with access from one side only
- Joining and cycle times reduced to a minimum
- Perfect joining of high-strength materials
- Can be optimally combined with adhesion technology

RIVQUICK® Kit
Repair solution for thin-walled components

Example: Assortment with setting tool for manual riveting.

Example: Contents of each kit

- BRS 02 setting tool
- A variety of blind rivets made of aluminium with steel mandrel
- 4 nozzles
- 2 drills
Quick-release fasteners and adhesive technology

**QUICKLOC®**
Quick-release fasteners

![Clamping, turning and pressure fasteners for repeatedly releasable joints.](image1)

**Your benefits at a glance**
- Quick subassembly installation without tools
- Open clockwise and counter-clockwise
- Easy locking by turning or axial pressure
- Resistant to dirt

**FAST TURN**
Quick-release fasteners

![Fastening elements for repeatedly releasable joints.](image2)

**Your benefits at a glance**
- Opens and closes quickly
- Easy installation
- Easy operation
- Perfect solution for large-scale production

**ONSERT®**
Adhesive fasteners

![Fast and reliable adhesive bonding of various functional elements using a base made of transparent plastic with light-curing adhesive.](image3)

**Your benefits at a glance**
- Full mechanical load capacity immediately after irradiation
- Short curing times (< 4 seconds)
- Fastening elements cannot be seen in plastics or thin-walled components (design)
- Adhere to a wide range of materials
- Flexible use, even after surface treatments (painting/cathodic electrodeposition coating)
Decoupling and tolerance compensation technology

**RIVKLE® Elastic**
Blind rivet nuts

![Blind rivet nuts](image1)

Blind rivet nuts for vibration and noise-decoupling.

**SNAPLOC®**
Decoupling plug-in connections

![Fasteners and fastening systems](image2)

Fasteners and fastening systems for absorbing vibration and noise.

**Your benefits at a glance**
- Resilient thread body on thin-walled components
- Vibration and noise-decoupling
- Thermal and electrical isolation
- Easy installation

**Your benefits at a glance**
- Quick and easy assembly/disassembly
- Vibration and noise-decoupling
- Tolerance compensation in centre distances
- Wide range of fastening options
- Easy integration

**FLEXITOL®**
Tolerance compensation systems

![Tolerance compensation system](image3)

A cost-effective technical solution for the stepless compensation of tolerances.

**Your benefits at a glance**
- High functional reliability
- Access required from one side only
- Easily integrated into a wide range of applications
- High end product quality
- Quick and easy assembly
- Prevents warping during assembly
Screw locking

**NORD-LOCK® Screw locking**

NORD-LOCK® wedge-locking washers are locking elements that comply with DIN 25 201 and which lock the threaded connection by preload force instead of friction.

### Your benefits at a glance

- Optimal locking solution under strong vibrations and dynamic loads
- Locking effect even under low preload
- Suitable for applications up to screw strength class 12.9
- Suitable for multiple reuse without losing effectiveness
- Reliable locking element for rail and construction

**Chemical thread locking**

Chemical thread retention is an alternative to anaerobic adhesives. The coatings can be adhesive, locking and sealing.

### Your benefits at a glance

- Good, reliable locking and clamping effect
- Simple, safe assembly
- Effective seal
- No change in component geometry
- Removable

**RIPP LOCK® Screw locking**

During assembly of the fastener, the radial ribs of the RiPP LOCK® fasteners press into the respective mating surface. The resulting form fit reliably prevents self-loosening of the joint.

### Your benefits at a glance

- Reliable anti-rotation lock
- Suitable for applications up to screw strength class 12.9
- Also suitable for sensitive surfaces
- Suitable for multiple reuse
- High corrosion and heat resistance
**HELICOIL® Screwlock**
Thread inserts with screw locking function

These thread inserts also have an additional screw-locking section. The clamping torques are comparable with those specified in ISO 2320.

