Machine Condition Monitoring Market by Monitoring Type, Components, Monitoring Process, Applications, and Geography - Global Trend & Forecast to 2020

Description:

Machines fail due to a variety of reasons such as mechanical wear & tear, corrosion, surface degradation, and so on. Most of the machines after a certain amount of time start showing signs of slight deterioration due to the above mentioned causes, which if identified in advance, can help machine operators and enterprises, plan their predictive maintenance.

For predicting and preventing the above mentioned machine and equipment failures, machine health monitoring is one of the most effective predictive maintenance tools. Faults in a machine can be found with the help various monitoring processes such as vibration monitoring, thermography, lubricant oil analysis, and so on.

The global machine condition monitoring equipment market is expected to grow at a CAGR of 7.6% between 2015 and 2020 from USD 1,544.0 Million in 2014 to USD 2.45 Billion by 2020. This report on machine condition monitoring analyzes the machine health monitoring value chain, giving a very clear insight of all major and supporting segments to the industry. The market has been segmented by monitoring type, component, monitoring process and different application areas along with market size projections in terms of value.

This report also analyzes the current market trends and technologies in the condition monitoring equipment market along with an in-depth study of market dynamics such as drivers, restraints, and opportunities and challenges.

The report also identifies drivers, restraints, opportunities, current market trends, and burning issues of the global machine condition monitoring equipment market. Apart from the market segmentation, the report also includes the critical market data and qualitative information for each products type along with qualitative analysis such as Porter's five force analysis, market timeline analysis, market investment analysis, industry breakdown analysis, and value chain analysis.

The machine condition monitoring market report highlights key technological developments in recent times which are pushing the adoption of machine health monitoring in predictive maintenance. It also profiles some of the leading players in these markets and analyzes their key strategies. The competitive landscape section of the report provides a clear insight into the market share analysis of key players.

Major players in the machine condition monitoring equipment market are Azima DLI Corp. (U.S.), Bruel & Kjaer Sound & Vibration Measurement A/S (Denmark), Emerson Process Management (U.S), General Electric Company (U.S.), Honeywell International, Inc. (U.S.), Parker Hannifin (U.S.), National Instruments Corporation (U.S.), Rockwell Automation, Inc. (U.S.), SKF (Sweden), and FlIR Systems (U.S.).

Market, by Monitoring Type:

The machine condition monitoring equipment market by monitoring type can be segmented into vibration monitoring, ultrasonic inspection, infrared thermography, lubricant oil analysis, (MCSA)

Market, by Component:

The machine condition monitoring equipment market, by component includes vibration sensors, ultrasonic detector, IR sensors, spectrometer, corrosion probes, spectrum analyzers, and others.

Market, by Application:

The machine condition monitoring equipment market considers various aspects of application segments and divided into aerospace & defense, automotive, chemicals, marine, metals & mining, oil & gas, energy & power, and others.
Market, by Monitoring Process

The machine condition monitoring equipment market report considers the major monitoring processes, namely, portable condition monitoring, and online condition monitoring.

Market, by Geography:

The report discusses the machine condition monitoring equipment market in four major geographical regions- North America, Europe, Asia-Pacific, and Rest of the World (RoW). The geographical analysis in the report contains the in-depth classification into the U.S., Canada, and Mexico for North America; the U.K., Germany, France, Italy and others for Europe; China, Japan, India, and others for Asia-Pacific; and Latin America, the Middle East & Africa for RoW.

Key Takeaways:
- The global machine condition monitoring market statistics with detailed classifications and splits based on the respective market size.
- Impact analysis of market dynamics, along with the factors currently driving and restraining the growth of the said market, and their impact in the short-, medium-, and long-term
- Illustrative segmentation, analyses, and forecast of the major verticals along with regional markets to provide an overall view of the machine condition monitoring market
- A detailed competitive landscape with identification of key players in the global market and an in-depth market share ranking analysis
- Competitive intelligence based on company profiles, key player strategies, and key developments such as product launches and acquisitions
- A complete value chain analysis of the machine condition monitoring market landscape along with key stakeholders.

