

Movement with precision

# INDUSTRIAL AND SPECIAL GEARBOXES





# NEW DRIVING FORCE

*“Our mission at ZIMM is to keep raising the bar on the performance and quality of our industrial gearboxes. Find out in what areas we have already reached new levels of precision by looking through our brochure or taking a guided factory tour.”*

**Gunther Zimmermann**  
Owner

# TURNING, TURNING ... EVER ONWARDS

## Schäfer joins ZIMM

**ZIMM has acquired the Schäfer Group, and with it, an additional century and a half of gearbox-building experience.**

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Carl Heinrich Schäfer founded his mechanical engineering company in 1873. Over the next several decades, his German family business achieved new acclaim time and again with the release of numerous innovative gearbox products and the award of patents. The 1931 purchase of Klingelnberg's bevel gear machine No. 7 proved a particularly farsighted decision. In more recent years, the company has specialised in compact industrial and specialist gearboxes – which can now benefit from ZIMM's international sales and service network. In future, our increased vertical integration will enable us to provide you – the customer – with custom solutions and technical consulting at your location.



Managing directors Gunther Zimmermann & Akan Celik



# WHY A ZIMM INDUSTRIAL GEARBOX? FIVE REASONS:

# 1

## Years of experience

- Know-how based on 145 years of experience and more than 300,000 gearboxes in worldwide circulation
- Specialising in gear & engineering systems for over a century
- Every project is subject to our rigorous, high safety standards
- Safe solutions for challenging projects thanks to our rigorous standards

# 2

## Multilevel in-house production

- Design, manufacturing and gear assembly from one source
- Over 90% of production in-house
- Reliable end-product due to a continuous product-design and development process

# 3

## Built for purpose

- Gearbox designed to your specifications and according to your requirements
- Custom dimensions to suit your installation or mounting system
- Extensive drive solutions from a single source

# 4

## Proven and audited quality

- Made in Germany - Made by ZIMM
- Comprehensive test, trial, measurement and inspection systems
- Certified according to ISO 9001:2015

# 5

## Reliable, stable and fast supply

- Capacity and scope for rapid, reliable delivery

# GEARBOXES FROM ZIMM ADDED VALUE FROM ZIMM

**Every ZIMM industrial gearbox is geared for high performance as standard. Our guarantee:**

As a gearbox manufacturer, we understand that the products we design, make, and deliver are essential components within your plant. We take this responsibility to heart: our key values are quality, reliability and smart solutions tailored to your requirements.

We start with high-quality hardened and ground gears. Then we custom build a robust gearbox housing for your specific application. We can also incorporate couplings, brakes, motors, etc. into our integrated solutions – you can rely on ZIMM as a one-stop partner for a complete drive system.

Our specialists can also develop custom solutions for your specialist requirements, space restrictions, etc.

## ZIMM industrial gearboxes

**Hardened, ground toothing**

**Custom corrosion protection and paint coating for the application**

**A range of heating and cooling systems**

**Versatile assembly and installation options**

**Cast or welded housing**

**Immersion, circulating or permanent lubrication**

**Complete drive systems**

**Specialist products for extreme climates**



# APPLICATION AREAS



Compressors



Food and drink industry



Crushing technology



Steelworks



Construction machinery



Wind turbines



**Forming technology**



**Wood and paper processing**



**Mining and conveyor technology**



**Mineral processing plants**



**Satellite dishes and antennae**



**Marine applications**

# **GEARED UP: SPECIAL INDUSTRIAL GEARBOXES ARE ZIMM'S STANDARD**





# A WORLD OF APPLICATIONS

## ZIMM planetary gearboxes

Benefit from the huge versatility of our transmission and phase shifter gearboxes. The broad range of transformation ratios facilitates numerous applications including waste water technology, strand guide gearboxes in slab casting mills, chassis and caterpillar drives, presses, wind turbines, swivel drives in mining excavators, bucket wheel gearboxes for large spoil heap machinery and ladle turrets.

