

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.

BRUGG
Lifting