Contents:

1 Introduction
1.1 Objectives Of The Study
1.2 Market Definition
1.3 Markets Covered
1.4 Years Considered For The Study
1.5 Currency
1.6 Limitations
1.7 Market Stakeholders

2 Research Methodology
2.1 Research Data
2.1.1 Secondary Data
2.1.1.1 Key Data From Secondary Sources
2.1.2 Primary Data
2.1.2.1 Key Data From Primary Sources
2.1.2.2 Key Industry Insights
2.1.2.3 Breakdown Of Primaries
2.2 Demand-Side Analysis Of The Machine Condition Monitoring Market
2.2.1 Demand-Side Analysis
2.2.1.1 Aging Maintenance Workforce
2.2.1.2 Increase In Automation Boosting The Demand For Machine Condition Monitoring
2.3 Market Size Estimation
2.4 Market Breakdown And Data Trianulation
2.5 Research Assumptions

3 Executive Summary

4 Premium Insights
4.1 Attractive Opportunities In The Global Machine Condition Monitoring Market
4.2 Machine Condition Monitoring Market Growth, By Monitoring Type
4.3 Machine Condition Monitoring Market In Apac, 2014
4.4 Machine Condition Monitoring Market, By Monitoring Process
4.5 Machine Condition Monitoring Market, By Region (2014)
5 Market Overview
5.1 Introduction
5.2 Market Segmentation
5.2.1 Market By Monitoring Type
5.2.2 Market By Component
5.2.3 Market By Monitoring Process
5.2.4 Market By Application
5.2.5 Market By Geography
5.3 Market Dynamics
5.3.1 Drivers
5.3.1.1 Transition From Preventive To Predictive Maintenance In Process Industries
5.3.1.2 The Use Of Wireless Technology In Machine Condition Monitoring
5.3.1.3 Remote Monitoring
5.3.1.4 Growth In The Heating Ventilating And Air Conditioning (Hvac) Market
5.3.1.5 The Growing Demand For Smart Factories
5.3.2 Restraints
5.3.2.1 Unpredictable Maintenance Periods
5.3.2.2 The Need For Asset Modification
5.3.3 Opportunities
5.3.3.1 Industrial Internet Of Things (Iiot)
5.3.3.2 Growth In The Wind Energy Market
5.3.3.3 Condition Monitoring Using Cloud Technology
5.3.4 Challenges
5.3.4.1 Increased Drive To Integrate Condition Monitoring Techniques With Management Systems Such As Pam And Cmms
5.3.5 Burning Issue
5.3.5.1 Online Vs. Offline Conundrum In Machine Condition Monitoring

6 Industry Trends
6.1 Introduction
6.2 Value Chain Analysis
6.3 Industry Trends
6.4 Porter’S Five Forces Analysis
6.4.1 Bargaining Power Of Suppliers
6.4.2 Bargaining Power Of Buyers
6.4.3 Threat Of New Entrants
6.4.4 Threat Of Substitutes
6.4.5 Intensity Of Rivalry

7 Market By Monitoring Type
7.1 Introduction
7.2 Vibration Monitoring
7.3 Ultrasound Emission
7.4 Thermography
7.5 Lubricating Oil Analysis
7.6 Corrosion Monitoring
7.7 Motor Current Signature Analysis

8 Market, By Component
8.1 Introduction
8.2 Vibration Sensors
8.2.1 Accelerometer
8.2.2 Proximity Probes
8.2.3 Tachometer
8.3 Ultrasound Detector
8.4 Infrared Sensors
8.5 Spectrometer
8.6 Corrosion Probes
8.7 Spectrum Analyser
8.8 Others

9 Market, By Application
9.1 Introduction
9.2 Aerospace & Defense  
9.3 Automotive  
9.4 Chemicals  
9.5 Marine  
9.6 Metals & Mining  
9.7 Oil & Gas  
9.8 Energy & Power  
9.9 Others  

10 Market, By Monitoring Process  
10.1 Introduction  
10.2 Portable Condition Monitoring  
10.3 Online Condition Monitoring  

11 Geographic Analysis  
11.1 Introduction  
11.2 North America  
11.3 Europe  
11.4 Apac  
11.5 Row  

12 Competitive Landscape  
12.1 Overview  
12.2 Market Ranking Analysis For The Machine Condition Monitoring Market, 2014  
12.2.1 New Product Launches  
12.2.2 Contracts & Agreements  
12.2.3 Expansions & Partnerships  
12.2.4 Mergers & Acquisitions  

13 Company Profiles (Overview, Products And Services, Financials, Strategy & Development)*  
13.1 Introduction  
13.2 Emerson Process Management  
13.3 General Electric Company  
13.4 Honeywell International Inc.  
13.5 National Instruments Corporation  
13.6 Skf Ab  
13.7 Parker Hannifin Corporation  
13.8 Rockwell Automation, Inc.  
13.9 Brüel & Kjaer Vibro GmbH  
13.10 Azima Dli Corporation  
13.11 Fluke Corporation  
13.12 Saj Engineering And Trading Company  
*Details On Overview, Products And Services, Financials, Strategy & Development Might Not Be Captured In Case Of Unlisted Companies  