**Your benefits at a glance**
- High thread loading
- Integrated screw locking function
- Corrosion-resistant and temperature-resistant
- Different versions for varying requirements
- Highly resilient and wear-resistant

**HELICOIL® Locknouts**

Highly durable, reliable joining of steels, aluminium and plastics.

**Your benefits at a glance**
- Consistent clamping torque even when reused
- Uniform load and stress distribution
- High thermal stability
- Constant thread friction
- Reduced residual dirt

**SAPER LOCK®**
Locknuts

The SAPER LOCK® self-locking nut consists of a stainless steel spring that is integrated in the body of the nut. When the nut is screwed into place, the spring expands, integrating itself in the body of the nut with virtually no friction.

**Your benefits at a glance**
- Complete anti-rotation lock
- Adjusting nut and loss prevention
- Easy installation and handling
- Suitable for multiple reuse without losing effectiveness
- Efficient application – reduction of maintenance costs
Self-tapping fasteners

**AMTEC®**
Self-tapping fasteners for plastics

AMTEC® screws are thread-forming fasteners which are suitable for the direct screw fastening of thermoplastic components.

**Your benefits at a glance**
- Highly resilient self-tapping fastening in plastics
- High pull-out forces
- Reliable screw fastening
- Releasable and reusable
- Special solutions available on request

**EJOT DELTA PT®**
Self-tapping fasteners for plastics

These are thread-forming/thread-rolling screws for easy and secure self-tapping fastening in thermoplastic materials.

**Your benefits at a glance**
- Highly resilient self-tapping fastening in plastics
- High fatigue strength
- Reliable thanks to high tensile, torsional and vibration resistance
- Minimal radial stress
- Wide range of tightening speeds available

**QUICK FLOW®**
Self-tapping fasteners for thin sheets

QUICK FLOW® screws are ideal for joining particularly thin sheets and components.

**Your benefits at a glance**
- No predrilling or punching of material required
- No guide thread required
- Elevated overtorque values ensure good process reliability during assembly
- Repeated loosening and tightening possible
- Secure, long-lasting fastening
Additional product ranges

**NAVITIGHT®**
Screws

Thanks to the special geometry of NAVITIGHT® screws, incorrect insertion angles are automatically corrected during assembly.

**Your benefits at a glance**
- Reliable screw fastening
- Prevents cross-threading
- Reduced error rate leads to time and cost savings
- Suitable for automated screw fastening
- Paint shaving function removes (paint) residue in the mating thread

**SEALING PLUG**
Plug seals

The plug seals are made of two all-metal components. They are used to permanently seal holes in pneumatic and hydraulic components.

**Your benefits at a glance**
- Easy installation
- Reliable and efficient
- Operating pressures up to 500 bar
- Complies with RoHs
- Wide range of items

**PARRYPLUG®**
Tamper-resistant elements

PARRYPLUG® is a locking element for internal drives to prevent tampering with thread connections by unauthorised staff.

**Your benefits at a glance**
- Easy and convenient to install
- Perfectly tight fit provides maximum protection against tampering
- Can be removed with appropriate tool
- Wide temperature range (-50°C to +200°C)
- Customised colouring available
Custom-made and engineering parts

Custom-made parts made of metal and special materials

We offer you the best solution for your application from both a technical and economic point of view while taking into account requirements regarding material, manufacturing processes and surface finishes. For us at Böllhoff, providing advice is as important as meeting customer requirements quickly and reliably. We offer support right from the design stage, through the creation of prototypes, to serial production.

Your benefits at a glance

- Fasteners in all dimensions, lengths and diameters
- In all batch sizes – from 1 to over 1,000,000 units
- Individually assembled, labelled and packaged on request
- Including inspection certificates
- Maximum quality
Solutions for virtually any application. We are the perfect partner for customised solutions to meet high demands. We develop and manufacture these products for the automotive, aerospace and many other industries.

