



**GRAESSNER**

**MS-Graessner GmbH & Co. KG**

**THE GEAR COMPANY**

## **Product Overview**

[www.graessner.de](http://www.graessner.de)

## **DYNA GEAR**



### **The high dynamic right angle gearbox**

- Hypoid gear sets
- High input speed at middle and highest torque
- Ratios  $i = 3:1$  up to  $30:1$ , single-stage
- Ratios up to  $150:1$  in two-stages
- Torque up to 1440 Nm
- Flexible motor mounting via coupling and lantern
- Low backlash  $\leq 2$  arcmin
- Variable ratios within one gearbox size

## **DYNA GEAR** *Economy*



### **The cost optimized right angle gearbox**

- Hypoid gear sets
- High input speed at middle torque
- Ratios  $i = 5:1, 8:1, 10:1$  and  $15:1$ , all single-stage
- Torque up to 260 Nm
- Flexible motor mounting via coupling and flange
- Backlash  $\leq 6$  arcmin
- Variable ratios within one gearbox size

## **DESIGN GEAR**



### **The customized special gearbox**

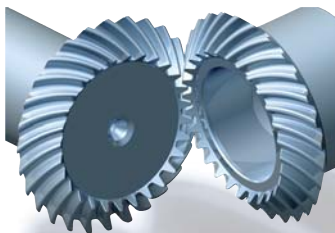
- Single-stage gearboxes available as gear-change and reversing gearbox types
- Forced-circulation oil lubricated gearboxes for high speed and torque
- Labyrinth sealed gearboxes of an efficiency  $> 99\%$
- Special-purpose design gearboxes with additional elements for use as functional units
- Wide range of options available on request



# Gearing precision with performance.

A bevel gear on its own is insignificant. Incorporated into a system, comprising the housing, shafts, flanges and especially the bearing system, the bevel gear can fulfil its task. MS-GRAESSNER is always a step ahead with more than 60 years experience. Either in gear teeth cutting or in gear construction, intelligent solutions for the various branches and applications make MS-GRAESSNER a reliable partner of the industry.

## BEVEL GEAR



### Spiral-, Hypoid and Zerol® Bevel Gears

- Standard range of products and custom-made versions
- Module  $m_s$  from 0.5 to 12
- Diameters up to 410 mm
- Shaft angle from  $10^\circ$  to  $170^\circ$
- More than 60 years of experience
- In-house gearing calculations
- We manufacture to your drawing or advise you of possible alternatives
- Milled or ground gear tooth cutting

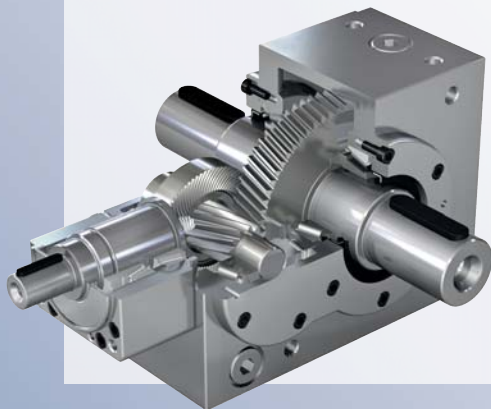
## POWER GEAR



### The high torque distribution gearbox

- Highest torque within small gearbox size
- For highest input speed
- Ratios  $i = 1:1$  up to  $5:1$
- Torque up to 7000 Nm
- Output via solid and hollow shaft
- Motor mounting either directly or via coupling and lantern
- Variable ratios within one gearbox size

## KS TWINGEAR



### The bevel helical gearbox

- Two-stage bevel helical gearbox with ratios of up to 75:1
- Torques up to 7500 Nm
- Torsional backlash  $< 6$  arcmin
- Compact design
- Motor mounting either directly or via coupling and lantern
- High torsional stiffness
- High input speeds at high torques
- Variable ratios within one gearbox size

**DYNA GEAR**

The highly dynamic servo right angle gearbox



**DYNA GEAR** *Economy*

The cost-effective servo right angle gearbox



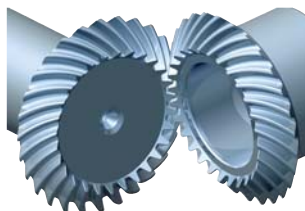
**DESIGN GEAR**

The customised gearbox



**BEVEL GEAR**

Spiral, Hypoid and Zerol Bevel Gears



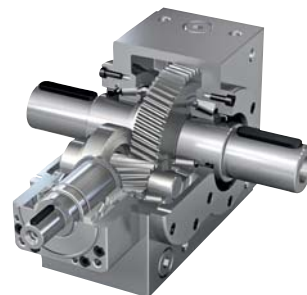
**POWER GEAR**

The high performance bevel gearbox



**KSTWIN GEAR**

The bevel helical gearbox



Germany



**MS-GRAESSNER GmbH & Co. KG**  
 THE GEAR COMPANY  
 Kuchenäcker 11  
 72135 Dettenhausen  
 Phone: +49 (0) 7157 123-0  
 Fax: +49 (0) 7157 123-212  
 E-Mail: mail@graessner.de  
 www.graessner.de

Austria



**GRAESSNER GmbH**  
 Perfektastraße 61  
 Objekt 6/2  
 1230 Wien  
 Phone: +43 (1) 69924 30-0  
 Fax: +43 (1) 69924 30-20  
 E-Mail: graessner@graessner.at  
 www.graessner.at

For more information on MS-GRAESSNER's worldwide distribution network, please visit:  
[www.graessner.de](http://www.graessner.de)