

Global Machine Condition Monitoring Sensors Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Machine Condition Monitoring Sensors market size is expected to reach \$ 3136 million by 2032, rising at a market growth of 7.9% CAGR during the forecast period (2026-2032).

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 Tractian 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.

This report studies the global Machine Condition Monitoring Sensors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Machine Condition Monitoring Sensors and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Machine Condition Monitoring Sensors that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Machine Condition Monitoring Sensors total production and demand, 2021-2032, (K Units)

Global Machine Condition Monitoring Sensors total production value, 2021-2032, (USD Million)

Global Machine Condition Monitoring Sensors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Machine Condition Monitoring Sensors consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Machine Condition Monitoring Sensors domestic production, consumption, key domestic manufacturers and share

Global Machine Condition Monitoring Sensors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Machine Condition Monitoring Sensors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Machine Condition Monitoring Sensors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Machine Condition Monitoring Sensors market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include 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, etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Machine Condition Monitoring Sensors market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Machine Condition Monitoring Sensors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Machine Condition Monitoring Sensors Market, Segmentation by Type:

Vibration Sensors

Temperature Sensors

Acoustic & Ultrasonic Sensors

Oil Condition Sensors

Motor Current/Energy Sensors

Others

Global Machine Condition Monitoring Sensors Market, Segmentation by Detection Method:

Contact Sensors

Non-Contact Sensors

Global Machine Condition Monitoring Sensors Market, Segmentation by Communication Methods:

Wired

Wireless IIoT

Global Machine Condition Monitoring Sensors Market, 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

Companies Profiled:

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.

Tractian Tecnologia Ltda.

Nanoprecise Sci Corp

HID Global Corporation

Suzhou Jiejie Sensing Technology

Beijing Beetech

Shenzhen QR Technology Development Corporation Ltd

Broadsens Corporation

Key Questions Answered:

1. How big is the global Machine Condition Monitoring Sensors market?
2. What is the demand of the global Machine Condition Monitoring Sensors market?
3. What is the year over year growth of the global Machine Condition Monitoring Sensors market?
4. What is the production and production value of the global Machine Condition Monitoring Sensors market?
5. Who are the key producers in the global Machine Condition Monitoring Sensors market?
6. What are the growth factors driving the market demand?

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