



PREMAS® 4.0 for Chain Bucket Elevators

Secure uninterrupted conveying under extreme conditions. Rely on predictive maintenance.

The PREMAS® 4.0 chain edition is specially developed for chain bucket elevators

Reactive maintenance leads to unplanned stops, high costs and reduced production. This can be avoided – with PREMAS® 4.0. The solution enables the early detection of wear and aging of important machine components at your chain bucket elevator.

The latest sensor technologies are combined with data acquisition and analysis to provide complete online condition monitoring your chain bucket elevator. PREMAS® 4.0 keeps you informed about the condition of the machine in real-time, provides a prediction of the estimated service life of critical machine components and thus enables you to plan ahead, act in time, and prevent possible problems. Furthermore, you will find contact details for expert assistance and remote support when you need it. PREMAS® 4.0 can be applied to all types of chain bucket elevators.

Go to maximum capacity with additional safety and knowledge about the condition of your machines.

Which indicators support your proactive, predictive maintenance strategy?

PREMAS® 4.0 gives you an overview about the most important indicators to show the condition of your chain bucket elevator anytime:

- ✓ Machine KPIs: Chain Lifetime, Chain Condition, Chain Stress
- ✓ Last 30 days machine performance
- ✓ Current values of main variables: Chain Elongation, Motor Current, Temperature Boot & Head
- ✓ Detailed Trend Curves
- ✓ Machine Overview



It keeps an eye on your machine, esp. when **visible inspection is difficult or impossible**

- Critical bucket elevators running 24/7
- Remote locations
- Travel restrictions



It helps you to plan ahead and secure **the timely availability of your spare parts & inspection**

- Consider longer delivery times of remote areas
- Early initiation of order process

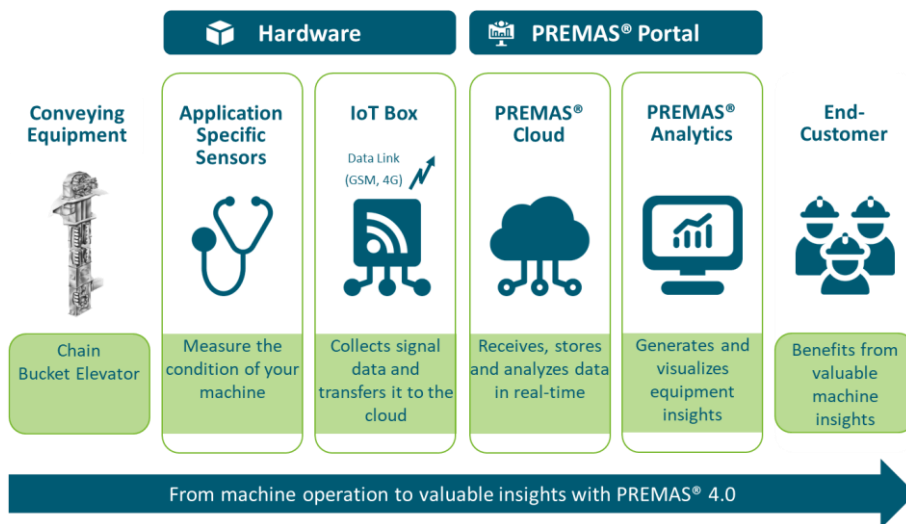


It supports you to **reduce maintenance costs and increase machine reliability**

- 24/7 knowledge about the condition of your machine
- Contact remote support when you need it

How PREMAS® 4.0 reveals machine insights of your chain bucket elevators to your fingertips.

Our Predictive Maintenance Solution is specially made for conveying equipment in the heavy industry such as chain bucket elevators. Every machine receives a hardware package. Provided field sensors as well as some existing signals from the plant control system (motor current, level switch & speed switch) will be connected to the IoT Box, which sends the collected data through mobile connectivity to the PREMAS® Cloud. There, the data will be analyzed based on the latest technologies for predictive analytics (e.g. algorithms, machine learning ...). The PREMAS® Portal visualizes and provides all relevant data for a complete online condition monitoring, securely online accessible to authorized users 24/7 through any mobile or desktop device.



Start monitoring, achieve peace of mind! Detect vulnerabilities before your operation is affected.

Reap the benefits of a proactive and predictive maintenance strategy:

- Optimized equipment availability and stoppages: PREMAS® Analytics
- Knowledge about the condition of your machine, anytime, 24/7: Online Condition Monitoring
- Reduced maintenance costs, OPEX: PREMAS® Analytics
- Increased machine reliability at high level of production: Online Condition Monitoring
- Prevention of critical failures, degreasing costs for collapse failure: PREMAS® Analytics
- Early and better planning of inspections and maintenance: Anomaly detection
- Optimized planning for spare parts stocking and reduced inventory costs: PREMAS® Analytics
- Improved remote support: PREMAS® Support



All-in-one: the plug & play package for your machine:

- ✓ Sensors
- ✓ IoT Box
- ✓ Mounting Kit
- ✓ Installation Instruction
- ✓ Operation Manual
- ✓ PREMAS® Portal & Analytics

Besides the provided field sensors, existing signals from the plant control system are required: motor current, level switch and speed switch.

Plug & play: Simply install the box, connect it to the signals, log-in to the PREMAS® Portal and concentrate on your operation.



Keep track of the condition of all machines – securely accessible anywhere, 24/7 including:

- ✓ Monitoring Dashboard
- ✓ Predictive Analytics
- ✓ Anomaly detection
- ✓ Notifications

You define who sees your data and manage the access to your portal.

Want to know more? Contact us.
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