

# Global Vibration Measurement Software Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Vibration Measurement Software market size is expected to reach \$ 1022 million by 2032, rising at a market growth of 5.7% CAGR during the forecast period (2026-2032).

Vibration measurement software is a digital tool that captures, analyzes, and interprets vibration data from machinery and structures to diagnose health, predict failures, and optimize maintenance, using sensors to detect patterns indicating issues like imbalance, misalignment, or bearing faults, crucial for predictive maintenance in industries relying on rotating equipment. The gross profit margin is relatively high, typically between 60% and 80%.

Vibration measurement software is mainly used for equipment condition monitoring, fault diagnosis, and predictive maintenance, and serves as a core component of industrial digitalization and intelligent maintenance systems. The upstream segment is supported by algorithm fundamentals, signal processing theory, operating systems, databases, middleware, and the ecosystem of sensors and data acquisition hardware, with value largely driven by technological maturity and computing environments rather than raw materials. The downstream segment is the key area for value realization and shows wide coverage with clear differentiation in demand. Manufacturing is the most important downstream sector, particularly for motors, pumps, compressors, machine tools, and production lines, where users focus on early fault detection, reduced downtime risk, and maintenance cost optimization. The energy and power industry has a high dependence on vibration measurement software, with wind, thermal, and nuclear power emphasizing long-term continuous monitoring, data reliability, and remote operation capabilities. Petrochemical and metallurgical industries prioritize stability and safety compliance under complex operating conditions. Rail transit, aerospace, and

automotive testing applications place greater emphasis on high-precision analysis, test data management, and compliance with standards. Research institutes and universities value algorithm flexibility and data scalability. Overall, downstream users place strong importance on compatibility with existing equipment and systems, analytical accuracy, and long-term service and upgrade support.

In terms of development trends, vibration measurement software is moving toward cloud-based, platform-oriented, and intelligent solutions, with artificial intelligence increasingly integrated into fault feature extraction and remaining life prediction, shifting from standalone analysis tools to comprehensive condition monitoring and asset management platforms. Key drivers include the continuous growth of installed industrial equipment, rising demand for predictive maintenance and cost reduction, and the development of industrial internet and digital twin technologies. Major constraints include the high cost of acquiring high-quality vibration data, strong dependence of algorithms on industry-specific experience, varying levels of user awareness and capability, and increased implementation complexity due to data security and compliance requirements.

This report studies the global Vibration Measurement Software demand, key companies, and key regions.

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

## **Highlights and key features of the study**

Global Vibration Measurement Software total market, 2021-2032, (USD Million)

Global Vibration Measurement Software total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Vibration Measurement Software total market, key domestic companies, and share, (USD Million)

Global Vibration Measurement Software revenue by player, revenue and market share 2021-2026, (USD Million)

Global Vibration Measurement Software total market by Type, CAGR, 2021-2032, (USD Million)

Global Vibration Measurement Software total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Vibration Measurement 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 Siemens Digital Industries Software, Hottinger Br?el & Kj?r (HBK), Dewesoft, National Instruments (NI), m+p international, OROS, Prosig, Crystal Instruments, Vibration Research, imc Test & Measurement, 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 Vibration Measurement 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 Vibration Measurement Software Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Vibration Measurement Software Market, Segmentation by Type:

Accelerometer Signal

Velocity Signal

Displacement Signal

Hybrid

Others

#### Global Vibration Measurement Software Market, Segmentation by Deployment Method:

Desktop

Mobile

Web/Cloud

Embedded Software

Others

#### Global Vibration Measurement Software Market, Segmentation by Number of Channels:

1 Channel

2-8 Channels

8-64 Channels

More than 64 Channels

### Global Vibration Measurement Software Market, Segmentation by Application:

Industrial Equipment

Automotive

Aerospace

Construction

Power Equipment

### Companies Profiled:

Siemens Digital Industries Software

Hottinger Br?el & Kj?r (HBK)

Dewesoft

National Instruments (NI)

m+p international

OROS

Prosig

Crystal Instruments

Vibration Research

imc Test & Measurement

Vibrant Technology

SpectraQuest

MathWorks

Baker Hughes (Bently Nevada)

Emerson

SKF

PRUFTECHNIK (Fluke Reliability)

Acoem

Schaeffler

Petasense

Augury

RDI Technologies

#### Key Questions Answered

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

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