



## Optimum Protection of Gearboxes

*through constant oil and vibration monitoring*

**Failure Protection for  
Industrial Gearboxes**

FAG Wear Debris Monitor and the proven FAG condition monitoring solutions provide extensive protection for machines.

- More simple and accurate detection of damage – even to planetary gears
- Early detection of cage damage
- Support in the analysis of problems – also in the form of other services such as engineering services, video endoscopy, lubricant analyses, etc.
- Increased plant availability and overall productivity



## Typical Applications

- **Steel and Aluminium**  
e.g. pinion stand gear units and reduction gears
- **Raw Material Extraction and Processing**  
e.g. mills and rotary kilns
- **Pulp and Paper**  
e.g. drying cylinder gears and wire drive roll gears
- **Wind Power**  
planetary gears
- **Marine**  
e.g. ship propulsions
- **Oil and Gas**  
e.g. top drives and drawworks gearboxes



## Operating Benefits

- **Efficient and early detection of damage**
  - through reliable detection of wear, classified according to material and size
- **More precise localisation of damage**
  - through analysis of the material properties of wear debris particles and frequency-selective vibration analysis
- **More reliable prediction of a machine's condition**
  - by combination of oil particle and vibration measurement data
- **Simple integration of FAG Wear Debris Monitor**
  - also into existing FAG online condition monitoring systems



## Supplementary Schaeffler Services

- Video endoscopy for determining the actual extent of damage
- Professional mounting service for reducing shutdown times
- Component based engineering for increasing the service life and performance of gears

*For further information on FAG condition monitoring products just ask for a copy of our catalogue!*



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