

SMART FACTORY INSTEAD OF PEN AND PAPER

Boosting OEE in stranding machines with a Data Platform



Challenge: BRUGG Lifting, a leading specialist in lifting and conveyor technology, aimed to improve its production efficiency, particularly regarding OEE. To enable real-time monitoring, existing processes – previously reliant on manual data collection – needed to be digitized. The production systems, including heterogeneous machine controls, required cloud-based networking. The solution scenario also needed to integrate equipment from various manufacturers (production systems, gateways).

Solution: BRUGG Lifting implemented a data platform capable of capturing over 50 data points per machine in real time. A cloud infrastructure based on Microsoft Azure enables the automated analysis and visualization of OEE data and machine downtimes. Reports that previously took a month to produce are now available within minutes. Potential problems can be identified early, decision-making is accelerated, and operational control is more efficient. This data-driven solution adheres to a “Zero Downtime” strategy. A central data platform lays the foundation for proactive improvements in areas such as energy efficiency.

Applications: Gateways for data extraction; Data storage in a cloud-based data platform; Seamless integration of HMI-captured data for automated downtime classification; Framework CENTERSIGHT scale for visualizing shop floor data (individual machines, production halls); Monitoring of KPIs, such as cable tension, to improve OEE.

Manually monitoring machines means only reacting once they come to a standstill. With real-time data, our machine operators can immediately adjust critical parameters to prevent downtime and improve OEE. With Device Insight as our partner, supporting us end-to-end, from connecting machines and providing data to OEE calculation, we were able to achieve our goals quickly.

Ralf Oswald, Head of IT & Digital Transformation

About BRUGG Lifting

BRUGG Lifting is a global leader in the production of elevator ropes, architectural ropes, wire ropes, as well as lashing and lifting equipment. The company is part of the BRUGG Group, based in Switzerland.

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