



# Health insurance for your gear unit

Say goodbye to unexpected shutdowns with MAAG® Predicta, our online condition monitoring service. Predicta continually monitors and analyses gear condition, enabling you to detect the early signs of wear and damage – and act before it becomes a problem.

## Reduced unplanned downtime

Standard gear monitoring solutions measure critical operating conditions, such as bearing temperature, and compare them with the maximum allowable values. Only significant changes are detectable, which is why the earliest indications of damage typically go unnoticed. By the time you realise there's a problem, you usually have just a few weeks – at best – before total breakdown occurs.

Our online condition monitoring service, MAAG Predicta, uses sophisticated data analysis and continuous surveillance to detect defects at an early stage, giving you plenty of time to schedule your maintenance. No more unplanned shutdowns or last-minute panics – you can get strategic with your maintenance planning and save money along the way.

## Achieve the best overall equipment efficiency

Continuous automated and expert-led analysis of in-depth data gives you a clear picture of the condition of your gear unit. By planning your maintenance activities in advance, you not only avoid equipment failure and the high cost of unexpected downtime – you can also make the most of every shutdown, generating further efficiencies.

Online condition monitoring services also help you to improve production. Drawing a correlation between operating parameters and grinding data helps you to better understand your process and improve the efficiency of your entire mill system.

# Online condition monitoring services

Data without insight doesn't help anyone. Our condition monitoring services give you the best of both – in-depth data and expert analysis. The result? A predictive maintenance strategy that eliminates the risk of unplanned downtime.

## How it works

Our online condition monitoring services support your maintenance team in all aspects of gear unit maintenance.

- The condition monitoring service, MAAG® Predicta, uses sturdy and precise sensors to gather all relevant operating data from the gear unit.
- The onboard data processing module is compact and fast, designed for simultaneous and synchronous data acquisition on all signal inputs.
- Accompanying analysis software with customizable user interface enables both remote and local monitoring.
- Expert analysis and guidance help you formulate a predictive maintenance strategy and avoid unexpected downtime.

## Easy connection to FLSmidth Cloud solution

The onboard data processing unit includes a data-bus connection so that you can collect all the relevant data to control your grinding process directly from the source. The system also comes with our cloud solution, where the recorded data are stored and further processed. We use Fast Fourier Transformation, envelop curves, spectrum cascades and many more in-depth analyses to detect even the smallest signs of damage to your gear unit.

In case a problem is noted, the system will send an alert to you and to our remote service center. Here, our experts analyse the stored data and propose an action plan in consultation with plant operators to prevent any unexpected shutdowns.

## What we offer

Whatever the size of your gear unit, the modularity of our condition monitoring service enables us to offer customized solutions for you. The sensors and onboard data processing module are included in the service, together with the wiring between those elements. For new or complete replacement gear units we install, test and commission the condition monitoring system together with the gear unit in our workshop. In case of retrofits, we install the sensors and data processing module on site and also carry out the commissioning.

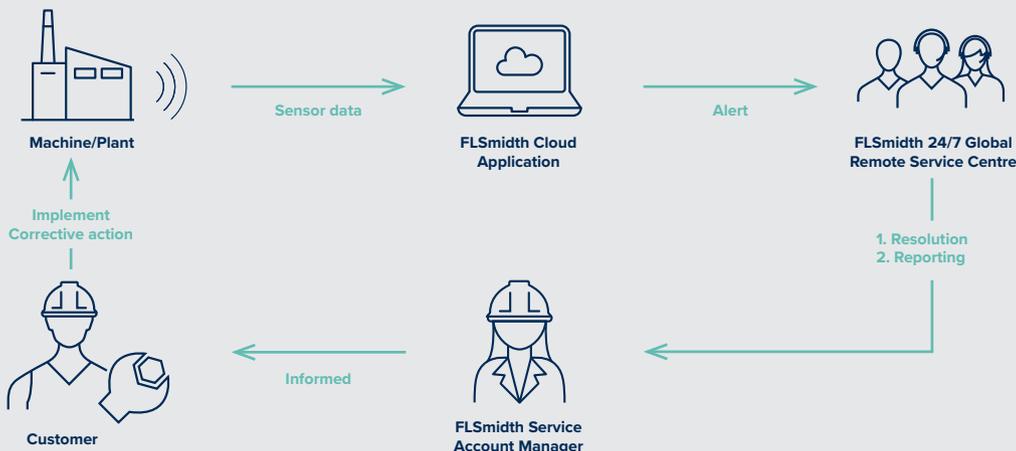
Data collection, analysis and storage is all secured in our private cloud. Our team of experts continuously supervises your gear unit and informs you of significant changes and possible problems. We'll also provide periodic expert reports to give you an update on the condition of your gear unit and offer maintenance recommendations.

To summarize, the condition monitoring service includes:

- Supply of ready-to-use system
- Onsite installation and commissioning for retrofits
- Training on hardware and software
- Remote surveillance service
- Periodic expert reports and customer support



## Online condition monitoring Optimise uptime and reduce costs



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