

# Independent Damage Assessment and Inspection of Industrial Gear Units

## Range of services

- ▷ Loss assessment - on-site trouble shooting
- ▷ Routine gear unit checks
- ▷ Metallographic examination
- ▷ Technical acceptance inspection
- ▷ Monitoring of ongoing repairs
- ▷ Oil analysis
- ▷ Consulting on technical and economical factors
- ▷ Maintenance training

### ▷ **Loss assessment - on-site trouble shooting**

Control of operational parameters and influencing variables on gear unit - on-site primary analysis of cause of damage - identification of components due for replacement - defining further steps of inquiry (e.g. metallographic examination) up to the final damage report

### ▷ **Routine gear unit checks including video endoscopy and vibration measurement**

Gearing - roller bearing - contact pattern - lubrication - oil analysis - operational parameters

### ▷ **Technical acceptance inspection**

Gearing - roller bearing - contact pattern - lubrication - oil analysis - operational parameters

### ▷ **Key consulting areas: technical and economical optimization**

Basic configuration of gear units - optimizing by focusing on operability, maintenance and control - selection of suitable sensor technology for gear units

### ▷ **Maintenance training**

Gear unit technology - damage analysis for gearing, roller bearing and gearbox housing - early detection of defects - technical and economical optimization of gear units - sensor technology for gear units

## Fields of operation

- ▷ Steel industry
- ▷ Rope ways
- ▷ Wind power industry
- ▷ Power plants and turbines
- ▷ Plastics industry
- ▷ Food industry
- ▷ Materials handling technology & drive engineering
- ▷ Paper industry

