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Machine Health Monitoring Market by Product (vibration monitoring, thermography, ultrasound emission, lubricating oil analysis, corrosion monitoring, motor current signature analysis), Component, Application and Geography – Global Forecast to 2014 - 2020

https://marketpublishers.com/r/M2A92253173EN.html
Date: June 2014
Pages: 321
Price: US$ 5,650.00 (Single User License)
ID: M2A92253173EN

Abstracts

Machine health monitoring is the best way of maintenance to meet the production requirements of in a timely or efficient manner. It is the process of monitoring the health of a machine with the intent to anticipate the mechanical wear and failure. Machine health monitoring is a part of predictive maintenance technique. The machine health monitoring market has a broad scope in the industry. This market is important as it projects the condition of machinery, which ensures the right maintenance is provided at the right time. Machine health monitoring provides sensory indication that components are functioning under rated capacity and provide a suitable warning if the preset standard conditions and indices are exceeded.

The Machine Health Monitoring market is segmented in terms of product type such as corrosion monitoring equipment, lubricating oil analysis equipment, motor current signature analysis, thermography equipment, ultrasound emission equipment, and vibration monitoring equipment. The report is further segmented into component type such as corrosion probes, spectrometer, spectrum analyzer, thermal camera, ultrasonic detector, vibration sensor, and others (software) used in machine health monitoring market. Also, the Machine Health Monitoring report is segmented by application such as aerospace and defense, automotive, chemicals, marine, mining, oil and gas, and Power. The report also provides geographic analysis and estimation for markets across the Americas, Europe, APAC, and the ROW.

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The report includes the detailed value chain analysis of the machine health monitoring industry. It also provides the Porter's Five Forces Analysis with description of each of its forces and their respective impact on the market. The companies included in this report are: AZIMA DLI Corp. (U.S.), Bruel & Kjaer Vibro GmbH (Denmark), Emerson Process Management (U.S.), Fluke Corp. (U.S.), GE (U.S.), Honeywell Process Solution (U.S.), National Instruments (U.S.), Parker Kittiwake (U.K.), Rockwell Automation Inc. (U.S.), SKF (Sweden) and more.

Key Takeaways

The total revenue of the Machine Health Monitoring market is expected to grow at an estimated CAGR of 7.16% from 2014-2020

Analysis of the global market with special focus on high growth applications in each verticals and fast growing market segments

Statistics by component, product type, application type, and geography, with a detailed classification splits by revenue

Porter's analysis in detail along with the impact

Major market trends, drivers, restraints, and opportunities for the Machine Health Monitoring market

Illustrative segmentation, analysis, and forecast of the major geographic markets to give an overall view of the Machine Health Monitoring market

The future of Machine Health Monitoring market from technical as well as market oriented perspectives

Detailed competitive landscape with identification of the key players with in-depth market share analysis including individual revenue, and market share rankings.

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About

Machine health monitoring is a procedure in predictive maintenance which deals with preventing an impending failure. It provides the manufacturing unit with the capability for improved production rate by eliminating machinery downtime and reducing the maintenance and operational costs. Operational equipment is susceptible to many types of errors and faults. Therefore, it becomes important to monitor changes in equipment with respect to certain parameters like vibration, temperature, voltage, current, pressure, flow, and several other parameters. The advantage of fault diagnosis using machine health monitoring is that it alerts the maintenance personnel about an impending failure so that he can take a corrective action to avoid it. Thus, it prevents an unplanned outage and production loss, reduces the repair costs, and increases the safety of machinery and people.

The need for mechanism to predict equipment failures, achieving reduction in frequency and severity of outages, maximizing the component life and equipment performance through effective scheduling of maintenance programs are some of the drivers accelerating the growth of the machine health monitoring market. Some of the other drivers for this market are ensuring the safety of people and machinery, and the reducing costs of machine health monitoring equipment. Some of the concerns for this market could be, the unpredictable nature of maintenance schedules, gaining return on investments on the installation of machine health monitoring systems, and the possibility of requiring asset modifications to accommodate machine health monitoring sensors.

In this report, global machine health monitoring market is broadly classified on the basis of products, components, industry verticals, and geography. The product segment comprises of corrosion monitoring equipment, lubricating oil analysis equipment, motor current signature analysis, thermography equipment, ultrasound emission equipment, and vibration monitoring equipment. Among different products, vibration monitoring equipment is widely used in industries. The global machine health monitoring market by component comprises of accelerometer, eddy current sensor, IR (Infrared) detector, proximity probes, tachometer, ultrasound detector and others.

The major industry verticals where machine health monitoring is being employed include aerospace and defense, automotive, chemicals, marine, mining, oil & gas, and power. The market is also categorized into four major geographic regions, namely North America, Europe, APAC, and RoW.

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This report also presents a detailed overview of the overall machine health monitoring market by enveloping all the major market segments, with a detailed qualitative analysis at each and every phase of segmentation. All the numbers are forecast from 2014 till 2020, to give the glimpse of the potential revenue in this market within this period.

The major players in the global machine health monitoring market are Emerson Process Management (U.S.), Parker Hannifin Corporation (U.S.), General Electric Company (U.S.), Rockwell Automation (U.S.), SKF (Sweden), Bruel & Kaejr (Denmark), Honeywell (U.S.), and National Instruments (U.S.) among others.

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