

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

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## Abstracts

The global Machine Condition Monitoring Software market size is expected to reach \$ 5131 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032).

Machine Condition Monitoring (MCM) Software?often categorized under Asset Performance Management (APM) or predictive maintenance platforms?is an enterprise industrial software ecosystem engineered to track, analyze, and diagnose the real-time physical health of manufacturing and processing equipment. Moving far beyond reactive repair patterns or fixed time-based calendars, MCM software continuously ingests high-frequency telemetry streams from specialized Internet of Things (IoT) sensors mounted directly to rotating and critical infrastructure. The platform runs specialized digital signal processing algorithms?such as Fast Fourier Transforms (FFT) for vibration spectral analysis, thermal trend modeling, and magnetic flux calculation?to identify microscopic hardware degradation like bearing spalls, shaft misalignments, or stator winding imbalances weeks before a physical failure occurs. The average gross margin in this industry reached 78.42%.

The supply chain for machine condition monitoring software is deeply cross-disciplinary, relying on a foundation of edge microelectronics, hyper-scale industrial telemetry pipelines, and downstream integration into physical maintenance workflows. The upstream supply chain provides the essential physical data-acquisition hardware, secure cloud hosting frameworks, and advanced diagnostic processing components necessary to capture and parse heavy raw data streams. Analog Devices, Inc. and Amphenol Corporation function as vital upstream hardware partners, supplying the high-frequency triaxial MEMS accelerometers, piezoelectric vibration elements, and infrared thermal probes that generate the raw electrical telemetry. For processing and storing

these continuous data arrays, Amazon Web Services (AWS) or Microsoft Azure serves as a core upstream infrastructure provider, delivering the high-velocity cloud databases, data lakes, and strict industrial cybersecurity layers needed to compile petabytes of machinery logs safely. Simultaneously, machine learning software environments supply the upstream mathematical modules used to run automated anomaly-detection and failure-mode prediction algorithms.

Conversely, the downstream supply chain spans the specialized software developers, automated equipment OEMs, systems integrators, and heavy heavy-industry factories that turn data insights into physical maintenance tasks. Elite industrial automation and asset intelligence conglomerates—including Emerson Electric Co. (with its AMS platform), Bently Nevada (a Baker Hughes business), SKF Group, Augury Inc., and Traction—act as the primary downstream software synthesis customers. They purchase upstream sensor microchips and cloud data pipelines to compile complete, turnkey machine condition monitoring platforms. These unified systems are funneled through industrial engineering firms to final downstream enterprise end-users. A major final downstream customer segment includes heavy process manufacturers like Dow Inc. or ExxonMobil Corporation, which deploy MCM networks across vast networks of pumps, compressors, and turbines to eliminate catastrophic pipeline or refinery shutdowns. Similarly, automotive assembly leaders and heavy utilities use these software dashboards to maintain automated production line stability, track overall equipment effectiveness (OEE), and dynamically dispatch plant technicians to specific machines exactly when maintenance is needed.

This report studies the global Machine Condition Monitoring Software demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Machine Condition Monitoring Software, 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 Software that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Machine Condition Monitoring Software total market, 2021-2032, (USD Million)

Global Machine Condition Monitoring Software total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Machine Condition Monitoring Software total market, key domestic companies, and share, (USD Million)

Global Machine Condition Monitoring Software revenue by player, revenue and market share 2021-2026, (USD Million)

Global Machine Condition Monitoring Software total market by Type, CAGR, 2021-2032, (USD Million)

Global Machine Condition Monitoring Software total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Machine Condition Monitoring Software market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include ABB (CH), Bachmann Electronic (AT), Baker Hughes (US), Eaton (IE), Emerson Electric (US), Festo (DE), Fluke (US), GE Vernova (US), Honeywell International (US), Ingeteam (ES), 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 Software market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, 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 Software Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Machine Condition Monitoring Software Market, Segmentation by Type:

Cloud Based

On-premise

Global Machine Condition Monitoring Software Market, Segmentation by Data Acquisition Method:

Continuous Synchronous Streaming

Edge-Triggered Bursted

Global Machine Condition Monitoring Software Market, Segmentation by Analytical Modalities:

Vibration Analysis

Thermal & Infrared Thermography

Ultrasound

Others

Global Machine Condition Monitoring Software Market, Segmentation by Application:

Aerospace and Defense

Automotive and Transportation

Chemical and Petrochemical

Food & Beverage

Marine

Mining and Metal

Oil and Gas

Power Generation

#### Companies Profiled:

ABB (CH)

Bachmann Electronic (AT)

Baker Hughes (US)

Eaton (IE)

Emerson Electric (US)

Festo (DE)

Fluke (US)

GE Vernova (US)

Honeywell International (US)

Ingeteam (ES)

Parker Hannifin (US)

Rockwell Automation (US)

Schaeffler Technologies (DE)

Siemens (DE)

Augury (US)

SPM Instrument (SE)

SKF (SE)

#### Key Questions Answered

1. How big is the global Machine Condition Monitoring Software market?
2. What is the demand of the global Machine Condition Monitoring Software market?
3. What is the year over year growth of the global Machine Condition Monitoring Software market?
4. What is the total value of the global Machine Condition Monitoring Software market?
5. Who are the Major Players in the global Machine Condition Monitoring Software market?
6. What are the growth factors driving the market demand?

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