14 Appendix  
14.1 Insights Of Industry Experts  
14.2 Discussion Guide  
14.3 Introducing Rt: Real-Time Market Intelligence  
14.4 Available Customizations  
14.5 Related Reports  

List of Tables  
Table 1 Transition From Preventive to Predictive Maintenance is the Key Driver for Growth of the Machine Condition Monitoring Market  
Table 2 Unpredictable Maintenance Periods Resulting in Disturbance in the Original Schedule is the Major Restraint in the Growth of the Market  
Table 3 Industrial Internet of Things (IIoT) is the Key Opportunity in Machine Condition Monitoring Market  
Table 4 The Increased Drive to Integrate Condition Monitoring With Other Management System is the Major Challenge in the Market  
Table 5 Integration of Condition Monitoring Hardware and Services is A Leading Trend Among Key Players  
Table 6 Machine Condition Monitoring Market, By Monitoring Type, USD Million, (2013-2020)  
Table 7 Vibration Monitoring Market, By Monitoring Process, 2013-2020, (USD Million)
Table 8 Vibration Monitoring Market, By Application, 2013-2020 (USD Million)
Table 9 Ultrasound Emission Monitoring Market, By Monitoring Process, 2013-2020, (USD Million)
Table 10 Ultrasound Emission Monitoring Market, By Application, 2013-2020 (USD Million)
Table 11 Thermography Market, By Monitoring Process, 2013-2020 USD Million
Table 12 Thermography Market, By Application, 2013-2020, (USD Million)
Table 13 Lubricating Oil Analysis Market, By Monitoring Process, 2013-2020 (USD Million)
Table 14 Lubricating Oil Analysis Market, By Application, 2013-2020, (USD Million)
Table 15 Corrosion Monitoring Market, By Monitoring Process, 2013-2020 (USD Million)
Table 16 Corrosion Monitoring Market, By Application, 2013-2020 (USD Million)
Table 17 Motor Current Signature Analysis Market, By Monitoring Process, 2013-2020 (USD Million)
Table 18 Motor Current Signature Analysis, By Application, 2013-2020 (USD Million)
Table 19 Machine Condition Monitoring Market, By Component, 2013-2020 (USD Million)
Table 20 Vibration Sensor Market, By Region, 2013-2020 (USD Million)
Table 21 Ultrasound Detector Market, By Region, 2013-2020 (USD Million)
Table 22 Infrared Sensors Market, By Region, 2013-2020 (USD Million)
Table 23 Spectrometer Market, By Region, 2013-2020 (USD Million)
Table 24 Corrosion Probes Market, By Region, 2013-2020 (USD Million)
Table 25 Spectrum Analyser Market, By Region, 2013-2020 (USD Million)
Table 26 Others Market, By Region, 2013-2020 (USD Million)
Table 27 Machine Condition Monitoring Market, By Application, 2013-2020 (USD Million)
Table 28 Aerospace & Defense: Machine Condition Monitoring Market, By Region, 2013-2020 (USD Million)
Table 29 Aerospace & Defense: Market, By Monitoring Process, 2013-2020 (USD Million)
Table 30 Aerospace & Defense: Market, By Monitoring Type, 2013-2020 (USD Million)
Table 31 Automotive: Machine Condition Monitoring Market, By Region, 2013-2020, (USD Million)
Table 32 Automotive: Market, By Monitoring Process, 2013-2020 (USD Million)
Table 33 Automotive: Market, By Monitoring Type, 2013-2020 (USD Million)
Table 34 Chemicals: Machine Condition Monitoring Market, By Region, 2013-2020 (USD Million)
Table 35 Chemicals: Market, By Monitoring Process, 2013-2020 (USD Million)
Table 36 Chemicals: Market, By Monitoring Type, 2013-2020 (USD Million)
Table 37 Marine: Machine Condition Monitoring Market, By Region, 2013-2020 (USD Million)
Table 38 Marine: Market, By Monitoring Process, 2013-2020 (USD Million)
Table 39 Marine: Market, By Monitoring Type, 2013-2020 (USD Million)
Table 40 Metals & Mining: Machine Condition Monitoring Market, By Region, 2013-2020, (USD Million)
Table 41 Metals & Mining: Market, By Monitoring Process, 2013-2020 (USD Million)
Table 42 Metals & Mining: Market, By Monitoring Type, 2013-2020 (USD Million)
Table 43 Oil & Gas: Machine Condition Monitoring Market, By Region, 2013-2020, (USD Million)
Table 44 Oil & Gas: Market, By Monitoring Process, 2013-2020 (USD Million)
Table 45 Oil & Gas: Market, By Monitoring Type, 2013-2020 (USD Million)
Table 46 Energy & Power: Machine Condition Monitoring Market, By Region, 2013-2020 (USD Million)
Table 48 Energy & Power: Market, By Monitoring Type, 2013-2020 (USD Million)
Table 49 Others: Machine Condition Monitoring Market, By Region, 2013-2020 (USD Million)
Table 50 Others: Market, By Monitoring Process, 2013-2020 (USD Million)
Table 51 Others: Market, By Monitoring Type, 2013-2020 (USD Million)
Table 52 Machine Condition Monitoring Market, By Monitoring Process, 2013-2020 (USD Million)
Table 53 Portable Condition Monitoring Market, By Monitoring Type, 2013-2020 (USD Million)
Table 54 Portable Condition Monitoring Market, By Application, 2013-2020 (USD Million)
Table 55 Portable Condition Monitoring Market, By Region, 2013-2020 (USD Million)
Table 56 Online Condition Monitoring Market, By Monitoring Type, 2013-2020, (USD Million)
Table 57 Online Condition Monitoring Market, By Application, 2013-2020 (USD Million)
Table 58 Online Condition Monitoring Market, By Region, 2013-2020 (USD Million)
Table 59 Market, By Region, 2013-2020 (USD Million)
Table 60 North America: Machine Condition Monitoring Market, By Country, 2013-2020 (Million USD)
Table 61 North America: Market, By Monitoring Process, 2013-2020 (USD Million)
Table 62 North America: Market, By Application, 2013-2020 (USD Million)
Table 63 Europe: Machine Condition Monitoring Market, By Country, 2013-2020 (USD Million)
Table 64 Europe: Market, By Monitoring Process, 2013-2020 (USD Million)
Table 65 Europe: Market, By Application, 2013-2020 (USD Million)
Table 66 APAC: Machine Condition Monitoring Market, By Country, 2013-2020 (USD Million)
Table 67 APAC: Market, By Monitoring Process, 2013-2020 (USD Million)
Table 68 APAC: Market, By Application, 2013-2020 (USD Million)
Table 69 RoW: Machine Condition Monitoring Market, By Country, 2013-2020 (USD Million)
Table 70 RoW: Market, By Monitoring Process, 2013-2020 (USD Million)
Table 71 RoW: Market, By Application, 2013-2020 (USD Million)
Table 72 New Product Launches, 2014-2015
Table 73 Contracts & Agreements, 2012-2013
Table 74 Expansions & Partnerships, 2012-2013
Table 75 Merger & Acquisitions

