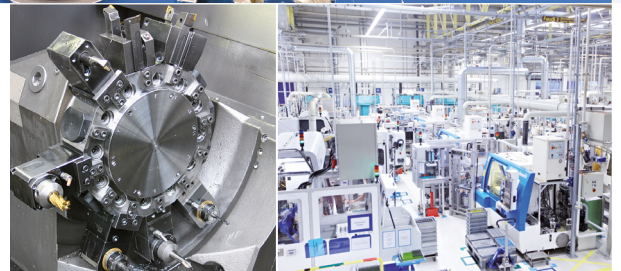




# BERGER GROUP

Berger Moves People. Machines. Technology.



We produce high-precision components according to your requirements and specifications.

Turned and milled parts  
Precision ground parts  
Machined components  
Assemblies



## // Over 65 Years of Expertise

From humble beginnings, ABerger has become one of the world's largest manufacturers of precision turned and machined components in family ownership. With our roots in tradition, we are your competent, highly efficient and reliable partner, producing ready-to-install precision turned, milled and machined components, as well as assemblies. We proudly supply the following industries: Automotive, Hydraulic, Electrical and Building Services, Mechanical Engineering and Drive Technology, Aerospace.

### Infrastructure

- High vertical integration with volume flexibility
- State of the art production technologies
- Large machine pool
- Latest clean room technology with residual dirt analysis
- Innovative measuring techniques
- In-house heat treatment facility
- Production locations in five countries
- Modern communication technology
- 90.000 m2 worldwide shop floor

No matter how demanding or complex your requirements may be, we develop cost effective solutions. Our yardstick is zero defects.

### Machined Materials

- Chromium nickel steels
- Case-hardened and heat-treated steels
- Tool and machining steels
- Non-ferrous metals such as brass, copper and aluminum
- Cast blanks
- Titanium and synthetic materials
- Inconel and Hastelloy - high temperature and high corrosion resistant alloys

ABerger is synonymous with innovation, advanced technology, high quality and Full Service.

Welcome to ABerger.



# HISTORY. INFRASTRUCTURE. FULL SERVICE.

## // Full Service

We develop and produce precision parts with highly skilled staff in 9 locations around the world, in Germany, Poland, Canada, USA and China.

Quality and reliability are already provided during the first customer contacts. From the outset, we employ Simultaneous Engineering during the development phase, in order to guarantee a cost-optimized production of your precision parts.

### We offer the following Value-Added services

- Product development
- Process development
- Tool development
- Machine development
- Heat treatment technology
- Advance quality planning
- Surface technology
- Assembly and logistics

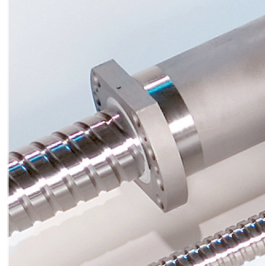
Everyday, hundreds of thousands of components and assemblies are dispatched from our factories worldwide. Here are some of the companies that we are proud to support :

- BorgWarner Turbo Systems
- Caterpillar Inc.
- Continental AG
- Cummins
- Daimler AG
- DMG MORI
- Delphi Corporation
- BMW Group
- Hörbiger Holding AG
- Hilite International
- Index
- Robert Bosch GmbH
- TRW Automotive GmbH
- Tornos S.A.
- Weiss Spindel-technologie GmbH





ADVANCED TECHNOLOGIES.  
INNOVATION. QUALITY.



Quality and our high standards of excellence are also reflected in our staff. Integration and motivation generate ideas and innovation, which optimize processes in our enterprise on a daily basis. High quality awareness is our passion and forms the basis of our success.

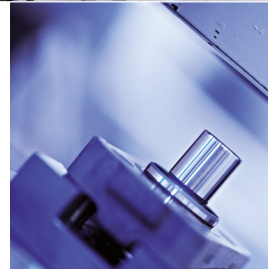
Management systems form an integral part of our business. Within the Berger Group, we are certified to:

- IATF 16949                      Automotive
- AS 9100:D                      Aerospace
- ISO 9001                        Quality Management
- ISO 14001                      Environmental Management
- ISO 45001                      Occupational Health and Safety Management
- ISO 50001                      Energy Management

With our highly efficient machine pool and individually designed production methods we produce ready-to-install precision parts with diameters from 2 mm to 2000 mm and a length of up to 3000 mm.

