

Gear manufacturing OTT

...integrated
innovations!





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innovations!

Feel free to visit our website
www.ott-gears.com

Gear cutting

We provide gear cutting of the highest quality

With our modern and versatile machinery we manufacture **every type of gear** to suit your demands.

Browse through the product areas listed to view our service portfolio.



Internal gear cutting (gear shaping)

Running gears // Dog clutch // metric and DP

Straight cut and helical gears

Module: max 27
Diameter: max 3000 mm
Face width: max 600 mm

Shafts

Shaft length: max 2800 mm
Shaft diameter: max 400 mm
Face width: max 210 mm

Options: Toothed components with

Work piece assembly height: max 2000 mm
Face width: max 600 mm
Diameter: max 2700 mm



External gear cutting (gear hobbing)

Running gears // Dog clutch // metric and DP

Straight cut, helical and spherical ground gear teeth

Module: max 30
Diameter: max 3400 mm
Face width: max 1400 mm



Shafts / pinions straight cut and helical gears

Module: max 30
Diameter: max 1600 mm
Cutting length: max 5000 mm
Gripping length: max 6500 mm
(longer available on request)



Tooth grinding

Profile grinding beveled and straight

Internal teeth

Module: max 30
Diameter: min / max. 330 / 3800 mm
Swing: max 4000 mm
Face width: max 1000 mm

External teeth

Module: max 30
Diameter: min / max. 350 / 3600 mm
Swing: = max work piece diameter
Face width: max 1300 mm



Gear tooth and coordinate measurement

We have fully air-conditioned measurement facilities in which our quality standards are constantly tested.

If required, our gears can be delivered with a comprehensive test report.

Our gear testing center provides the following data:

Module: min / max. 1 / 32
Face width: max 1200 mm

Work piece diameter

Without brace: max 3500 mm
With brace: max 2000 mm

Grinding belt test

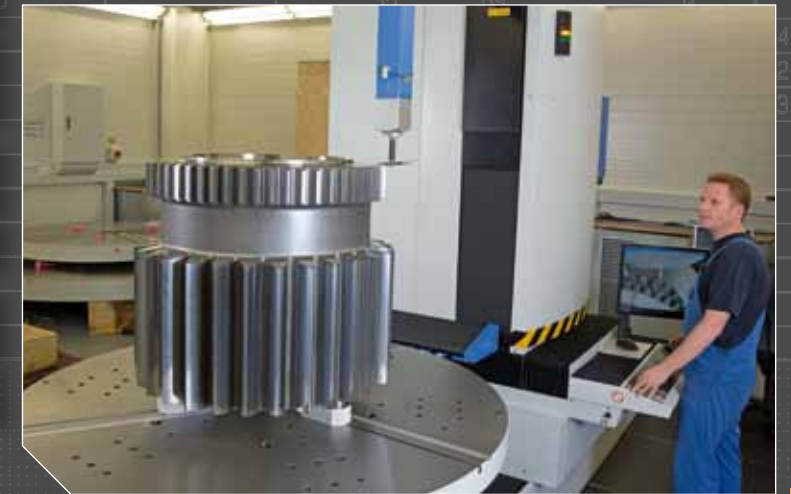
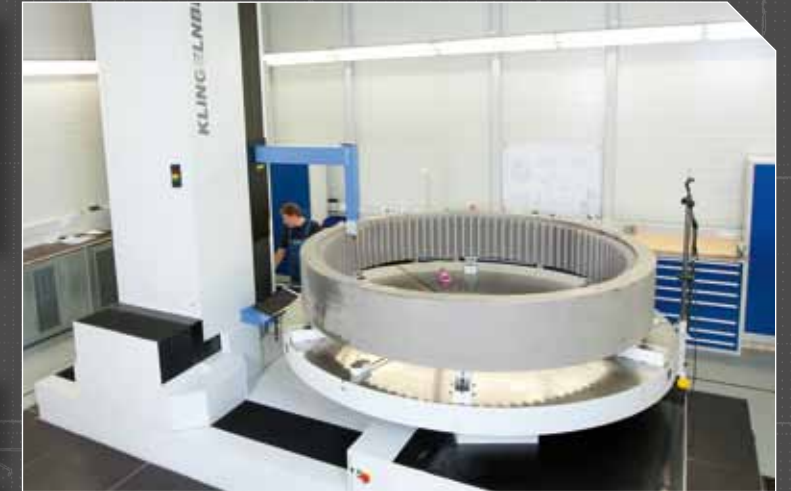
In accordance with the Barkhausen – Rauschen method

Crack testing

With magnetic crack detection facility

Coordinate measuring machine technical data:

Measured displacement X/Y/Z 3.000 x 2.000 x 1.500 mm



Ott worm gears

Patented high-precision worm gears

The OTT worm gear is a patented high-precision worm gear set where the backlash can be set and adjusted. All OTT worm gears are manufactured to the highest quality.

