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Motor Monitoring Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Offering (Hardware, Software, Services), By Monitoring Process (Online Monitoring, Offline Monitoring), By End-Use Industry (Oil & Gas, Power Generation, Water & Wastewater, Metals & Mining, Others), By Region & Competition, 2020-2030F

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Abstracts

Market Overview

The Global Motor Monitoring Market was valued at USD 2.91 billion in 2024 and is projected to reach USD 5.33 billion by 2030, growing at a CAGR of 10.46% during the forecast period. The market is experiencing notable expansion as industries increasingly prioritize operational efficiency, predictive maintenance, and asset reliability. Electric motors, being integral to manufacturing and process operations, are now monitored in real time to prevent failures, reduce downtime, and extend lifespan. Key industries—including oil & gas, power generation, water treatment, automotive, and manufacturing—are integrating motor monitoring systems to ensure productivity and minimize disruptions. The integration of IIoT, AI, and advanced data analytics is transforming conventional monitoring into intelligent, predictive platforms that enhance decision-making and operational planning. This technological evolution is driving a shift from reactive to proactive maintenance strategies, amplifying the demand for scalable, efficient monitoring solutions across global industrial environments.

Key Market Drivers

Increasing Focus on Predictive Maintenance

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Predictive maintenance has emerged as a vital approach for industries operating motor-dependent systems, offering the ability to forecast faults before they escalate into costly breakdowns. By continuously monitoring key performance parameters like vibration, temperature, and power consumption, organizations can reduce unplanned downtime, optimize maintenance schedules, and extend asset lifespans. Studies show that up to 60% of equipment failures are preventable through predictive technologies, while maintenance costs can be lowered by 30% and equipment lifespan increased by 25%. With around 40 million electric motors in industrial use globally, the potential for efficiency improvements is substantial. The integration of AI and machine learning into motor monitoring platforms enhances fault detection and enables more accurate predictive models. As industries intensify their focus on reliability and cost optimization, the role of predictive maintenance in driving demand for motor monitoring systems continues to grow.

Key Market Challenges

High Initial Investment and Deployment Costs

A major constraint for the widespread adoption of motor monitoring systems is the high upfront cost, which can deter small and mid-sized enterprises. The expense of hardware components such as sensors, transducers, and communication units, coupled with the cost of integrating these systems into legacy SCADA, ERP, or DCS infrastructures, makes initial deployment capital-intensive. For many organizations, particularly in budget-conscious industries, return on investment may not materialize immediately, slowing implementation. Retrofitting older facilities further adds to cost and complexity. In addition, cloud-based or edge analytics platforms involve ongoing subscription and maintenance fees, while personnel training and reliance on external service providers create further financial and operational burdens. These challenges are especially pronounced in developing regions or remote installations where infrastructure and technical support are limited. As a result, the high cost of adoption remains a key hurdle to broader market penetration, despite the long-term operational benefits.

Key Market Players

ABB Ltd.

Siemens AG

General Electric

Schneider Electric

Rockwell Automation

Emerson Electric Co.

Honeywell International Inc.

Mitsubishi Electric Corporation

Nidec Corporation

Bosch Rexroth AG

Report Scope:

In this report, the Global Motor Monitoring Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Motor Monitoring Market, By Offering:

Hardware

Software

Services

Motor Monitoring Market, By Monitoring Process:

Online Monitoring

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- Offline Monitoring

Motor Monitoring Market, By End-Use Industry:

- Oil & Gas
- Power Generation
- Water & Wastewater
- Metals & Mining
- Others

Motor Monitoring Market, By Region:

- North America
  - United States
  - Canada
  - Mexico
- Europe
  - Germany
  - France
  - United Kingdom
  - Italy
  - Spain
- South America
  - Brazil

Argentina

Colombia

Asia-Pacific

China

India

Japan

South Korea

Australia

Middle East & Africa

Saudi Arabia

UAE

South Africa

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Motor Monitoring Market.

Available Customizations:

Global Motor Monitoring Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

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Detailed analysis and profiling of additional market players (up to five).

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