

Global Machine Condition Monitoring Sensors Market Growth 2026-2032

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Abstracts

The global Machine Condition Monitoring Sensors market size is predicted to grow from US\$ 1741 million in 2025 to US\$ 3064 million in 2032; it is expected to grow at a CAGR of 8.4% from 2026 to 2032.

Machine condition monitoring sensors are industrial sensors and edge sensing nodes installed on rotating machinery, power-transmission equipment and critical production assets to capture physical and operational parameters associated with machine health. This study focuses on sensor hardware directly used in condition monitoring, fault detection, predictive maintenance, machinery protection and asset reliability programs. Major product types include vibration accelerometers, velocity sensors, displacement and eddy-current probes, temperature sensors, integrated vibration-and-temperature sensors, wireless triaxial vibration sensors, acoustic and ultrasonic sensors, current and power monitoring sensors, oil-debris and contamination sensors, speed and phase-reference sensors, and related edge sensing devices. Typical monitored assets include motors, pumps, fans, compressors, gearboxes, reducers, bearings, machine-tool spindles, turbines, generators, conveyors, robots and hydraulic systems. These sensors help detect early-stage degradation such as bearing wear, imbalance, misalignment, looseness, gear damage, lubrication problems, cavitation, overload and electrical abnormalities. ISO17359:2018 provides general guidelines for setting up condition monitoring programs for machines and refers to parameters such as vibration, temperature, tribology, flow rate, contamination, power and speed, which supports a market boundary centered on machine-health sensing hardware rather than broader maintenance software or full asset-management platforms.

In 2025, the global production of machine condition monitoring sensors is estimated at 11.2 million units, with an average price of US\$158.9 per unit and a gross profit margin

of 43%.

From a supply-side perspective, the market is divided into several vendor groups. Specialist sensor manufacturers such as PCB, Wilcoxon, CTC, Metrix, Hansford and Kistler focus on accelerometers, vibration sensors, probes and monitoring accessories. Automation and reliability leaders such as BakerHughesBentlyNevada, SKF, Emerson, ABB, Siemens, Rockwell, Honeywell, ifm and Pepperl+Fuchs integrate sensors into broader condition monitoring, machinery protection, automation and asset-performance systems. Bearing and power-transmission companies such as Schaeffler, Timken and NSK use wireless sensors as an entry point into reliability services. Newer IIoT-oriented suppliers such as Erbesd, Nanoprecise and Traction emphasize wireless sensors, cloud analytics and scalable deployment. Chinese suppliers are increasingly visible in low-power wireless vibration and temperature sensing, especially for domestic industrial internet and predictive maintenance projects.

Demand growth is being driven by two parallel trends. The first is deeper monitoring of high-criticality assets in sectors such as oil and gas, chemicals, power generation, steel, cement, mining, pulp and paper, food and beverage, semiconductor manufacturing, automotive manufacturing, wind power and marine operations. The second is the expansion of monitoring coverage to less critical but more numerous assets that were previously inspected manually or by portable data collectors. Wireless vibration and temperature sensors are particularly important in this second trend because they reduce wiring cost and deployment complexity. Emerson's AMS Wireless Vibration Monitor, ABB's Smart Sensor, TEConnectivity wireless vibration sensors, SPM's Airius solution and Erbesd's Phantom sensors all illustrate how vendors are positioning wireless sensing as a way to scale machine health monitoring beyond traditional critical assets.

From a technology perspective, the category is moving from single-parameter wired sensing toward multi-parameter, wireless, edge-intelligent and platform-integrated sensor nodes. Critical turbomachinery, compressors and high-value rotating equipment will continue to require high-fidelity accelerometers, proximity probes and protection-grade sensing systems. At the same time, MEMS-based triaxial vibration and temperature sensors are becoming more common for scalable monitoring of motors, pumps, fans, gearboxes and conveyors. Future differentiation will depend on signal quality, frequency response, battery life, hazardous-area certification, mounting reliability, industrial protocol support, edge analytics, diagnostic models and integration with plant historians, SCADA, CMMS and EAM systems. The market outlook is positive, but not all vendors will benefit equally: pure low-cost hardware suppliers face commoditization, while vendors that combine reliable sensing hardware with analytics,

workflow integration and application know-how are better positioned for sustainable growth.

LP Information, Inc. (LPI) ' newest research report, the "Machine Condition Monitoring Sensors Industry Forecast" looks at past sales and reviews total world Machine Condition Monitoring Sensors sales in 2025, providing a comprehensive analysis by region and market sector of projected Machine Condition Monitoring Sensors sales for 2026 through 2032. With Machine Condition Monitoring Sensors sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Machine Condition Monitoring Sensors industry.

This Insight Report provides a comprehensive analysis of the global Machine Condition Monitoring Sensors landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Machine Condition Monitoring Sensors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Machine Condition Monitoring Sensors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Machine Condition Monitoring Sensors and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Machine Condition Monitoring Sensors.

This report presents a comprehensive overview, market shares, and growth opportunities of Machine Condition Monitoring Sensors market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Vibration Sensors

Temperature Sensors

Acoustic & Ultrasonic Sensors

Oil Condition Sensors

Motor Current/Energy Sensors

Others

Segmentation by Detection Method:

Contact Sensors

Non-Contact Sensors

Segmentation by Communication Methods:

Wired

Wireless IIoT

Segmentation by Application:

Oil and Gas

Chemicals

Power Generation

Metals and Mining

Cement and Building Materials

Pulp and Paper

Food and Beverage

Automotive Manufacturing

Semiconductor and Electronics Manufacturing

Wind Power and Renewable Energy

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Baker Hughes Company

SKF AB

Emerson Electric Co.

ABB Ltd

Siemens AG

Rockwell Automation, Inc.

Honeywell International Inc.

Fluke Corporation

ifm electronic gmbh

SICK AG

Pepperl+Fuchs SE

TE Connectivity Ltd.

PCB Piezotronics, Inc.

Wilcoxon Sensing Technologies

CTC, Inc.

Metrix Instrument Co., L.P.

Hansford Sensors Ltd

Kistler Group

Dytran Instruments, Inc.

Meggitt Sensing Systems

Schaeffler AG

SPM Instrument AB

Erbessd Instruments

Banner Engineering Corp.

Grace Technologies, Inc.

Timken Company

National Instruments Corporation

Yokogawa Electric Corporation

OMRON Corporation

NSK Ltd.

RION Co., Ltd.

IMV Corporation

NADA Co., Ltd.

Traction Tecnologia Ltda.

Nanoprecise Sci Corp

HID Global Corporation

Suzhou Jiejie Sensing Technology

Beijing Beetech

Shenzhen QR Technology Development Corporation Ltd

Broadsens Corporation

Key Questions Addressed in this Report

What is the 10-year outlook for the global Machine Condition Monitoring Sensors market?

What factors are driving Machine Condition Monitoring Sensors market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Machine Condition Monitoring Sensors market opportunities vary by end market size?

How does Machine Condition Monitoring Sensors break out by Type, by Application?

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