**Nominal torque up to 1.500.000 Nm**

**Steps 1 – 5**

**Weight up to 12.500 kg**

**Milled, ground, or nitrided**

**Modules 1 – 20**

- Compact format combines low power to weight ratio and high torque throughput
- Coaxial design
- Symmetric mass distribution
- Variable torque arm system
- Slewing gear variant available with extended lantern pinion
- Variants with base and dual base

# SINKING OUR TEETH INTO EVERY CHALLENGE

## ZIMM bevel helical gearboxes

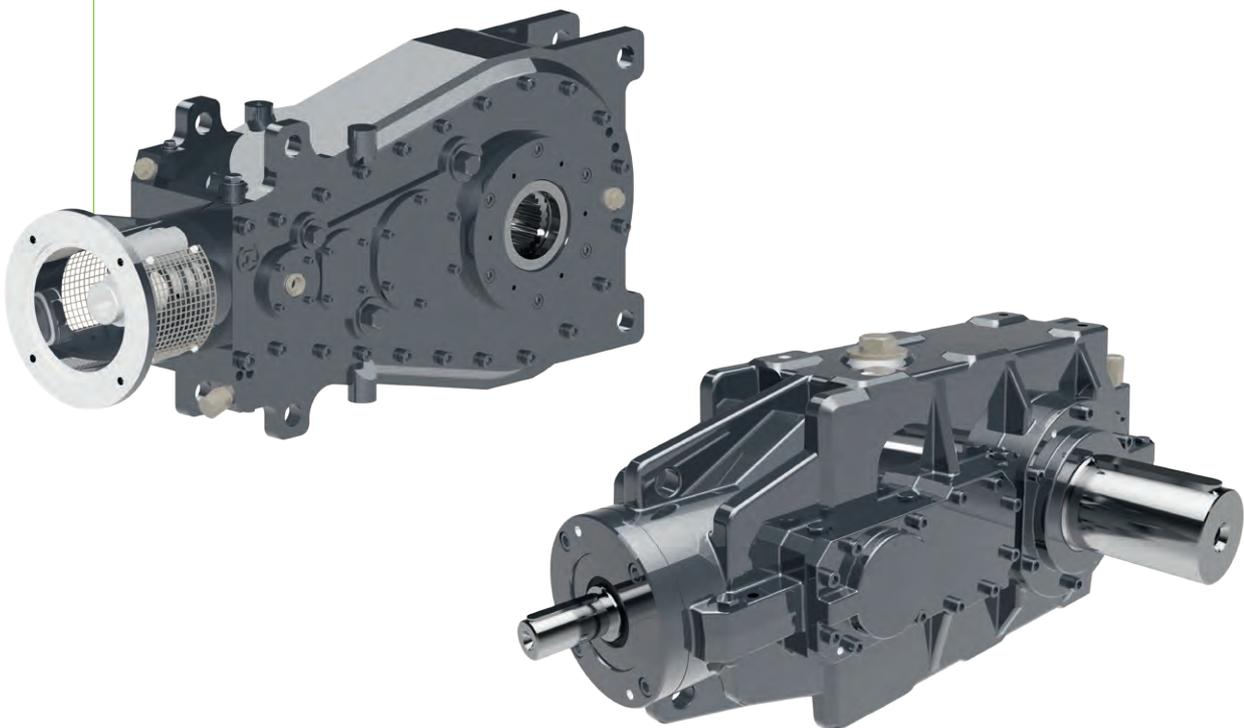
ZIMM's bevel helical gearboxes combine high gear reductions with powerful torques. They're the ideal tool for transferring angular motion and force. You'll find them in vehicle transmissions, conveyor belt drives, crushers in the mining and bulk goods industries, as straightening units in continuous casting lines for heavy industry.

**Nominal torque up to** 170.000 Nm

**Steps** 2 – 5

**Weight up to** 5.000 kg

- Special versions (partially standardised) for heavy industry applications
- Water-cooled designs with ductile cast iron housing available – an economic solution for steelworks
- Separate torque arms
- Individual machine modification (hollow shaft, solid shaft, shrink discs. Splined tothing for installation at customer plants)



# THE SPIRAL OF SUCCESS

## ZIMM spiral-cut bevel gears

Bevel gears are used whenever high torques must be transferred through an angle. ZIMM's spiral-cut bevel gears possess high precision and power density, and operate almost silently, meaning they can be used in almost any sector or application. Your universal tool for machinery and plant engineering.

