Press release

LHProcessMonitoring and LHFingerprint now even better

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**Tools for inline process monitoring and condition monitoring**

**The LHProcessMonitoring software monitors and visualizes the manufacturing process. Initially designed for generating grinding and dressing, it now also supports profile grinding and gear skiving. The “digital fingerprint” for machine monitoring was previously available as part of a maintenance contract. Now customers can perform the measurements themselves using the LHFingerprint software.**

The earlier deviations in the microgeometry of the tooth flanks are detected, the more effectively subsequent noise emissions can be prevented. LHProcessMonitoring allows you to identify and correct the causes at an early stage. The software visualizes and analyzes process parameters such as torque, axis position, and power, generates dynamic envelopes based on training data, and automatically detects limit violations – before faulty components reach the end-of-line inspection.

**LHProcessMonitoring optimizes and expands**

The software has now been enhanced with new display options and optimized user guidance, and expanded to include profile grinding and gear skiving. With a new tool, RecordViewer, recorded process data can be visualized and used for data-based production optimization. Originally developed exclusively for our own Development and Technology department, RecordViewer is now also available to customers offline as a desktop version. “This allows us to meet the needs of many customers who want to build up their own analytical expertise,” explains Florian Schuon.

**LHFingerprint facilitates machine diagnostics**

An unplanned machine standstill due to a component failure is the worst case scenario for users. Deviations from the machine condition upon delivery are now even easier for customers to identify. The LHFingerprint software has been further developed so that customers can now capture fingerprint data themselves and repeat the recording as often as they wish. These records can also be viewed and analyzed offline in the new RecordViewer, which underlines the consistency of the Liebherr tool chain.

**Recognizing impending standstills in good time**

This enables proactive action to be taken during ongoing operations, allowing impending standstills to be identified and avoided at an early stage. Previously, this function was only available as part of a maintenance contract and is now included as a product feature in Condition Monitoring for Liebherr machines.

**Three questions for** Florian Schuon, Head of Digital Solutions at Liebherr-Verzahntechnik GmbH

**What motivates you personally when developing digital solutions?**

It is important to me to offer our customers solutions that meet their specific requirements. Since these cannot always be covered by a standard product, we rely on a modular system. This allows customers to customize their digital solution – an approach that we will continue to pursue consistently in the future.

**How do you plan to further develop your digital products?**

We are working to further increase the value of the data collected for our customers through targeted analysis, smart algorithms and the use of machine learning. Our goal is to automatically provide meaningful information to facilitate decision-making.

**How do you help your customers get started?**

We meet our customers at their level – with scalable, end-to-end solutions. We take IT security seriously. At the same time, we are seeing a steady increase in openness towards data-driven processes. We support our customers in harnessing this potential safely and efficiently.

Photos

Ein Bild, das Text, Software, Webseite, Website enthält.

KI-generierte Inhalte können fehlerhaft sein.

Screenshot LHProcessmonitoring englisch

LHProcessMonitoring displayed on a Liebherr gear cutting machine.

All workpieces can be analyzed individually during the process.

Ein Bild, das Diagramm, Reihe, Screenshot enthält.

KI-generierte Inhalte können fehlerhaft sein.

ProcessRecordViewer-EN

With the ProcessRecordViewer desktop application, all recorded signals can be analyzed in detail, compared and all process parameters

comprehensively evaluated.

Ein Bild, das Person, Kleidung, Menschliches Gesicht, Wand enthält.

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Mitarbeiterinterview\_Florian\_Schuon\_11  
  
  
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