

Customer Success Story

Wood Processing Industry

Norra Timber sawmill in Kåge, Sweden

Sawing without unwanted interruptions
SmartChecks ensure wood processing in Sweden

Customer

The Norra Timber sawmill in Kåge is one of the largest wood processing companies in Northern Sweden. Approximately 240,000 m³ of wood are processed into sawn timber every year and shipped to customers all over the world.

Challenge for Schaeffler

Running motors in the Norra Timber sawmill are a fundamental requirement for the smooth production of sawn timber. During this process, the bearings in the motors are subject to particular stress. When the main motor failed, the plant was brought to a standstill, and it took several hours before operations could resume. A failure of this kind can impact on the entire supply chain. In order to avoid such incidents in future, the sawmill operator sought a proactive solution.

Schaeffler Solution

Schaeffler experts on site recommended the use of the SmartCheck for motor monitoring. The SmartCheck is an online measuring system for monitoring machinery and process parameters. This maintenance solution enables early alarm triggering and visualization of potential damage, thus allowing maintenance work to be planned on a specific and proactive basis.



Information on the Kåge sawmill

Annual production volume

approx. 240.000 m³ of sawn timber

Raw material

approx. 50% redwood, 50% whitewood

Sawing lines

1

Employees

81



Sawmill control center



Commissioning of the SmartCheck on the main motor



Schaeffler SmartCheck in action

Customer Benefit

The online monitoring solution is an important tool for the customer, in order to largely prevent unplanned downtime and malfunctions in continuous operation. In addition, the customer benefits from the following advantages:

- no costs incurred by production stoppages
- low system acquisition costs
- reduced maintenance costs
- increased plant availability
- greater security due to self-reporting system

Mikael Eriksson, operator of the Kåge sawmill, is delighted.

Thanks to the SmartCheck, unexpected motor failures are almost entirely prevented. We can now see immediately if something is not right, such as unusual temperature increases or significantly changed vibrations for example, and can intervene before major problems arise.

As a result, downtime costs of approx. EUR 20,000, as incurred in the most recent incident, are a thing of the past.

What's special

Schaeffler Schaeffler has been supplying roller bearings to the Norra Timber plant through local Schaeffler sales partner Sesemic for years. By using the Schaeffler condition monitoring solution, the sawmill operator is once again placing its trust in Schaeffler's expertise.

This maintenance solution can also be applied and expanded to other units such as fans, pumps, gearboxes, compressors, and machine tools in practically every plant across all sectors.

Contact

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Technical information on the solution

Monitoring system

8 SmartChecks

Monitored units

Motors

Monitored operating parameters

Vibration, temperature, and speed

Diagnostic procedures

Velocity, acceleration, and envelope

Status display

Connection to the Schaeffler network and locally available visualization in the control room

These customer testimonials may also be of interest



Costs saved

Automatic lubricators and the change to quality grease Arcanol MULTITOP prevent failures of the wide belt grinding machine



100 percent customer satisfaction

The drinking water supplier Perlenbach relies on Schaeffler solutions for the maintenance of its pumps



The Schaeffler SmartCheck has received the IEN Europe Award for highly innovative product. The award was presented by Industrie-Magazin. IEN Europe has been providing information about new products and solutions for the industry for more than 30 years.