We machine bars, saw offcuts, casted and forged blanks on automatic indexing, CNC single spindle, six and eight spindle machines as well as on linear transfer machines and machining centers.

We develop and build state-of-the-art machine concepts, automatic testing machines and handling systems for your individual demands. This enables us to use the production systems available on the market even more efficiently for your products, thus increasing productivity.



## // Innovations for the future

When producing ready-to-install precision parts, milled parts, machined components, large parts, ball screw drives, high-precision turned and milled spindles or kits for hollow shaft motors- with our 700 production machines and facilities we can always offer you the perfect production strategy.

We offer you an enormous benefit, which saves you time and cost: **Full Service**. From design through production, finishing to shipping and logistics, we also assemble your components and ship your precision parts all over the world. Local for local- worldwide presence allows us to meet your regional needs.

For our customers we continuously work on the integration and implementation of advanced technologies to enhance the spectrum of our machining technologies - 3D printing for fast prototyping, laser hardening and laser surface structuring technologies, PEM - high precision, electrochemical contour treatment and many more.

## Top-notch heat treatment

In our in-house heat treatment shop we use the latest technology and fully automated lines around the clock. In addition to conventional heat treatment under protective gas and oil quenching, we use low-pressure carburizing with high-pressure gas quenching.

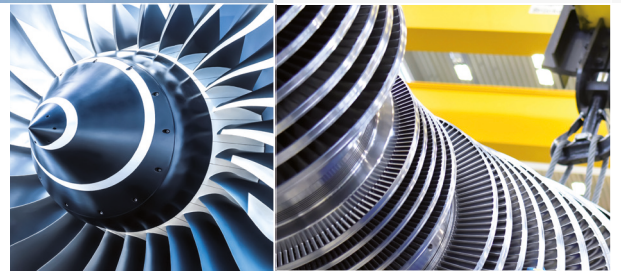
### Manufacturing processes

- Case hardening and carbonitriding
- Various annealing processes
- Short-term gas nitriding
- Vacuum hardening
- Carburizing
- Hardening and tempering





UNLIMITED POSSIBILITIES.  
PROVEN VERSATILITY.



As specialists in machining and high-precision turning we can produce your products to your individual drawings and demands and cover the complete product life cycle. With our flexible production options we supply prototypes, small, medium and high volume requirements.

### World Class Manufacturer

We use state-of-the-art high-precision machining techniques such as grinding techniques with an accuracy of up to 0.0005 mm. We monitor our production processes with modern 3D coordinate, shape and surface measuring machines as well as optical measuring technology. We apply a variety of deburring methods such as bead-blasting, vibratory grinding, high-pressure water deburring as well as thermal and electro-chemical deburring. Burr-free parts to the last detail are our goal.

### Machining Capabilities

Turning	Diameters from 2 mm to 80 mm from bars Diameters up to 1800 mm, chucked Length up to 3000 mm
Indexing	Diameters from 5 mm to 50 mm from bars Diameters up to 100 mm, chucked
CNC milling	Work space 650 x 500 x 650 mm 4 to 5 axes cubic machining
CNC mill and Turn	Up to 1800 mm x 1000 mm Cubic machining 1800 x 1500 x 1000 mm
Finishing	Various grinding techniques Honing and lapping Hard and super fine-turning Outside and inside hard-whirling



## // Proven Diversification

As a leading automotive supplier, we manufacture high-precision parts for:

- Exhaust gas recirculation
- Chassis
- Master brake cylinders
- Hydraulics
- Fuel injection
- Steering systems
- Camshafts
- Turbochargers

In our state-of-the-art clean rooms we produce technologically high-end products that meet the highest surface quality demands, as monitored through high-pressure sensors and injection nozzles.

We are proud of our diverse product portfolio as it is an example of our versatility. As a partner of many renowned companies we have made a name for ourselves worldwide. You will find our products in the following industries:

- Aerospace
- Automotive
- Electronics
- Building Services
- Hydraulics
- Regenerative energies
- Mechanical Engineering
- Power Tools

We are a recognized partner to the machine tool industry and produce machined components, which meet our customers' highest demands.

In the power tool industry our parts are used in impact drills and angle grinders. In building services our turned parts are used in locks, heating and ventilation systems.

**Berger Moves People. Machines. Technology.**



// PRECISION IN PERFECTION  
Berger Group



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