

Global Motor Monitoring Market Size study, by Technology (Vibration Analysis, Acoustic Analysis, Temperature Monitoring, Electrical Monitoring, Oil Analysis), by Application, by Industry Vertical, by Deployment Model, by Sensor Type, and Regional Forecasts 2022-2032

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Abstracts

Global Motor Monitoring Market is valued approximately at USD 1.84 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 7.17% over the forecast period 2024-2032. In today's era of intelligent automation and predictive maintenance, motor monitoring systems are fast becoming indispensable tools for industrial asset optimization. These systems empower industries to continuously track motor health, anticipate potential failures, and maximize operational efficiency by leveraging advanced sensor technology and real-time analytics. As operational reliability becomes a strategic imperative, industries across manufacturing, energy, transportation, and utilities are rapidly embracing motor monitoring to prolong equipment lifespan, mitigate downtime, and drive ROI.

The transition from reactive to predictive maintenance frameworks is dramatically reshaping the way industries interact with their critical assets. Technologies such as vibration and acoustic analysis are enabling fault detection with remarkable precision, while thermal monitoring and electrical diagnostics are offering real-time insights into motor performance degradation. Simultaneously, oil analysis sensors are gaining traction for detecting internal wear and lubrication anomalies. As a result, businesses are now equipped to act proactively—preempting disruptions, reducing maintenance costs, and ensuring compliance with increasingly stringent operational standards. The adoption of cloud-based platforms has further accelerated this transformation by

enabling centralized monitoring, data-driven decision-making, and seamless integration across industrial networks.

Several macro-level factors are fueling this market growth. The increasing complexity of industrial infrastructure, rising labor costs, and the global emphasis on energy efficiency have converged to stimulate demand for intelligent monitoring solutions. Meanwhile, digital twin frameworks and AI-powered diagnostic algorithms are emerging as game-changers, allowing for simulation-based maintenance planning and autonomous troubleshooting. However, the road to widespread adoption isn't without its friction. High upfront costs, particularly for SMEs, along with concerns regarding data privacy, interoperability of legacy systems, and the need for skilled technicians continue to challenge market players. Nonetheless, the rapid evolution of sensor technologies and scalable cloud-based solutions are steadily lowering entry barriers for new adopters.

As Industry 4.0 continues to shape next-generation manufacturing, motor monitoring is evolving beyond traditional asset protection—it's becoming a core enabler of digital transformation. Strategic collaborations between industrial IoT providers, sensor manufacturers, and analytics firms are fostering innovative ecosystems that are reshaping industrial maintenance paradigms. These partnerships are facilitating the deployment of customized, scalable, and interoperable monitoring solutions tailored to diverse motor types including electric, induction, stepper, DC, and servo motors. Whether deployed on-premise for critical systems or hosted on cloud platforms for distributed assets, these solutions are delivering unprecedented value in terms of efficiency, uptime, and sustainability.

Regionally, North America dominates the motor monitoring landscape, propelled by mature manufacturing sectors, strong regulatory frameworks, and high digital readiness. The U.S. in particular leads in adopting cloud-enabled and AI-integrated motor diagnostics. Europe follows closely, with initiatives like Industry 5.0 and a strong focus on industrial automation driving growth across Germany, the UK, and France. Meanwhile, the Asia Pacific region is projected to grow at the fastest pace through 2032. Burgeoning industrialization in China and India, coupled with rising investments in smart manufacturing infrastructure, are underpinning this rapid expansion. Latin America and the Middle East & Africa are also witnessing a gradual uptick, driven by energy sector reforms and infrastructure modernization efforts.

Major market player included in this report are:

Siemens AG

ABB Ltd.

Honeywell International Inc.

General Electric Company

Rockwell Automation, Inc.

Schneider Electric SE

Emerson Electric Co.

Mitsubishi Electric Corporation

Eaton Corporation plc

National Instruments Corporation

Meggitt PLC

Banner Engineering Corp.

SKF Group

Advantech Co., Ltd.

Fluke Corporation

The detailed segments and sub-segment of the market are explained below:

By Technology

Vibration Analysis

Acoustic Analysis

Temperature Monitoring

Electrical Monitoring

Oil Analysis

By Application

Electric Motors

Induction Motors

Stepper Motors

DC Motors

Servo Motors

By Industry Vertical

Oil & Gas

Power Generation

Manufacturing

Automotive

Aerospace & Defense

By Deployment Model

On-Premise

Cloud-Based

By Sensor Type

Vibration Sensors

Acoustic Sensors

Temperature Sensors

Electrical Sensors

Oil Sensors

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of MEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

Companies Mentioned

Siemens AG

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