List of Figures
Figure 1 Machine Condition Monitoring: Research Design
Figure 2 Machine Condition Monitoring Equipment Sales, 2002-2009
Figure 3 Market Size Estimation: Bottom-Up Approach
Figure 4 Market Size Estimation: Top-Down Approach
Figure 5 Market Breakdown & Data Triangulation
Figure 6 Aerospace & Defense is Estimated to Grow Rapidly During the Forecast Period
Figure 7 Vibration Monitoring Expected to Remain the Most Used Monitoring Type By 2020
Figure 8 Online Monitoring Expected to Witness High Growth Rate During the Forecast Period
Figure 9 Asia-Pacific Expected to Witness Highest Growth in the Market During the Forecast Period
Figure 10 Real-Time Monitoring is the Key to Gain Competitive Advantage
Figure 11 Vibration Monitoring Expected to Account for Largest Share During the Forecast Period
Figure 12 China Held the Largest Share of the Machine Condition Monitoring Market in APAC
Figure 13 Online Condition Monitoring Expected to Grow at the Highest CAGR During the Forecast Period
Figure 14 North America Had the Largest Market for Both Portable and Online Condition Monitoring in 2014
Figure 15 Transition From Preventive to Predictive Maintenance A Major Growth Driver of the for Machine Condition Monitoring Market
Figure 16 Machinery Equipment Condition During Process Flow
Figure 17 Remote Monitoring of A Machine
Figure 18 Cloud Technology in Machine Condition Monitoring
Figure 19 Value Chain Analysis
Figure 20 Porter's Five Forces Analysis
Figure 21 Porter's Five Forces Impact Analysis, 2014
Figure 22 Bargaining Power of Suppliers in the Machine Condition Monitoring Market, 2014
Figure 23 Bargaining Power of Buyers in the Market, 2014
Figure 24 Threat of New Entrants in the Machine Condition Monitoring Market, 2014
Figure 25 Threat of Substitutes in the Market, 2014
Figure 26 Intensity of Rivalry in the Market, 2014
Figure 27 Machine Condition Monitoring, By Monitoring Type
Figure 28 Vibration Monitoring is Expected to Occupy Largest Market in 2015
Figure 29 Online Condition Monitoring is A Widely Used Process for Ultrasound Emission Monitoring
Figure 30 Motor Current Signature Analysis is Expected to Register Highest Growth in Aerospace & Defense Machine Condition Monitoring Market – Global Trend & Forecast to 2020 Global Forecast to 200
Figure 31 Machine Condition Market, By Component
Figure 32 Vibration Sensor is Estimated to Be the Major Component Used in Machine Condition Monitoring Equipment During the Forecast Period
Figure 33 Market, By Application
Figure 34 The Market for Aerospace & Defense is Expected to Grow at the Highest Growth Rate During the Forecast Period
Figure 35 Online Condition Monitoring to Exhibit Promising Growth in the Automotive Sector During the Forecast Period
Figure 36 Marine Condition Monitoring in Asia-Pacific is Expected to Grow at the Highest Rate During the Forecast Period
Figure 37 North America is the Largest Market for the Condition Monitoring Equipment in the Energy & Power Sector
Figure 38 Online Condition Monitoring is A Widely Adopted Monitoring Process By End Users
Figure 39 Aerospace & Defense to Exhibit A High Growth Potential for Online Condition Monitoring Market During the Forecast Period
Figure 40 Machine Condition Monitoring Market Snapshot Between 2015 and 2020
Figure 41 North America: Market Snapshot
Figure 42 Europe: Market Snapshot
Figure 43 APAC: Market Snapshot
Figure 44 RoW Market Snapshot
Figure 45 Companies Adopted New Product Development as the Key Growth Strategy
Figure 46 Total Revenue Growth of Major Players in Condition Monitoring (2012-2014)
Figure 47 Battle for Market Share: New Product Launch Was the Key Strategy
Fax Order Form
To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit http://www.researchandmarkets.com/contact/

