



# The gearbox inspection

When you need a gearbox inspection, call in the experts. We service both FLSmidth and other models of gearbox, bringing the same world-leading knowhow to every inspection and project.

Our gearbox specialists come to you from our service locations around the globe to perform a comprehensive inspection, including full vibration analysis as standard. With more than a century in the field, we bring a depth and breadth of experience that no other service provider can offer.

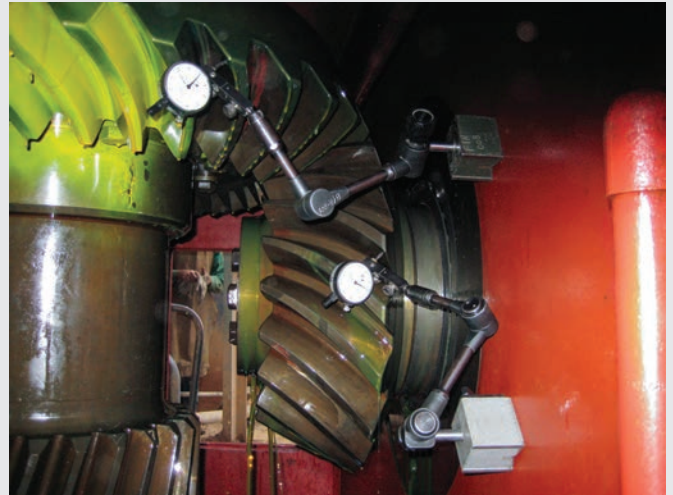
## Benefits

- Access to our gearbox specialists
- Vibration analysis included as standard
- Spread the cost of maintenance
- Reduce the workload and stress of the annual maintenance shutdown by booking 'off season'
- Plan around your scheduled mill shutdowns

# What's included in your gearbox inspection?

We conduct gearbox inspections for all MAAG® gearboxes, including Symetro, WPU, CPU, WPV gearboxes, as well as other non-FLSmidth brands. We gather information prior to our site visit, then spend a day observing the mill in operation. This is when we collect the data for vibration analysis, an insight that helps to inform both maintenance and operational strategy.

On day two, we carry out the standstill inspection. That's it – no prolonged outage, no disruption to your regular operating schedule. After we have left the site, we will compile all our data and observations into a comprehensive report, including any recommendations for maintenance work and performance optimisation.



## Inspection checklist

The specifics of your inspection depend on your gear type, but in general we cover the following elements.

### Inspection during operation

- Vibration measurements are taken and analysed at our gear data analysis centre
- Eccentricity of torsion shaft
- Guide ring movement
- Lubrication oil flow
- Lubrication oil temperature
- Safety system
- Lubrication oil pump/filter function

### Inspection during standstill

- Condition of tooth surfaces and tooth contact
- Condition of bearings
- Condition of guide ring surfaces
- Inclination of torsion shaft
- Check of alignment between motor/gear and gear/mill
- Check of axial setting
- Check of bolts for membranes, bearing housing and foundation
- Lubrication oil quality
- Lubrication oil condition
- Lubrication oil level

**FLSmidth Inc.**  
2040 Avenue C  
Bethlehem, PA 18017

[www.flsmidth.com](http://www.flsmidth.com)

Copyright © 2021 FLSmidth A/S.  
ALL RIGHTS RESERVED. FLSmidth is a (registered) trademark of FLSmidth A/S. This brochure makes no offers, representations or warranties (express or implied), and information and data contained in this brochure are for general reference only and may change at any time.