



Food Market Case Study:

Production & Maintenance Process Optimization by ADI OtoSense Smart Motor Sensor

SMS Impact in the Food Industry

ADI OtoSense SMS constantly monitors the overall health of the motors driving key food manufacturing equipment such as centrifugal machines, pumps, mixers, chillers, compressors etc. It sends warnings/alerts as soon as a sign of wear or a fault is detected. Caught at an early stage, breakdowns are hence avoided.

Furthermore, the information provided about the level of severity and origin of the failure allows for better maintenance planning, thus avoiding line stoppages or production losses.

CUSTOMER STORY: Global food & biochemicals company



USE CASE

Real-time monitoring of lactic acid production processes.



CHALLENGE

Due to a design flaw, a key piece of equipment – a powerful centrifugal machine – breaks down at least once a year because of a bearing lubrication problem. Each time, the machine remains down for three weeks, resulting in significant costs:

- Repair: materials such as crane, labor hours, etc.
- Impact on the production of the machine's downtime



SOLUTION

ADI OtoSense Smart Motor Sensor alerts the maintenance team in advance when the lubrication system is about to fail in order to stop the machine and do its maintenance before the bearings and main shaft break.



NEXT STEP

Accuracy and ease of use of the solution convinced the company to expand to more machines.

Customer Value of Smart Motor Sensor installation in food market:

↓ **80%** AVOIDED UNPLANNED DOWNTIME

Early detection of potential failures allows for planning the maintenance

↑ **65%** ADDED TIME IN-BETWEEN EQUIPMENT OVERHAULS

Maintenance and repairs are done only when necessary

↓ **85%** CUT IN UNNECESSARY ROUTE-BASED MAINTENANCE

Maintenance teams optimize their time and interventions