Prevent revenue loss from machine failure

Minimize the risk of costly downtime with Define IIoT solutions

| Listening to asset | Collecting data | Analyzing with proven technology | Actionable insights | Maximizing asset health |
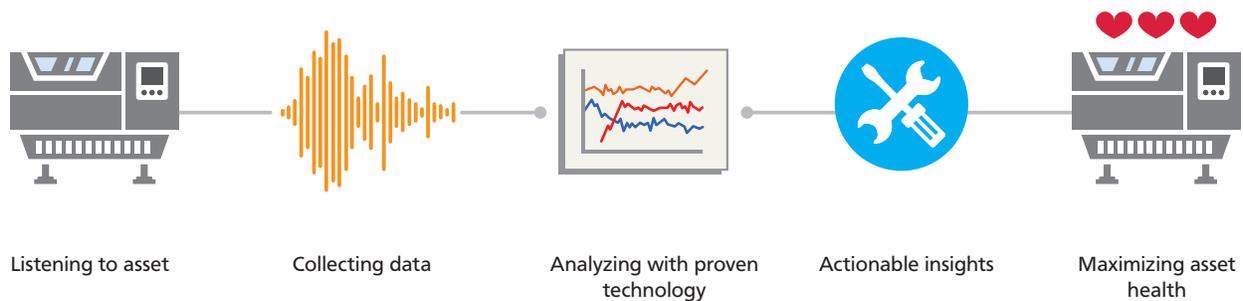
Unexpected machinery failure is expensive. It results in unplanned downtime and can cause secondary failures to other machine components, which can create Health & Safety and Environmental risks.

Machine condition monitoring combines advanced hardware, intelligent software, and trusted service and support – providing a broad, connected view of your operations. Together, they enable you to mitigate risk, boost safety, and reduce maintenance costs, while improving equipment reliability, uptime, and efficiency.

- Hardware monitoring systems and sensors protect your equipment and collect rich condition monitoring and diagnostic data for analysis.

- Condition monitoring and diagnostics software connects real-time and historical data from production equipment to help you anticipate failure before it occurs.

- With scalable deployment and ongoing support, you can ensure that you're maximizing the value of your condition monitoring program

Vibration and condition monitoring Condition monitoring and diagnostics software connects real-time and historical data from production equipment to help you anticipate failure before it occurs.

Remote conditioning monitoring offers a proactive approach to ongoing maintenance by providing you with visibility and insights into machine performance across the board.

Harnessing machine data increases the probability that your service technicians will being able to resolve the issues remotely. Should a maintenance visit be required, the provisioning of team members and the resources required can be completed in a fraction of the time. This not only increases equipment availability, but results in reduction of unscheduled downtime or its eradication completely.

Define INSTRUMENTS

Vibration Monitoring Case Study

The problem An ABAC screw compressor in an electronics manufacturing plant supplies compressed air to automatic assembly equipment. Continuous air flow is essential to maintain production. Without reliable air delivery manufacturing will cease, the resultant downtime would lead to tens of thousands of dollars in lost revenue.

The solution Using Define's IIoT connected products solutions, sensors are placed in the compressor to measure the vibration on the thrust bearings and the bearing temperature. The sensors are wired to a Cloud Edge Gateway and data is transmitted to the Cloud.

From this data a profile of a healthy compressor can be established. With Define's IIoT dashboard, technical staff can easily see the condition of the compressor at any time, studying the data for trends, history and alarm status.

The future As time passes, any changes in the vibration signature or temperature in the compressor serve as an early warning flag, way ahead of equipment failure. Additionally, when connected to ERP software, replacement parts can be automatically ordered and delivered before the issue becomes critical, ensuring continuous production.
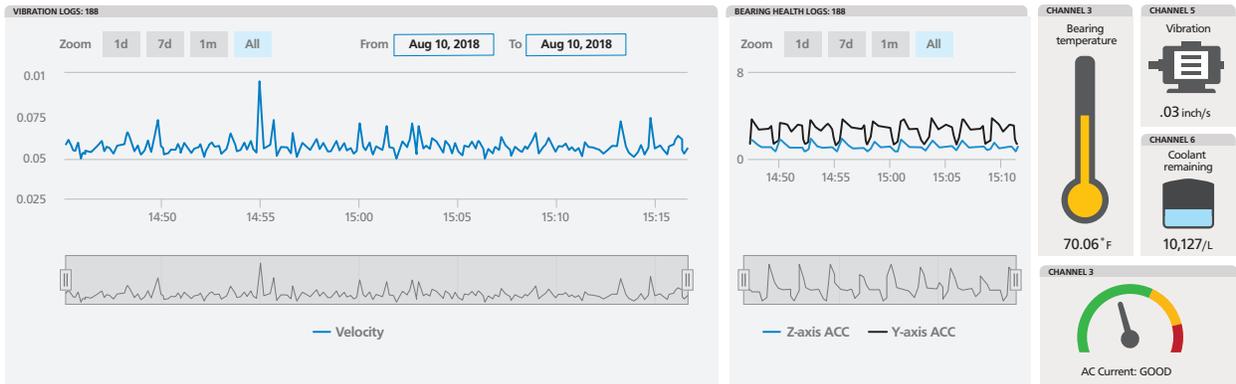
Operational oversight

Collect operational data from every machine for deeper insights into the workings of your business

Harness meaningful data

Identify dead spots, inefficiencies, and untapped opportunities in your value chain

Predict and plan

With data insights you can achieve greater productivity, planning and growth.

Talk to our IIoT experts, call 214-926-4950

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