**TEPRO® and ELASTEC®**

Custom-made engineering parts and assemblies made of plastics, silicones and elastomers

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<td>In-house development, design and prototype manufacture</td>
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<td>State-of-the-art tool making</td>
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**HELICOIL®**

Electric screwdriver type E-PSG with prewinder

For quick and accurate processing of all HELICOIL® types.

**QUICKSERT®**

Pneumatic installation tool type P-S 1216

For quick processing of self-tapping thread inserts in thermoplastic and thermoset materials.

**ONSERT®**

Battery-operated ONSERT® Portable manual tool

For manual processing of ONSERT® fasteners.

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**Your benefits at a glance**

- Automatic reversal when insertion depth is reached
- Infinitely variable: Speed/torque
- Compatible with existing tool systems (exchange unit)
- Ease of use
- Ergonomic design and compact size
- Quiet operation

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**Your benefits at a glance**

- Increased concentricity
- Infinitely variable stop clutch
- Ease of use
- Low maintenance

*QUICKSERT® is part of the AMTEC® product group.*

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**Your benefits at a glance**

- Ergonomic two-component housing: secure grip and non-slip
- Tailored lamp geometry ensures optimal curing
- USB connection for process monitoring
- 3-position pushbutton for fast and reliable positioning

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We can also supply the appropriate assembly solutions for our fasteners. You can find a selection of our processing systems here.
RIVKLE®
RIVKLE® P2007 pneumatic setting tool

For the fast, force-monitored processing of blind rivet nuts and studs.

Your benefits at a glance
- Just one force setting for different component thicknesses
- Long service life due to optimal force setting
- Multiple riveting possible
- Extra light (2 kg)
- Pressure setting method
- Flexible and versatile

RIVQUICK®
RIVQUICK® P2000 hydraulic-pneumatic setting tool

For quick processing of blind rivets.

Your benefits at a glance
- Reliable
- Lightweight and ergonomic
- Long service life
- Compact design
Assembly technology

**RIVTAC®**

Fully automated system with RIVTAC® Automation P process monitoring

For innovative tack-setting at high speed.

**Your benefits at a glance**

- Maximum flexibility in production planning
- Modular design allows flexible positioning
- Quick and easy maintenance
- Compact setting tool for optimum access to application point
- Quick response times

**RIVCLINCH®**

PASS series with RIVCLINCH® 4006 P50 PASS hydraulic drive and compressed air booster

For surface-friendly joining without a fastener.

**Your benefits at a glance**

- Powerful all-purpose clinch machine
- Joins the most common material combinations up to a total thickness of 4 mm
- “Passive Approach Stroke System” for secure and lightweight tool positioning
- High process speed for series of high quality clinch joints
- Quick and easy maintenance
- Highly reliable
**RIVSET®**

Electric-hydraulic RIVSET® Automation EH self-pierce technology

For efficient processing of semi-tubular self-pierce rivets.

**Your benefits at a glance**

- Long service life with maximum availability
- Minimal maintenance costs
- Modular and extensive machine models
- Machine configuration via Plug&Play
- Remote access to control software
- Fast and powerful CPU

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**RIVKLE®**

Pressure-regulated, path-monitored tool with integrated RIVKLE® EPK C quality control

For process-monitored setting of RIVKLE® blind rivet nuts and studs.

**Your benefits at a glance**

- 100% process control
- Pressure-regulated tool
- Suitable for large production series
- Multilingual touchscreen
- Adjustable alarm and safety devices

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You can find information about our complete range of processing systems in our individual product catalogues. We are also happy to chat to you in person.
eShop – Fastening technology manual with shop function

Our eShop offers over 40,000 DIN and standard fasteners, as well as HELICOIL® thread inserts and RIVKLE® blind rivet nuts. The eShop features all the functionalities of a modern shop system. It also offers everything you would expect of a web-based technical manual for fasteners. There are a variety of options for the technically-minded user – product illustrations, technical specifications, interactive 3D visualisations and CAD downloads.

