

ŽOLLERN

Solid metals. Fine solutions.

Drive Technology

Jack-up
gearbox



The ZOLLERN Group

ZOLLERN is one of the pioneers in the metal industry. At several locations in Europe, North America and Asia, 2,000 employees develop, produce and service a wide range of high-quality metal products. ZOLLERN supplies sophisticated solutions for a wide range of applications with its business areas of drive technology, investment casting, sand casting and forging as well as steel profiles.

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ZOLLERN jack-up gearbox



The basis for the ZOLLERN jack-up gearbox is the modular ZOLLERN planetary gearbox, which is characterised by a high degree of efficiency and a large power density.

Our modular principle offers a great deal of flexibility in ratios, allowing for economic solutions.

ZOLLERN jack-up gearboxes are designed for use in jack-up platforms (service jack up rigs), jack-up ships (lift boats) and off-shore wind installation vessels (wind mill installation vessels).

They meet the requirements of common classification societies, such as ABS, DNV and others.

Technical designs

Diverse possibilities for designs

1. Drive

- Coaxial drive
- Spur gear drive in U-arrangement

2. Motor

- Hydraulic motor drive
- Electric motor drive

3. Parking brake in fail-safe design

- Hydraulically actuated, spring-loaded, multiple-disc brake
- Electromagnetic brake

Technical data

// Installation sizes and drive torques

Gearbox	Drive torque kNm
Type ZHP 5.36	550
Type ZHP 5.38	950
Type ZHP 5.40	1400

// Gear ratio

From 200 to 4,500

Additional installation sizes and gear ratios are available by request

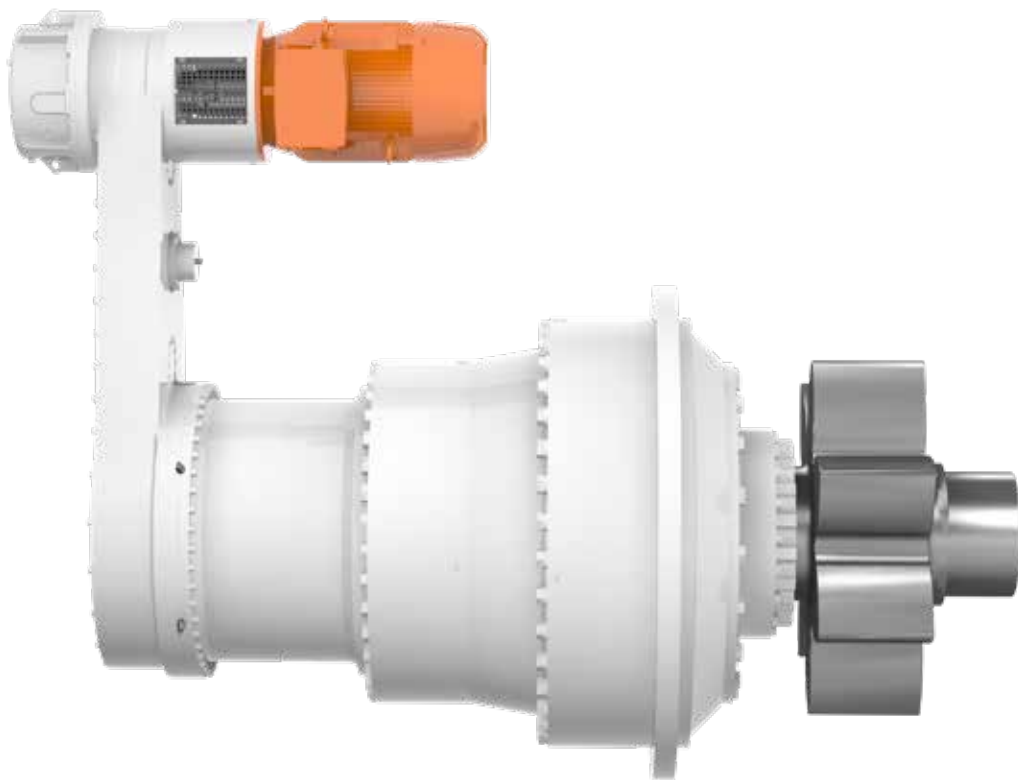
Optional additional equipment

- Torque measurement at the drive
- Operating data and wear monitoring by the ZOLLERN Drive Guard
- Custom-designed output pinion

Co-axial drive



Spur gear input drive





Service and Condition Monitoring

Customer Service

ZOLLERN offers comprehensive service from the first product idea to the after sales service.

- Development partnership
- Technical and application-specific consultation
- Individual order processing, including scheduling agreements
- Comprehensive test run and test equipment (including load test)
- Intensive cooperation with classification societies

After Sales Service

Maintenance and repairs are performed in the ZOLLERN Service Centre. The global service deployments and spare parts deliveries are coordinated from here.