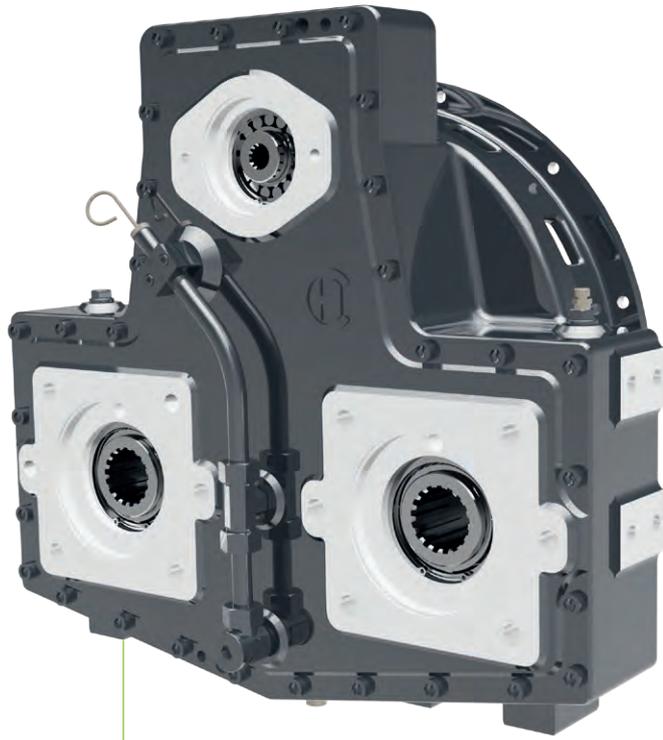
**Nominal torque up to** 18.000 Nm

- Transformation ratios from 1:1 to 1:6
- Solid shaft and hollow shaft versions

**Steps** 1

**Weight up to** 800 kg





# HOW TO MAKE PRESSURE

## ZIMM pump drives

ZIMM's pump drives can bridge multiple pumps and circuits. This allows you to incorporate a variety of transformation ratios and a speed adjustments. Our pump distributor gearboxes can be found in specialist applications such as mining excavators, snow cats, etc.

**Input power** 170 – 780 kW

**Steps** 1

**Weight up to** 800 kg





# PART OF THE SOLUTION

## ZIMM toothed parts cut to customer requirements

At ZIMM, we're so excited to be part of your personalised solution. We can produce hardened, ground toothed parts to match your precise specifications. We are continually investing in our machinery to ensure our products are manufactured using state-of-the-art gearing technology. Quality and customer orientation are equally as important to us in parts production.

