## Monitoring cracks in a ladle crane to prevent costly downtime

### **Situation**

- The ladle crane is critical to steel production, downtime halts the entire process.
- Repairs require careful planning, expert knowledge, and are difficult to execute.
- Unplanned repair work could lead to long delays and substantial production losses.

## **Solution**

- Villari sensors were installed in less than one hour with minimal disruption to operations.
- Continuous monitoring allowed safe operation while proper repair plans were developed.
- Standalone monitoring system that does not require local integration









**12** sensor probes installed

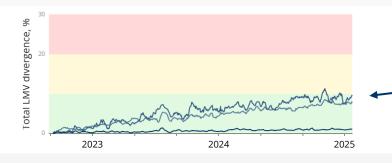


**4 years** of repair work have been postponed

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### **Results**

- Data revealed slow, consistent crack propagation over time.
- Immediate repairs were deemed unnecessary, allowing safe postponement.
- Repair costs a ~\$30,000 can be deferred with 4 years.



Data indicates slow but steady crack growth over the past two years. Current projections suggest that no action will be required for another two years.





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