Press release

LHEnergyInfo: Quantifying sustainability

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**Monitoring the energy consumption of machines and workpieces**

The new LHEnergyInfo app from Liebherr-Verzahntechnik GmbH measures and displays energy consumption in production in detail and in real time. As an integral part of the LHWebPlatform, it marks another step forward in the company's digitalization strategy.

Sustainable production is becoming increasingly important in machining. LHEnergyInfo evaluates energy consumption data in production in a targeted manner – clearly presented and accessible at any time in the LHWebPlatform. Electricity, compressed air, and cooling lubricant consumption is recorded per machine, per shift, per day, and even per workpiece.

Transparent energy consumption

“Sustainability is firmly anchored in our corporate strategy. With LHEnergyInfo, we provide our customers with complete transparency about all energy consumption – including previously overlooked secondary consumption, such as standby mode or when the control voltage is active overnight,” explains Florian Schuon, Head of Digital Solutions. The app highlights individual process parameters and pinpoints potential savings.

Data for each individual workpiece

LHEnergyInfo is unique in that it can break down energy consumption for individual workpieces. The app helps companies provide CO₂ equivalent certification for their products, such as components like gears within complex assemblies.

Cost efficiency and sustainability

In addition to detailed evaluations, a heat map provides a quick and intuitive overview of energy flows and peak loads. This allows specific starting points for optimizing processes and reducing energy costs to be identified. In addition, the system supports compliance with legal requirements and may even be eligible for funding under Industry 5.0 initiatives.

Transparency for machines and processes:

LHWebplatform

Modular platform

* Various data profiles: Basic, Production, Process, LHGT Data Extension
* Interfaces and protocols: OPC UA, MT Connect, MQTT or umati
* Apps: LHMachineInfo, LHSignalInfo, LHReportInfo, LHEnergyInfo

Overview of the apps

LHMachineInfo

Monitoring the live status of the machine

* Detailed information about each machine in the dashboard
* Observe changes in real time
* Create your own signal definitions with the Logic Editor

LHSignalInfo

Visualizing the machine data

* Graphical visualization and analysis of all time series of machine signals
* Export with all measuring points and time stamps
* Draw conclusions about the efficiency and quality of the process
* Identify correlations from large amounts of data

LHReportInfo

Evaluating the machine data

* Create reports and statistics
* Machine performance analysis
* Overview of all reports in the dashboard
* Retrieval of individual parameters such as machine utilization, alarms, or reasons for downtime

LHEnergyInfo

Measuring and visualizing energy consumption

* Overview of performance and energy consumption data for electricity, compressed air, cooling lubricants
* Consumption monitoring to identify potential savings
* Machine energy consumption
* Workpiece energy consumption

Photos

Ein Bild, das Text, Screenshot, medizinische Ausrüstung, Design enthält.

KI-generierte Inhalte können fehlerhaft sein.

04\_LVT\_Webplatform\_Architektur\_60x33,75cm\_Englisch\_GU\_2025

Ein Bild, das Screenshot, Text enthält.

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LHEnergyInfo-Gesamtuebersicht-en

All current consumption data at a glance with LHEnergyInfo

Ein Bild, das Screenshot, Text enthält.

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LHEnergyInfo-Werkstueckkosten-en 1

Detailed overview of costs and energy consumption for each individual workpiece

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