

Pharmaceutical Industry – success case

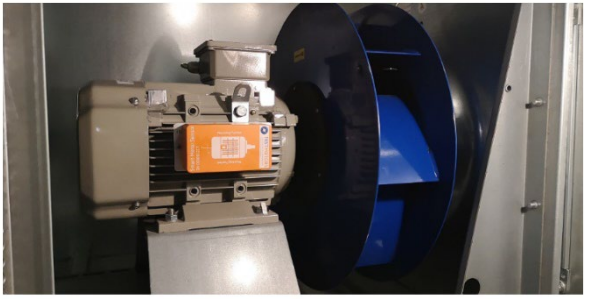
Pharmaceutical manufacturers implement SMS in critical Conditioning Turbines to avoid unscheduled outages

Results for Pharma customers

- ADI Smart Motor Sensor (SMS) consolidated its presence in the European pharmaceutical market and scaling in other regions (Americas, Asia).
- Reports from customers, with hundreds of SMS installed, prove how SMS anticipates potential problems related with Bearings, Motor shaft, Performance.



Some installations



OtoSense SMS installed on Conditioning Turbine, HVAC



OtoSense SMS with external antenna



SMS installed on Conditioning Turbine inside the cabinet

At a glance

GOAL

The pharmaceutical industry is subject to strict FD regulations to ensure product quality and reliability. Detecting potential assets breakdowns at an early stage, well before they happen, to allow for planning of repairs, and avoid unscheduled costly downtime, it is a main priority.

CHALLENGES

- Traditional maintenance methods do not continuously monitor the health of regulatory-critical machines. Examples of these include air treatment units (ATU), compressors, pumps, and conditioning turbines.
- Yet, these machines continuously run 24/7 and can only be stopped once (or twice) a year for planned overhaul, whether they need it or not.
- Unexpected downtime of these machines is costly, resulting in out-of-compliance conditions, product spoilage, loss of product, and possibly even public health hazards.

APPLICATION

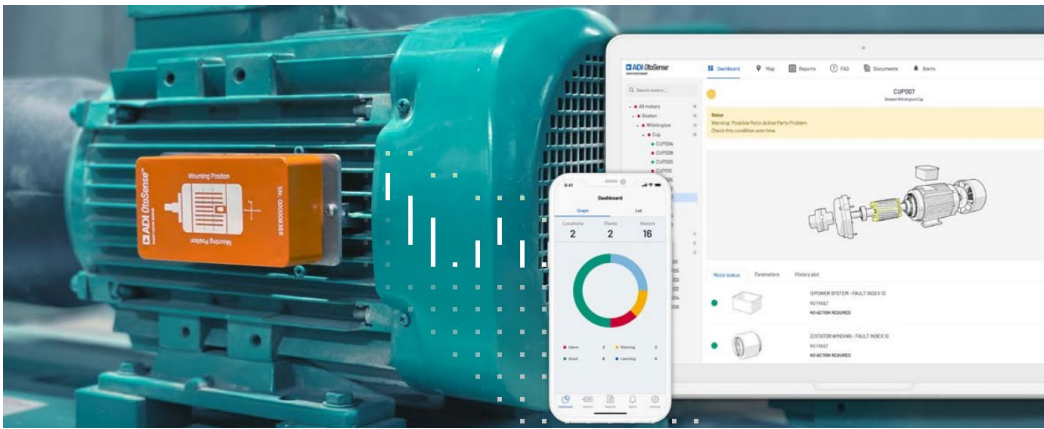
OtoSense SMS, proactive, predictive maintenance from continuous monitoring of Conditioning Turbine.

RESULTS

- SMS with external antenna monitors the critical asset, located inside cabinets
- Optimized allocation of maintenance resources
- Decreased unplanned maintenance
- Reduced costly downtime

Trusted by experts

ADI OtoSense™ Smart Motor Sensor is a full turnkey hardware and software solution that helps avoid downtime and optimize maintenance cost.



OtoSense Smart Motor Sensor reduces overall costs:

- Reduces unforeseen downtimes and avoids catastrophic failures
- Extends period between overhauls
- Reduces route-based activities & optimizes maintenance resource allocation
- Manages spare parts and stock more efficiently
- Increases lifetime of your equipment
- Optimizes motor efficiency
- Improves OEE (Overall Equipment Efficiency)

\$30k – \$50k/hr

Typical cost of unplanned downtime in an industrial setting

5-10%

Reduction in overall maintenance costs

71%

of organizations don't know when assets should be scheduled for maintenance

75%

of organizations don't know when assets should be replaced

80%

reduction in unplanned downtime with Smart Motor Sensor predictive maintenance

OtoSense Smart Motor Sensor Advantages:



Single platform monitors all the main assets in the building.



Sample signals at 6.2 kHz every 20 minutes that enables and covers several mechanical and electrical faults with high reliability.



Detects and identifies anomalies, leading the path to a more predictive maintenance.



Quick to install and easy to set up, the SMS doesn't require additional wires or gateways and works with most motors, regardless of their brand

ADI OtoSense™

SMART MOTOR SENSOR

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V.1



ADI OtoSense Smart Motor Sensor can improve your productivity and cost effectiveness, visit:

<https://oneillcompressedair.com/smart-motor-sensor/>