

Global Loose Parts Monitoring System Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Loose Parts Monitoring System market size was valued at US\$ 191 million in 2025 and is forecast to a readjusted size of US\$ 283 million by 2032 with a CAGR of 5.6% during review period.

A Loose Parts Monitoring System (LPMS) is an online condition monitoring system used in nuclear power plants and other large industrial equipment. It is primarily used to detect impact events caused by component detachment, wear, breakage, or foreign object intrusion within pressure boundaries or critical equipment in real time, preventing damage to equipment safety and operational reliability caused by loose parts. The system typically uses acoustic sensors, accelerometers, and data acquisition devices installed in critical areas such as reactor coolant systems, steam generators, main pipelines, and pressure vessels to collect vibration and sound wave signals generated by impacts. Combined with digital signal processing, pattern recognition, and intelligent diagnostic algorithms, it analyzes and locates the foreign object's position, impact energy, and potential risks. LPMS is widely used in nuclear power plants, research reactors, and other high-safety-level industrial facilities, and is an important component of nuclear power condition monitoring and preventative maintenance systems. It helps operators promptly identify potential equipment problems, reducing the risk of unplanned downtime and major equipment damage. With the development of artificial intelligence, big data analytics, and digital twin technologies, LPMS is continuously upgrading towards intelligence, high precision, online diagnostics, and remote monitoring.

The global Loose Parts Monitoring System market has maintained steady growth due to increasing safety requirements for nuclear power units, life extension retrofitting of aging

nuclear power plants, and upgrades in condition monitoring technology. Demand primarily comes from new nuclear power plant projects, upgrades of existing units, research reactors, and other high-safety-level industrial facilities. Regionally, North America and Europe, with their mature nuclear power industries and comprehensive equipment condition monitoring systems, maintain a leading position in online monitoring, intelligent diagnostics, and preventative maintenance. The Asia-Pacific region, driven by continuous growth in nuclear power capacity and increasing demand for domestically produced equipment and digital operation and maintenance, has become the fastest-growing market. Other emerging nuclear energy countries are also gradually increasing their demand for critical safety monitoring systems as nuclear power projects are constructed. Currently, the industry is moving towards intelligent, digital, and integrated online monitoring. Artificial intelligence, machine learning, digital twins, big data analytics, edge computing, and high-sensitivity sensing technologies are increasingly being applied to anomaly signal identification and fault prediction, improving detection accuracy and reducing false alarm rates. At the same time, the industry still faces challenges such as stringent nuclear safety standards, long product certification cycles, high difficulty in signal identification under complex operating conditions, high system integration costs, and a shortage of skilled professionals. Retrofitting of aging units and multi-system compatibility issues also increase implementation difficulty. In the future, with the extension of nuclear power plant life, the construction of small modular reactors (SMRs) and the development of smart nuclear power, the market for loose component detection systems is expected to maintain steady growth. The industry's average gross profit margin is usually maintained between 30% and 45%. High-end online monitoring platforms, intelligent diagnostic software and full life cycle operation and maintenance services have high added value and profitability.

This report is a detailed and comprehensive analysis for global Loose Parts Monitoring System market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Loose Parts Monitoring System market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Loose Parts Monitoring System market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Loose Parts Monitoring System market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Loose Parts Monitoring System market shares of main players, in revenue (\$ Million), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries

- To assess the growth potential for Loose Parts Monitoring System

- To forecast future growth in each product and end-use market

- To assess competitive factors affecting the marketplace

This report profiles key players in the global Loose Parts Monitoring System 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 ?conplatec GmbH, ?Framatome, Kistler, ?Meggitt Sensing Systems, MISTRAS Group, Numerical Advisory Solutions, Westinghouse Electric Company, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

Loose Parts Monitoring System market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Acoustic Monitoring System

Vibration Monitoring System

Accelerometer-Based Monitoring System

Others

Market segment by Deployment

Fixed Online Monitoring System

Distributed Monitoring System

Market segment by Application

Reactor Pressure Vessel

Steam Generator

Main Coolant Piping

Others

Market segment by players, this report covers

?conplatec GmbH

?Framatome

Kistler

?Meggitt Sensing Systems

MISTRAS Group

Numerical Advisory Solutions

Westinghouse Electric Company

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Loose Parts Monitoring System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Loose Parts Monitoring System, with revenue, gross margin, and global market share of Loose Parts Monitoring System from 2021 to 2026.

Chapter 3, the Loose Parts Monitoring System competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Loose Parts Monitoring System market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Loose Parts Monitoring System.

Chapter 13, to describe Loose Parts Monitoring System research findings and conclusion.

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