

VIEZO



## DIAMOND CUTTER MONITORING: HOW SONORA SAVED IKEA FROM COSTLY DOWNTIME

Sonora is Viezo's advanced predictive maintenance system that uses vibration sensors to monitor industrial equipment like pumps and motors in real-time, detecting faults through recurring patterns via AI analysis. Data is collected hourly, and displayed on a web platform for timely alerts, enabling proactive repairs to avoid downtime.

IKEA Industry Lietuva, based in Kazlų Rūda (Lithuania), manufactures chipboards and ready-to-assemble furniture components as part of the global IKEA production network. Operating a modernised two-plant facility, it employs around 700 staff and doubled its capacity following investment in advanced automation and “easy-assembly” technology.

In July 2025, Sonora detected a developing shaft imbalance on IKEA diamond cutter, marked by rising RMS levels and strong energy concentration at the lower shaft frequency. Maintenance confirmed the fault during inspection, and the cutter was replaced before the issue escalated.



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## WHAT HAPPENED?

Sonora's early detection of the diamond cutter imbalance enabled IKEA to intervene during scheduled maintenance, preventing an unplanned stop on a 24/7 production line and avoiding costly downtime.



## RESULTS

- Prevented an unplanned stop on a 24/7 production line;
- Avoided costly downtime and production losses;
- Enabled timely cutter replacement during scheduled maintenance;
- Ensured continuous, stable operation with no disruption.

“Sonora’s timely warning saved us from a complete defect of the motor.”

Automation Engineer, IKEA Industry Lithuania