The worm gear is comprised of a pinion gear shaft and ring gear. The backlash is adjusted by turning or moving the pinion gear relative to the ring gear.

Due to the height of the tooth there is a significantly larger contact ratio than with a normal worm gear. This results in greater power transmission with great component accuracy.

The OTT-MATIC is another refinement of the OTT worm gear. The backlash can be adjusted by moving the ring gear axially relative to the pinion gear during rotation.

Ring gear diameter: max. 3300 mm
(larger diameters available on request)
Worm diameter: max approx. 500 mm
Ratio: 2 to 720



Worm gears

Normal, duplex worm gears, custom designs

In addition to the OTT worm gears we also manufacture other worm gear types as listed

Standard worm gears

According to DIN or customer specifications

Duplex worm gears

The Duplex worm gear has two different pitches. The backlash can be adjusted by moving the worm gear axially.

Special design worm gears

With custom designs the tooth height is increased, the pressure angle reduced and the partition of the tooth width between worm and ring gear modified.

Ring gear diameter: max 3300 mm
(larger diameters available on request)
Worm diameter: max approx. 500 mm
Ratio: 2 to 720



Complete and / spare parts manufacturing

Wind turbine gearboxes and industrial gearboxes

Complete manufacturing / prototypes

Simple, rapid and uncomplicated solutions are more important for customers today than ever before.

With this in mind, Zahnradfertigung Ott provides clients with everything from a single source.

We manufacture your geared parts completely, including material procurement, mechanical machining, heat treatment including test certificates etc.

You have no logistical effort and save time and money.



Spare parts delivery / repairs

We manufacture new gear components in **original quality, according to specifications or to samples** incl. inspection records.

We also offer a repair service for worn gear components, which can be used over an even longer term following a mechanical overhaul.

Manufacture of prototype components and spare parts for gear applications in all common wind turbine gearboxes.

- Power output up to 7 MW
- Larger parts on request



Wind energy

Wind turbine gearboxes

Ott was one of the first suppliers of wind turbine gearboxes throughout Europe.

As a result, we have accompanied the entire development of this technology from the very beginning, and through this development have grown to become a highly specialised manufacturer and supplier.

Thanks to most modern machinery, special and optimised manufacturing possibilities and processes, we are capable of manufacturing any component for wind turbine gearboxes in the highest possible quality.

We also manufacture the most challenging designs and constructions in the best quality and according to customer specific requirements.



Company profile

At the foot of the Swabian Alb mountains



50 years of "integrated innovation"

Our company has occupied itself with gearing for 50 years.

Our customers, innovative designers and excellent employees are the engine for our constant growth.

Almost 200 employees today supply the domestic and international markets with OTT gear technology.

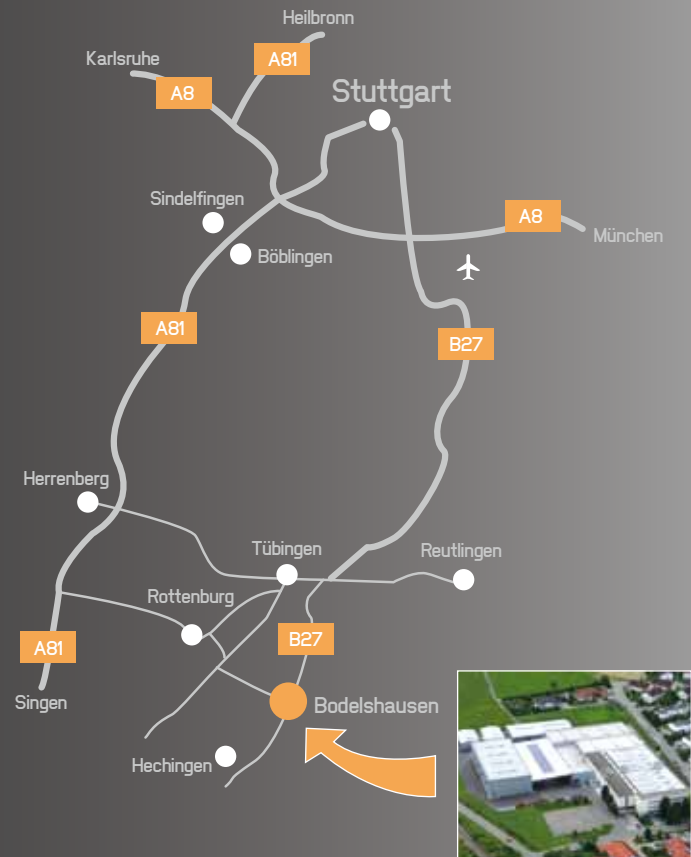
Quality Management ISO 9001



Qualitätsmanagement

Wir sind zertifiziert

Regelmäßige freiwillige
Überwachung nach ISO 9001:2008



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