Your benefits at a glance
- Quick and easy search function
- Secure ordering 24/7
- Up-to-date information about prices and availability
- Item comparison options
- CAD downloads and 360 degree animations
- Detailed technical specifications and drawings

Electronic Data Interchange

EDI is the most important and by far the biggest mainstay of global transfer of electronic data volumes. Electronic data interfaces provide an efficient link between your systems and ours. Worldwide there are countless different structures for EDI messages (e.g. EDIFAC, OFTP, VDA) and we work confidently with them all.
One-stop shop for products and packaging

In addition to provision of fastenings to meet your needs, we are also an expert partner for bagging solutions. We will discuss your packaging requirements face to face to discover the perfect technical and most economical solution.

Our range of services

Our range of services includes automatic packing by computer-controlled packaging machines and customer-specific packaging solutions.

Bag packaging labelling

- Printing with
  - logos
  - barcodes
  - information
  by thermal transfer
- Labelling of bags and cardboard boxes
- Package slip dispenser up to DIN A4

Continuous quality control

- Inspection by light barrier
- Final weight checking using check weighers
- Random sampling
- Inspection by camera

Your benefits at a glance

- Supplier reduction
- Customised packaging solutions
- Expert advice on customer-specific packaging concepts
- Reliable order processing to deadline
ECOSIT® – Efficient procurement and stock-keeping solutions
ECOSIT® (ECOnomic Supply In Time) covers various logistics handling methods.

We find the best solution for our customers depending on the parts involved and the requirements. Whatever the version, this guarantees need-oriented and just-in-time supply for 100% availability. The individual systems differ according to the technology used.

**RFID Box**
All the relevant data is stored on RFID labels. As soon as stocks start getting low, the label is simply thrown into the RFID Box. The order is triggered and the procurement process begins. The 15” touchscreen also allows access to the central database, the control of electronic shelf displays and quick help via the video hotline.

**RFID Ceiling**
Once a container is empty, it is placed in a collection box. The ceiling antenna records the container’s RFID label. The RFID system sends the data to us within a few seconds, which means manual intervention is no longer required. New goods are always supplied in a clean bin.

**RFID Base**
In principle the RFID Base works in exactly the same way as the RFID Ceiling. The only difference is positioning of the antenna. The antenna is built into a floor mat for RFID Base. The antenna reads all the empty bins which are stored on a pallet or in a collection box on the floor mat.

**RFID Shelf**
In this version the reader is located on the top shelf. The empty bins are collected there and the RFID labels are read simultaneously. This version is ideal if space is at a premium.

**ShelfScan**
An order is triggered when the barcodes are scanned on the shelf. We pick and deliver the ordered products as agreed.

**Online ECOSIT®**
All system information can be viewed online at any time and anywhere in the world. Analyses and downloads are available at the touch of a button.

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**Your benefits at a glance**
- Easy and fast shelving and technology installation
- Systematic, clear storage
- Reduction of warehouse and contingency stocks
- High security of supply
- Express deliveries during demand peaks
- Online order process control
- Video hotline
Technical application consultancy service

Potential savings

The cost efficiency of joints does not depend as much on the price of the fastener as it does on the costs for preparation and assembly of the parts to be joined. The main cost drivers in the process are: design, procurement, quality control, logistics, storage, assembly and commitment of capital.

Compared to this, the unit price of the fastener, at 20%, is relatively low.

The future manufacturing costs of a product are, to a large extent, determined at the design stage of a new development. The general rule is: the earlier the fastening technology specialists are brought in, the better.

Our range of services

Our priority is always to improve customer products while cutting the costs of production.