### Hardened and ground bevel gearboxes

**Modules to 16**

**Tip circle diameter up to 600 mm**

### Hardened and ground gears

**Modules 3 – 30**

**Tip circle diameter up to 1.000 mm**

**WHEREVER  
YOU FIND ZIMM,  
YOU'LL FIND  
MOBILITY.**





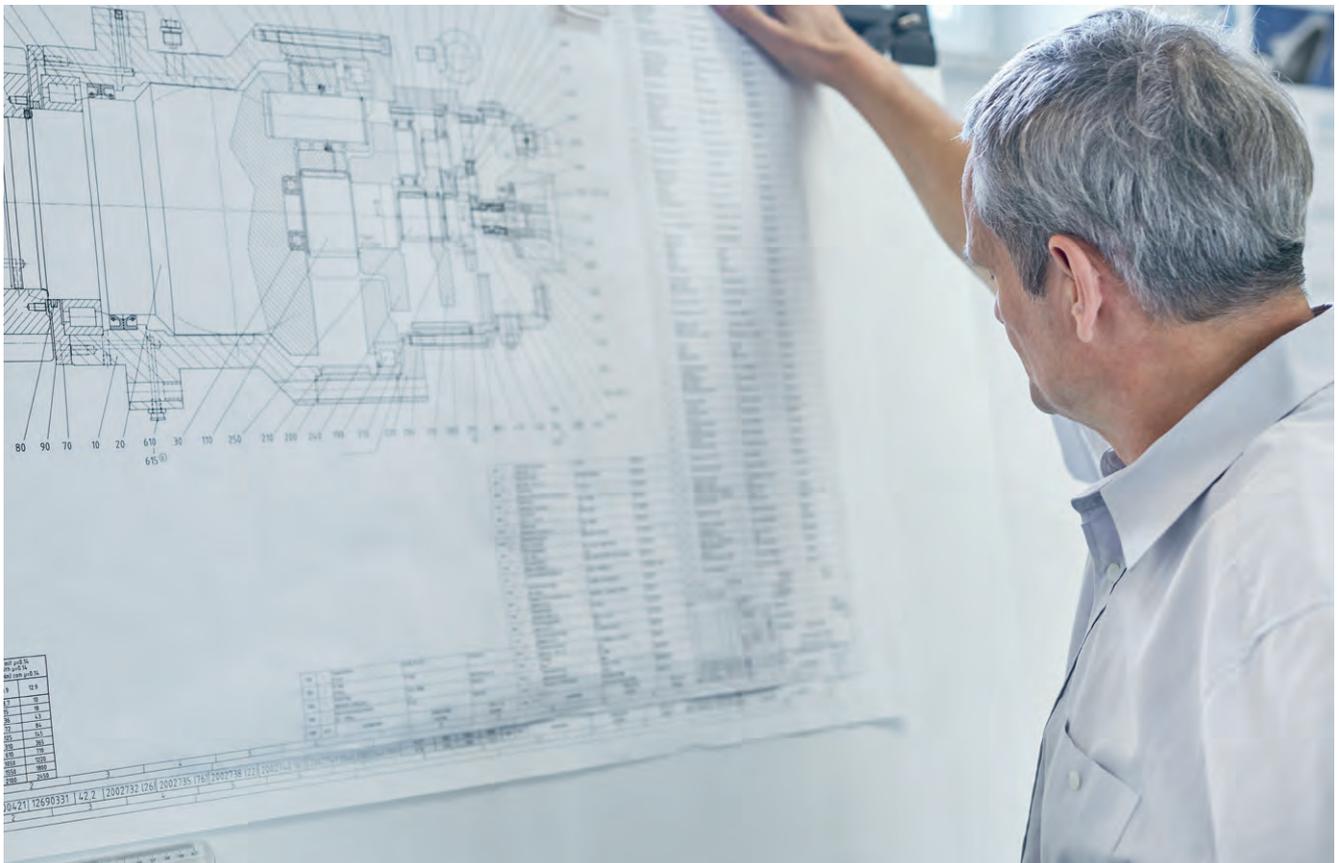
# PARTNER WITH EXPERIENCE AND EXPERTISE

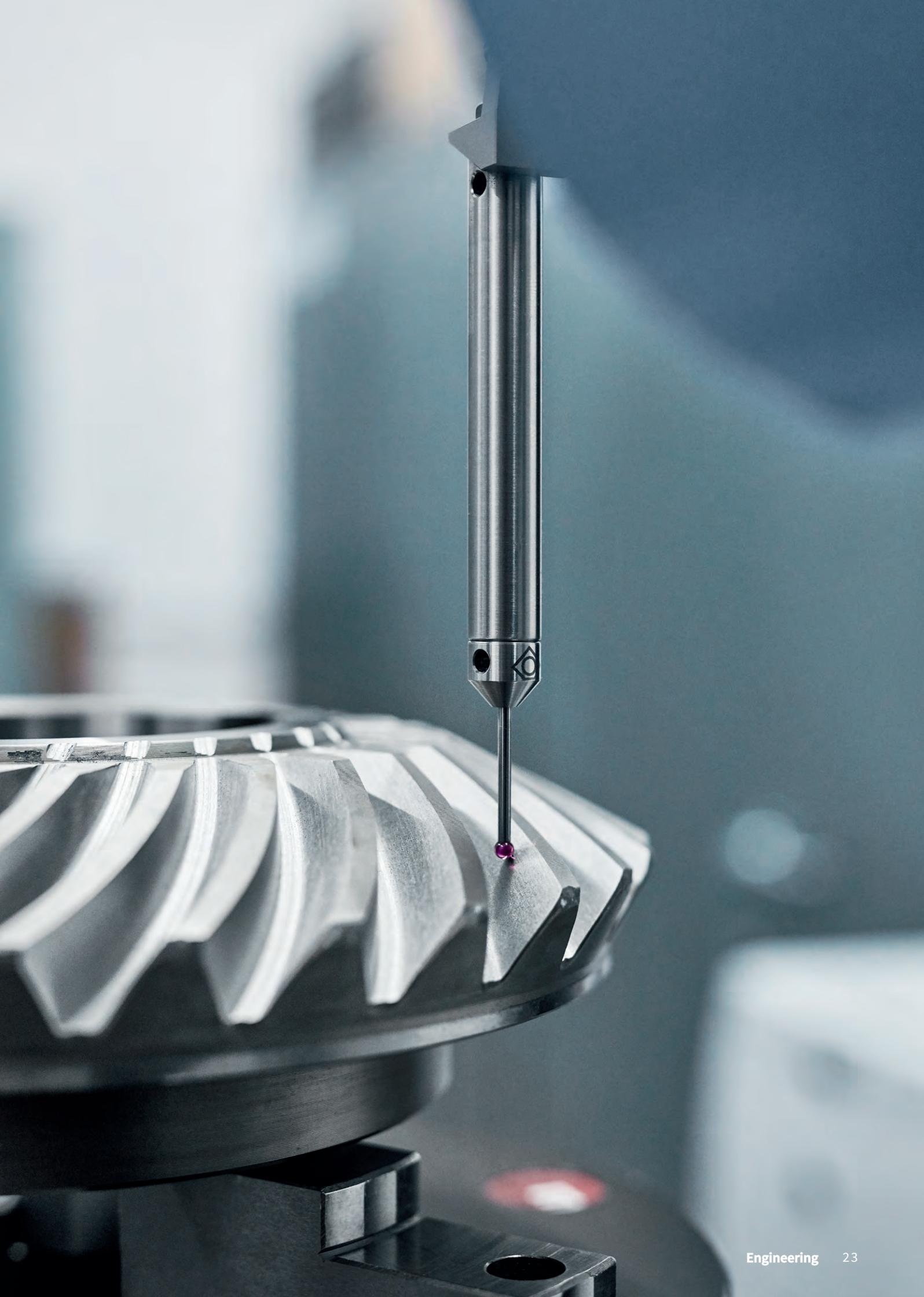
## ZIMM engineering

**Our experienced team of ZIMM engineers carefully examines every detail to solve our customers' problems. We look forward to develop the perfect gearbox for YOUR machine.**

Custom solutions come as standard at ZIMM. After all, there's a tendency for powerful torques, high transmission ratios, demanding installation and environmental conditions, and long service-life requirements tend to amplify the overall challenges.

