

EWA Sensors

All-in-one machine health solution



What it offers

Real-time machine monitoring

- ✓ **Universal Sensor Technology**
24/7 machine monitoring – a single sensor fits all industrial applications.
- ✓ **Secure On-Premises and Edge Analytics**
Unlike cloud-only systems, data stays securely on-site with 1-sec resolution.
- ✓ **Easy Plug and Play Installation**
Non-intrusive mounting with zero downtime - fully operational in 12 hours.
- ✓ **Maximize Uptime and Reduce Costs**
Actively extends machine lifetime, optimizes operations, and lowers costs.

All-in-one Sensor and Machine Health Solution

Maximizing Operational Efficiency and Machine Lifetime

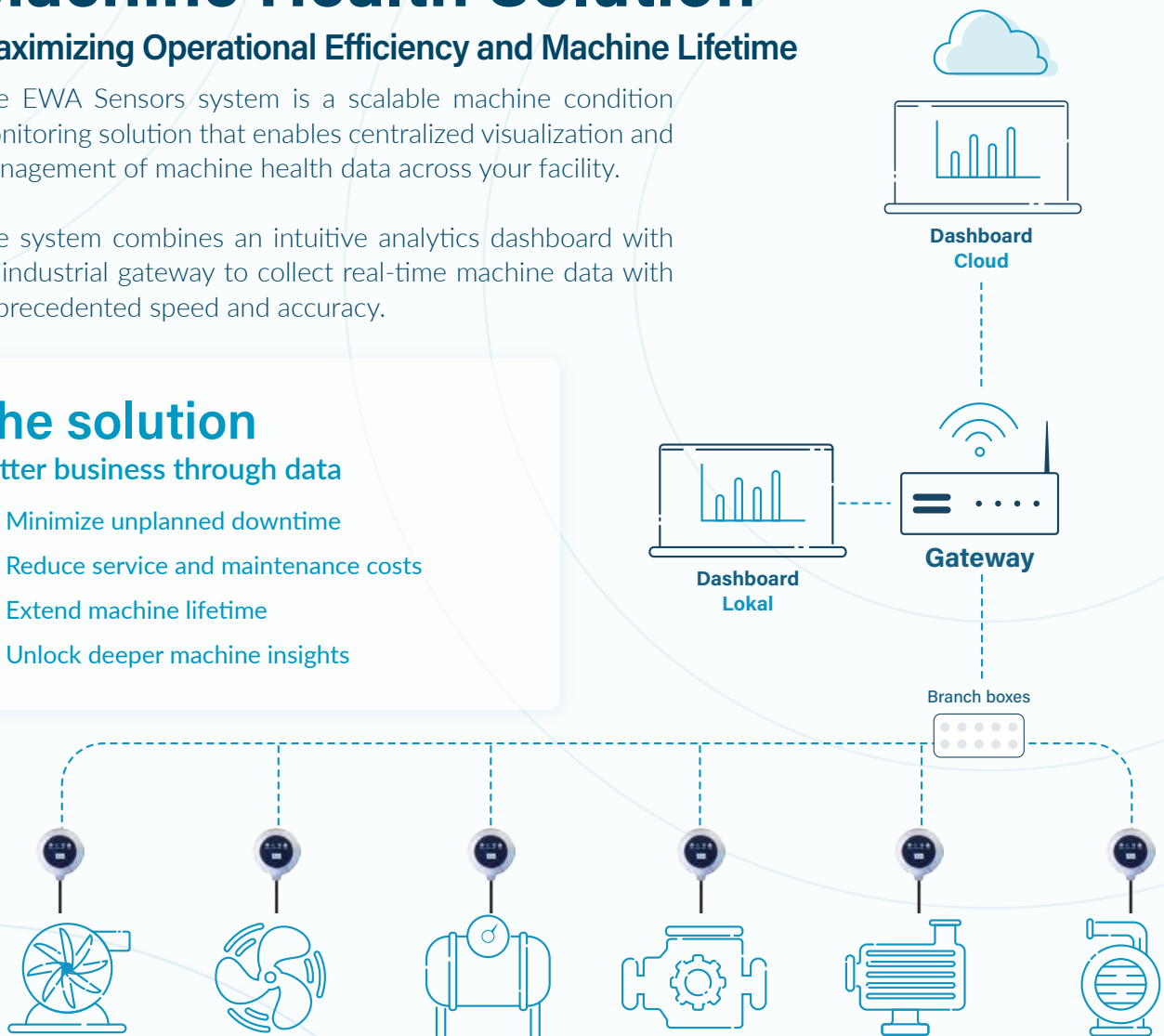
The EWA Sensors system is a scalable machine condition monitoring solution that enables centralized visualization and management of machine health data across your facility.

The system combines an intuitive analytics dashboard with an industrial gateway to collect real-time machine data with unprecedented speed and accuracy.

