MAAG® GEAR
GEAR SYSTEMS

Predicta and mySentinel
Predictive maintenance designed to your needs
Reach top OEE level with our IoT and full service package

Enjoy predictive maintenance option designed to suit your budget and needs with a range of condition monitoring solutions in combination with Predicta modules and mySentinel packages.

Key benefits

- Know the condition of your entire gear unit
- Continuous on-line condition monitoring
- Enhanced process control to protect your equipment
- Reach highest overall equipment effectiveness
- Adaptable to your budget and needs
Get your IoT solution with MAAG® Predicta

Benefit from a sophisticated condition monitoring solution that helps you to detect damage in good time and thus make any work that may occur predictable.

We offer in collaboration with industry leaders an elaborated system able to support your maintenance team in all belongings in regard of gear unit maintenance. The complete system contains sturdy and precise sensors for temperature, acceleration and torque recordings who are implemented in the gear unit. The on-bord data processing module is one of the most compact and fastest, designed for parallel and synchronous data acquisition with a sampling rate of 130kHz on all channels and analysing software with customizable user interface for remote or local monitoring purposes.

Independently from the size of your gear unit, the modularity of the system allows us to offer customized solutions for the size or the quantity of your gear units that must be monitored:

- Predicta Compact designed for small gear units containing up to 6 acceleration and 8 temperature channels
- Predicta Complete with 16 acceleration and 12 temperature channels
- Predicta Plus with up to 22 and 26 channels for acceleration and temperature recordings

Remote monitoring and system access

The offered system comes with a cloud solution, where recorded data gets processed and stored in the cloud. In case of an event, the system will give an alert to you and our backoffice. Our experts will analyse the stored data and initiate in consultation with the plant operators required actions to execute whatever it requires to prevent an unexpected shut down.

Remote system access can also be beneficial within a group of companies and plants. If one production facility is facing problems, colleagues from a different site can look at the data and share expertise.

Our offerings:

- Supply of ready to use system
- Installation and commissioning
- Trainings on hardware and software
- Remote surveillance service
- Reporting and customer support

Predicta – Basic process diagram

![Predicta Basic Process Diagram](image-url)
MAAG® mySentinel and Predicta

Combining the state-of-the-art condition monitoring system with an extraordinary customer service ensure productivity in the future. Benefit from top-class measuring and analysing equipment together with years of experience.

Choose Predicta and gain benefits
Each of the Predicta solutions offers you

- Continuous on-line condition monitoring
- Analysis of condition monitoring results
- Continuous storing of data
- Alert indication
- Predictable events

Process control protect your equipment
Thanks to the extraordinary capabilities of the modules who are equipped with digital outputs and communication ports, M2M solutions through MQTT protocols are feasible and can be used to control process or simpler to protect your gear unit from overloads.

In collaboration with our experts customized process control actions based on motor torque or vibration levels can be achieved to prevent occurrences which can harm your equipment.

Highest availability with MAAG mySentinel
Adapting to meet our customers’ needs and market requirements, the introduction of mySentinel is not only to provide a Condition Monitoring System out of our Predicta modules, but to ensure to our customers to reach highest OEE levels with our full-service packages. mySentinel is a selection of service packages offered by FLSmidth MAAG® GEAR SYSTEMS which are adaptable to your application and to your needs.

Based on 5 basic questions best service option can be selected to best cover service needs of your equipment:
- Is the equipment process critical and leads a break down to production losses?
- Is the equipment capex relevant?
- Is the equipment easy to replace?
- Does the equipment requires high maintenance knowledge?
- Is the equipment a long lead item?

Our experts can help you to find which mySentinel module matches best your needs to get highest availability of your production.
Gain following benefits

- Get assistance in deciding on necessary maintenance activities and their order of priority
- Get assistance in performing planned maintenance activities
- Achieve highest availability of your equipment
Precision is a question of quality

Our products are known for their high reliability. Manufactured in state-of-the-art production plants, enriched with many years of experience, supported by a wide range of services.

Quality policy

Our certification according to the latest ISO 9001:2008 standards and our commitment to create strong relationships with our customers, suppliers and employees has the clear target to establish us as a trustworthy, reliable and professional partner. This commitment includes providing the markets with high quality and high value solutions, products and services to support productivity and sustainability of our customer.

With our process management system, we endeavor to meet and exceed quality standards and provide adequate resources to support the quality system.

Our quality policy centers on the importance of meeting our customers’ requirements. To reach that our management continuously reviews and establishes the quality objectives and our employees are committed to the company’s Management System, as well to the continual improvement of the system and the entire organization. Each employee is aware of the vision and strategy we pursue and works in a culture of opportunity.

With our suppliers and external partners, we cultivate an open communication and collaborate on performance-oriented results.
A pioneer of modern gear technology

For more than 100 years, the MAAG® Gear brand has successfully lived up to its founding vision and values.

As part of the global FLSmidth Group, the business continues to be the preferred full-service provider for the heavy-duty industry. As leading technical developer of drive solutions for the cement and minerals industries we remain focused on our customers’ productivity.

Engineering and production
Since introducing with great success in 1966 the technology of mill gear units to the cement industry we have sold over 6000 MAAG™ gear units and 1000 girth gears. In today’s setup, Engineering and Production take place in 4 modern plants located in Italy, Switzerland, Poland and India.

Our strength
We support our customer’s expectations with highly efficient products. The key of success lies in the combination of modularized solutions and compact design. Careful material selection and unique production accuracy enables our gear units to increase customers’ sustainability. The continuous incorporation of experience, new technical solutions and latest manufacturing techniques into the production process combined with intensive development and training of our engineers assure best understanding of how to design and operate a gear unit to lengthen its life cycle. A constant willingness to innovate and close collaborations with our customers have led to ensure that MAAG gear units operate reliably throughout the world under toughest conditions.

Product range
Today’s product range includes various drive solutions and maintenance systems for all types of applications needed in various industries. We also manufacture single components such as bevel sets, girth gears and various replacement parts.

All MAAG gear units are available as standard solutions or customized to its specific application.