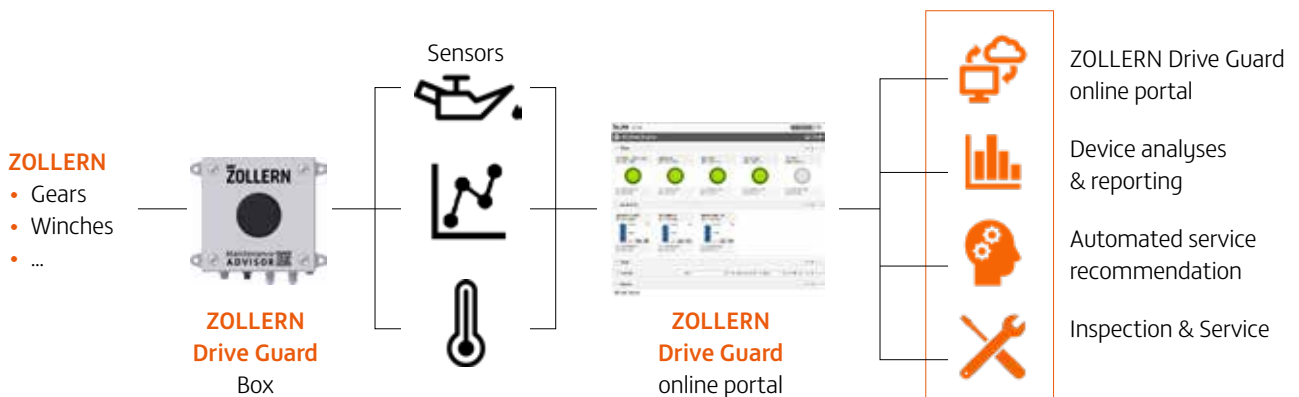
- Commissioning on site
- Quick spare parts deliveries with original spare parts
- Technical findings with repair report
- Error analyses, repairs and assembly work worldwide
- Retrofitting, revision and repair
- Maintenance service
- ZOLLERN training centre
- Diagnostics and condition monitoring
- Service hotline

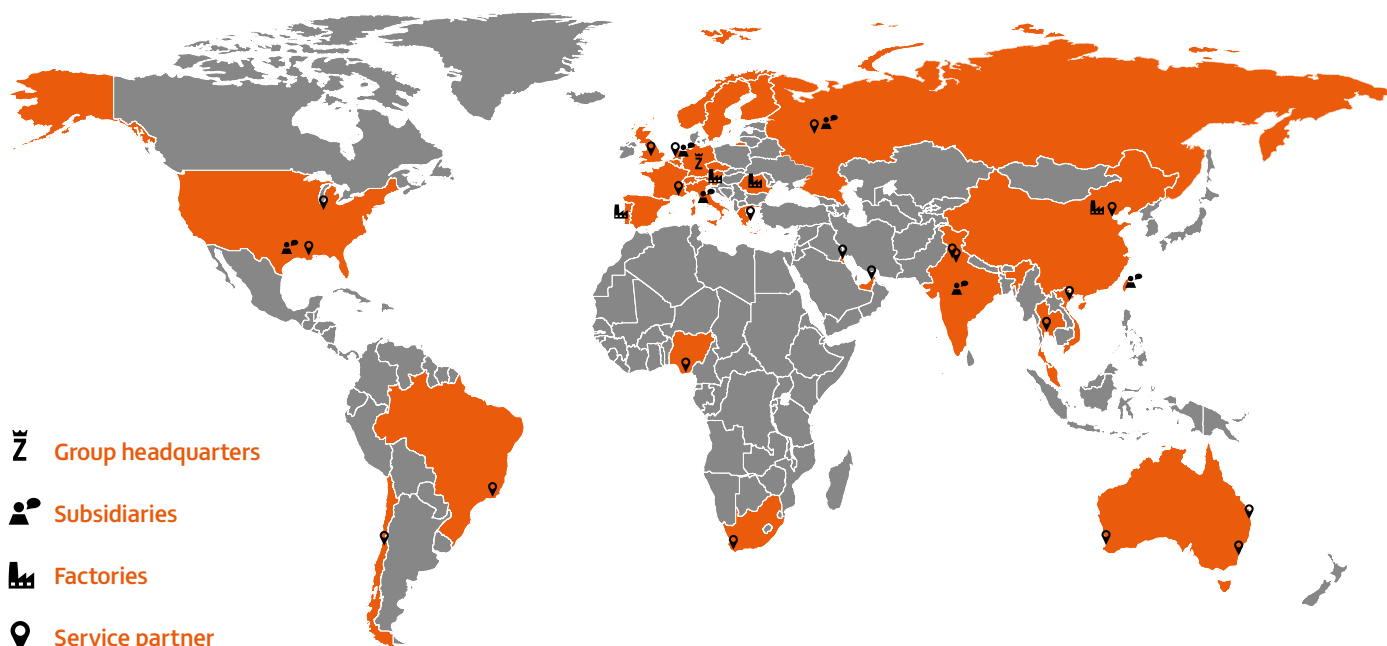
Condition Monitoring ZOLLERN Drive Guard

The ZOLLERN Drive Guard offers the possibility of monitoring the condition and running performance of entire systems as well as individual components from any location around the world by continuously recording specific operating data.

Minimising downtimes, optimally utilising wear components and a predictive planning of maintenance intervals make it possible to achieve a more efficient use of new and existing systems. The ZOLLERN Drive Guard can be used for new and existing systems.

- Condition monitoring
- Service interval planning - Predictive Maintenance
- Gearbox diagnostics, motor diagnostics
- Calculation of remaining service life





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