The solution

Better business through data

- ✓ Minimize unplanned downtime
- ✓ Reduce service and maintenance costs
- ✓ Extend machine lifetime
- ✓ Unlock deeper machine insights



1 EWA Sensor ----->----- 2 Gateway ----->----- 3 Dashboard

EWA sensors are installed in minutes using non-intrusive mounting:

- 7-Axis multi-domain sensing
- 1-second real-time analytics
- Zero-downtime epoxy/magnet mounting
- IP68 submersible sealing
- Remote upgrades via modbus

A single gateway connects up to 247 sensors:

- Ethernet, WiFi and GSM
- Built-in data storage backup
- EWA software included for smart data transmission
- Remote sensor management and FW upgrades

Centralized visualization powered by edge intelligence:

- Real-time status dashboards
- Intuitive trend visualization
- Specific fault and severity alerting
- Zero-latency data access
- Ultra-Low-bandwidth network load

Analytics Dashboards

Multi-Domain Synergy

Combines 3-axis vibration and magnetic field data to track motor and shaft RPM during VFD operation.

Operational & Process Insights

Logs motor slip, duty cycles, operational runtime, and start/stop sequences for asset utilization.

Transient & Cavitation Detection

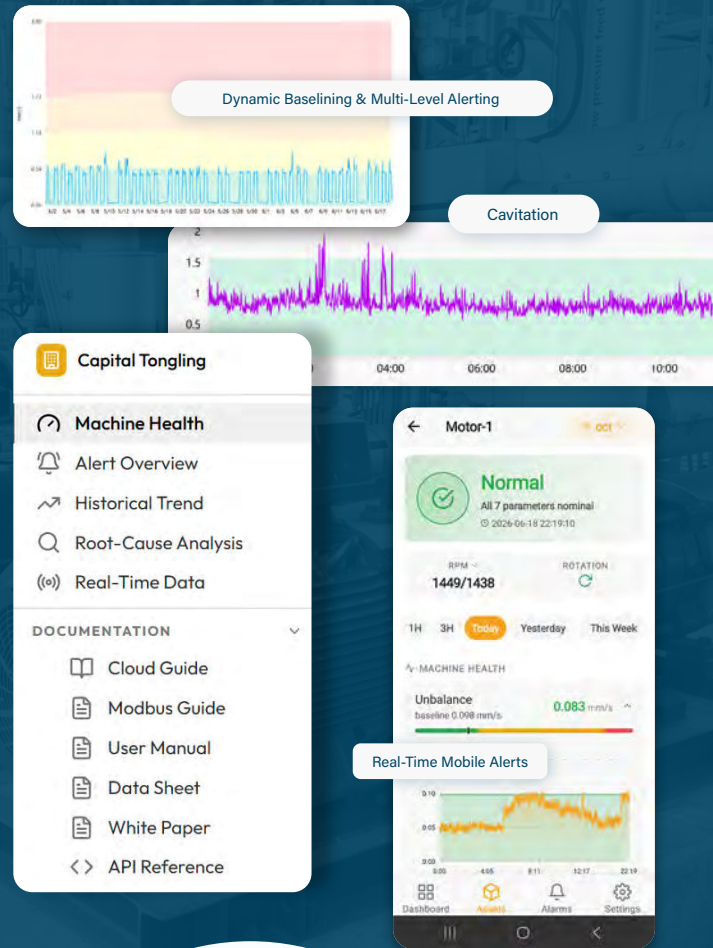
Instantly tracks and analyzes the severity of destructive cavitation and sudden load changes

Bearing & Gearbox Diagnostics

Provides early detection and severity tracking of bearing faults and gear tooth wear.

Mechanical & Structural Diagnostics

Uses a 16 kHz spectrum to track unbalance, structural looseness, and vibration RMS.



A Universal Edge Device

The EWA sensor is a true edge device, keeping all raw data securely on-site at the customer premises. By eliminating cloud-based data dependency, the hybrid sensor performs continuous local analytics - delivering actionable insights with an unprecedented 1-second real-time analytics across all machine types.

- Zero-downtime magnetic or epoxy mounting
- Up to 247 sensors per gateway deployment
- 100% localized edge computing
- IP68-rated for submerged environments

Multi-Domain Sensor Technology



VIBRATION 3D



MAGNETIC
FIELD 3D



TEMPERATURE



COMPRESSORS



FANS



MIXERS



MOTORS



PUMPS



GEARBOXES

From Installation to Actionable Insights in 12 Hours

Easy installation, commissioning and implementation



HARDWARE DEPLOYMENT

Plug & Play in 15 minutes



12 HOURS AUTOMATED BASELINING



FULL OPERATION

Live Insights and machine status

Turn Machine Data Into Operational Excellence

The EWA solution transforms high-resolution machine data into actionable maintenance insights. By detecting faults before they cause failure, we help you eliminate unplanned downtime, extend asset lifetime, and drastically reduce maintenance expenditures – all within 12 hours of deployment.



INCREASED
UPTIME IN DAILY
OPERATIONS



SAVED
MAINTENANCE
COSTS



INCREASED
MACHINE
LIFETIME



PROCESS
INSIGHTS

Get started today
and discover the
full EWA solution

Discover how the EWA solution supports your operations through real-time machine health monitoring and operational insights



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