ZIMM Engineering creates designs on the back of over a century of experience with gear systems. Over 300,000 gearboxes in use all over the world in virtually every sector testify to the expertise we can bring to bear on your requirements, however challenging.







# HIGH TORQUES, COMPACT FORM





# PRODUCTION FACILITIES AND DISTRIBUTION NETWORK



## ZIMM Germany GmbH Ohorn, Germany

Development, production and sales  
of industrial gearboxes



## ZIMM GmbH Lustenau, Austria

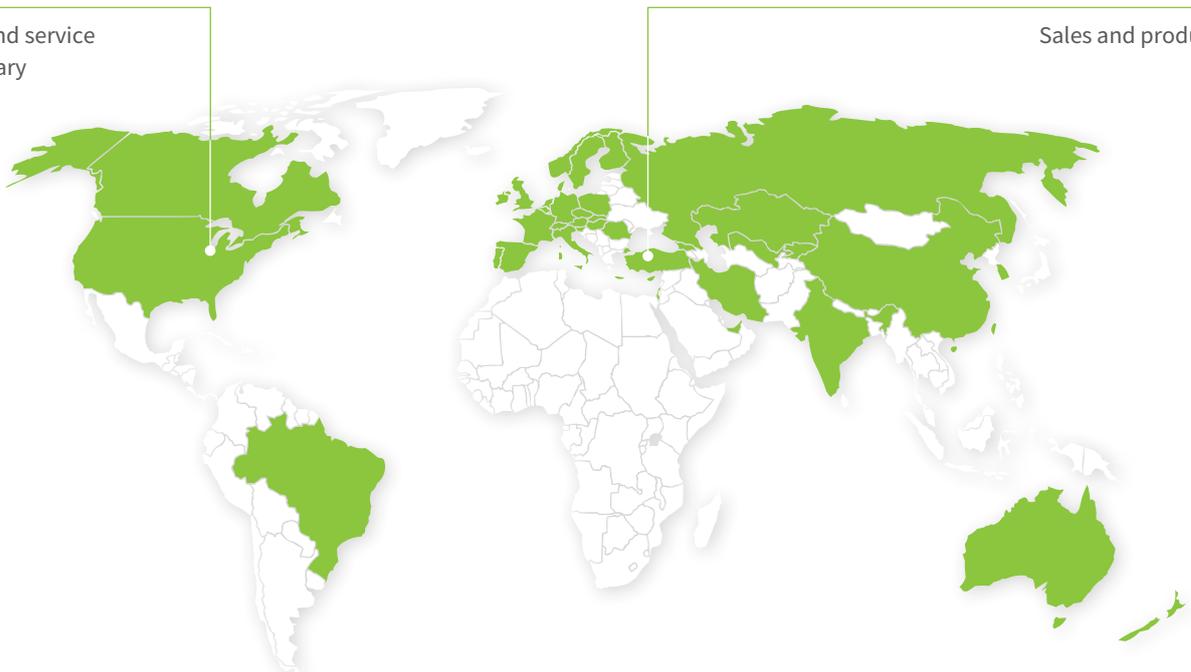
ZIMM Group headquarters  
Development, production and sales of  
screw jack gearboxes

## ZIMM USA Inc. Bloomingdale/Chicago

Sales and service  
subsidiary

## ZIMM Turkey Ankara, Turkey

Sales and production



**YOUR INQUIRY  
IS OUR DRIVE**



**ZIMM Germany GmbH**

Hauptstraße 42, D-01896 Ohorn

T +49 35955 721-0, E [info@zimm.com](mailto:info@zimm.com)