We offer the following services:
- Design and engineering of fasteners
- Design and supply of customised special articles
- Application engineering tests in a certified laboratory
- In-house prototyping
- Standardisation of fasteners
- Optimisation of product lines
- Specialist publications about fastening technology
- Customer seminars
Technical analyses

With our accredited laboratory we offer comprehensive support for the customer’s design departments:

- Preload force measurements
- Friction steel measurements
- Material analysis
- Compression behaviour
- Insertion tests
- Corrosion protection tests
- Tensile tests
- Dynamic strength testing

We also produce our own prototypes for custom-made fasteners as part of our range of application technology services.

Cr⁶⁺-free fasteners

We have chosen a range (VZD) in the field of galvanised zinc surfaces which ensures corrosion protection equivalent to a sophisticated surface in accordance with DIN ISO 4042 = A3C. The corrosion resistance in the salt spray test is greater than 72 hours at zinc corrosion resistance and a minimum of 144 hours until the base metal corrodes. The appearance is iridescent silver. We have many DIN and standard fasteners from the VZD range available from stock.

Antiseize coating

Screwed joints in which both the screw and nut, as well as the clamping parts, are made of stainless steel materials are prone to so-called galling or seizing. The antiseize coating effectively prevents cold welding. Currently DIN 934 nuts and DIN 985 self-locking nuts in A2 are available as standard with the antiseize coating. Other nuts, as well as screws, can be supplied at any time on request.
Quality guaranteed

Fulfilling the quality specifications of our customers – high as they may be – has always been particularly important to us.

Böllhoff has always been among those companies which see customer-specific requirements as a challenge and have always been certified to the latest specifications in quality and environmental management. Our customers benefit directly from the resulting continuous improvements.

Accredited laboratory and certification

Böllhoff was among the first companies to be successfully certified to ISO/TS 16949 – the world’s highest standard for the automotive industry. Böllhoff has its own accredited test laboratory certified to DIN EN ISO / IEC 17025 and the company is certified to DIN EN ISO 14001, further proof of our strong commitment to quality and the environment. These certifications attest to the highly competent testing of our products and our environmentally conscious actions that protect resources.
Specialist publications

In our daily dealings with a wide range of fasteners we frequently encounter “out-of-the-ordinary” questions from customers and interested parties. The answers can be found in the seventh edition of “The Manual of Fastening Technology”, grouped as follows:

- Selecting and calculating a screwed joint
- Standards
- Materials
- Manufacture
- Threads
- Assembly
- Self-tapping fasteners
- Fastener retention
- Corrosion protection

Products and markets develop at great speed. Increasing competition and new laws present manufacturers with the challenge of developing alternative technical solutions. We regularly inform our customers about the latest technical developments – in the field of fastener technology, corrosion protection or screw locking, for example. Our specialist publications “The Manual of Fastening Technology”, Böllhoff Bulletin and Böllhoff News are longestablished and valued reference works in the market.

Böllhoff Academy

The aim of our Academy programme is to help our customers make their fastening and assembly technology as efficient as possible and to constantly produce reliable joints. The courses we offer are geared towards people in both technical and business roles and include technical seminars on fastening and assembly technology, hardness tests in our accredited laboratory, joining technology for plant operators and all aspects of screwing technology for sales staff.
Overview of our product range

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*Note: Norm is withdrawn*
A list of keywords, with the corresponding assignment via the coordinate system, can be found on the following pages.
Overview of our product range

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M

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Mushroom head anchor bolts DIN 25193 G 4
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Washers for cheese head screws DIN 433 Z 8
Washers for clamping devices DIN 6354 Z 6
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Washers for tapping screw screws DIN 6962, 6903 Z 6
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Wing nuts, hexagon nut DIN 6912 Z 6
Wing nuts, American type DIN 315 E 6
Wing nuts, American type DIN 315 A 6
Wing nuts, American type DIN 315 K 6
Wing nuts, American type DIN 315 J 6
Woodfill keys DIN 6689 K 12
Z

Zahn Locknuts B 5151, 5152 Z 8
Zahn Locknuts B 198 C 6

(Technical specifications are subject to change without notice)
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