



Berger moves  
People. Machines. Technology.



Design

Turning and milling

Superfinish machining

Heat treatment

Spindle production

Ball screw drives

Assembly and Logistics



## Trust & Partnership



## » Precision in Perfection

For 50 years Berger Holding has lived and breathed this philosophy. Starting out from humble beginnings, our family-owned enterprise succeeded in becoming the worldwide leading manufacturer of precision-machined parts.

As a development partner we produce components with a range of 4 mm to 1800 mm in diameter as well as components in small, medium and bulk series.

### Berger products are installed in products of the following industries

- Mechanical engineering
- Renewable energies
- Hydraulics
- Electronics
- Automotive
- Building services
- Power tools

For decades, renowned customers have relied on our quality and reliability. Here is an extract from our reference list:

- AGCO GmbH
- BorgWarner Turbo Systems
- Caterpillar Inc.
- Continental AG
- Daimler AG
- Deckel Maho Pfronten GmbH
- Delphi Corporation
- Franz Kessler GmbH
- Hörbiger Holding AG
- Hilite International
- Index
- Robert Bosch GmbH
- TRW Automotive GmbH
- Tornos S.A.
- Weiss Spindel-technologie GmbH

You find further information under [www.aberger.com](http://www.aberger.com)



## » Welcome to Berger in Wertach

Set against the backdrop of the impressive Oberallgäu landscape, with its mountains and lakes, our location in Wertach is a special symbiosis between nature and technology. As a specialist for precision-machined components, ball screw drives and assemblies, we offer a special range of products within the Berger group of companies.

On a floorspace of over 10'000 m<sup>2</sup> we manufacture high-tech products for customers world-wide on state-of-the-art turning, milling and grinding centres.

We produce and assemble machine components in the micro-meter range. On request, we also supply them in a modular system.

## Quality to the point

Thorough and ongoing training and development of our staff takes top priority in our company. It forms the basis of our quality philosophy and the success of our products, which have proved of value for years.

This is also reflected by the quality and environment systems established in our company.

- ISO / TS 16949:2002
- DIN EN ISO 9001:2000
- DIN ISO 14001:2005





## Tradition & Innovation



### » Impressive solutions

Soft machining or manufacture of heat-treated parts – we are always the right partner for your requirements. We manufacture highly complex products on our CNC turning, milling and grinding machines with up to 12 axes, and log them on our state-of-the-art 3D-coordinate measuring machines.

We machine a variety of semi-finished products such as saw cuts, casting blanks or semi-finished parts.

Your benefit: Our innovative heat treating facility at our Memmingen location provides one-stop full service to you.

Let us convince you with our competence and versatility.

### Extract from our machine pool

<b>Milling</b>	Gildemeister DMC 210 FD
	Gildemeister DMC 125 FD
	Gildemeister DMC 80 FD
	Gildemeister DMC 125 U
	Gildemeister DMC 60 H
	Heckert CWK 400 D
<b>Turning</b>	Gildemeister GMX 500
	Gildemeister GMX 250/300
	Gildemeister CTX Gamma 2000 TC
	Gildemeister CTV 250
	Index V 160 G
<b>Grinding</b>	Kellenberger Grind Plus
	Voumard 150 CNC
	Kehren RI6-4, Kehren RI8-4



## » Manufacture of large parts up to 1800 mm

No matter how challenging and varied your requirements are, we will realize your concept from the design to the start of production.

### We produce components such as

- Pallet carriers
- Machine tables
- Housing rings
- Planet carriers
- Turbine housings and many more

on our precision multi-axle machining centres, if possible in only one chucking.

## Unique combination of machines

**Turning range** Diameters up to 1800 mm  
Length up to 1000 mm

**Milling range** Cubic parts in dimensions of up to 1800 x 1500 x 1000 mm  
Weight 4000 kg

**Grinding range** Outside and inside cylindrical grinding  
Diameters up to 1000 mm  
Weight up to 1500 kg  
Surface grinding up to 800 x 400 x 500 mm





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## » Ball Screw Drives for every requirement

Now available in new dimensions. Berger precision ball drives are an option when rotatory movements need to be converted into translational movements.

Manufactured in five different precision grades, ball screw drives are available for a variety of applications: From low-cost transport spindles through high-precision pre-loaded systems for all kinds of positioning jobs. Preloading is done in a shift nut via a four-point contact or a two-point contact.

Our ball screw drives are rated and inspected to ISO 3408:2006. Stiffness and idling torque are determined with high-precision gauges which we developed especially for this purpose.

Steady innovations for your success.

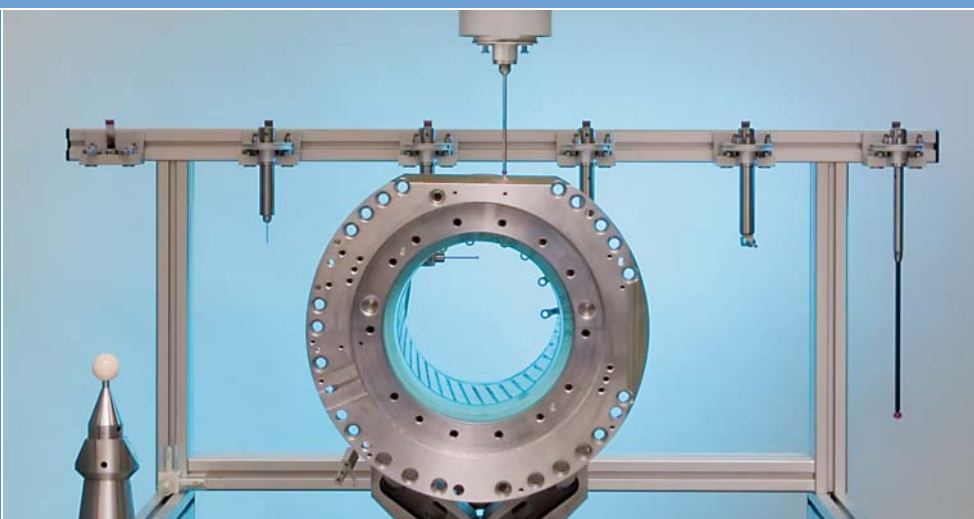
## Range of manufacture

<b>Diameter</b>	from 12 mm to 80 mm
<b>Thread length</b>	up to 3000 mm GK 1 / GK 3
<b>Total length</b>	up to 3000 mm GK 1 / GK 3 up to 3000 mm GK 5 / GK 7
<b>Thread pitch</b>	from 0,3 mm to 63 mm
<b>Thread</b>	single or multiple thread
<b>Type of plant</b>	two-point or four-point plant
<b>Precision classes (PC)</b>	1 - 3 - 5 - 7 - 10 to ISO 3408:2006

## Production methods

- Whirled
- Ground
- Special threads available on request





## » Spindles for every application

As a pioneer in spindle manufacture we have produced high-precision spindles for over 3 decades. More than 50'000 shafts of varying inside and outside geometries are testimony to our success on the market.

Our portfolio includes all types of tool holders for milling spindles from SK through HSK, Bigplus and Capto tool holders.

### We supply the entire process chain

- Machining
- Shrink-on of electric rotor packages
- Grinding of splined hub profiles and splined shafts
- Perfectly fitting joining of gear wheels and spindles

There is no way around Berger spindles.

## Range of manufacture

### Turning

Diameters up to 600 mm  
Length up to 2000 mm

### Grinding

Outside diameters up to 450 mm  
Length up to 3000 mm

Inside diameters up to 600 mm  
Length up to 1400 mm

### Thread grinding

Thread lengths of up to 3000 mm

### Assembly and pressure tests





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