Order Information
Please verify that the product information is correct and select the format(s) you require.

<table>
<thead>
<tr>
<th>Product Name:</th>
<th>Machine Condition Monitoring Market by Monitoring Type, Components, Monitoring Process, Applications, and Geography - Global Trend &amp; Forecast to 2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Web Address:</td>
<td><a href="http://www.researchandmarkets.com/reports/3493625/">http://www.researchandmarkets.com/reports/3493625/</a></td>
</tr>
<tr>
<td>Office Code:</td>
<td>SCBRUSQJ</td>
</tr>
</tbody>
</table>

Product Formats
Please select the product formats and quantity you require:

<table>
<thead>
<tr>
<th>Quantity</th>
<th>USD 5650</th>
<th>USD 6650</th>
<th>USD 8150</th>
<th>USD 10000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronic (PDF) - Single User:</td>
<td>✔️</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electronic (PDF) - 1 - 5 Users:</td>
<td></td>
<td>✔️</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electronic (PDF) - Site License:</td>
<td></td>
<td></td>
<td>✔️</td>
<td></td>
</tr>
<tr>
<td>Electronic (PDF) -企resisewide:</td>
<td></td>
<td></td>
<td></td>
<td>✔️</td>
</tr>
</tbody>
</table>

Contact Information
Please enter all the information below in **BLOCK CAPITALS**

<table>
<thead>
<tr>
<th>Title:</th>
<th>Mr ☐</th>
<th>Mrs ☒</th>
<th>Dr ☐</th>
<th>Miss ☐</th>
<th>Ms ☐</th>
<th>Prof ☐</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Name:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Email Address: *</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Job Title:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Organisation:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Address:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>City:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Postal / Zip Code:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Country:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phone Number:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fax Number:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)
Payment Information
Please indicate the payment method you would like to use by selecting the appropriate box.

☐ Pay by credit card: You will receive an email with a link to a secure webpage to enter your credit card details.

☐ Pay by check: Please post the check, accompanied by this form, to:
Research and Markets,
Guinness Center,
Taylors Lane,
Dublin 8,
Ireland.

☐ Pay by wire transfer: Please transfer funds to:
Account number 833 130 83
Sort code 98-53-30
Swift code ULSBIE2D
IBAN number IE78ULSB98533083313083
Bank Address Ulster Bank,
27-35 Main Street,
Blackrock,
Co. Dublin,
Ireland.

If you have a Marketing Code please enter it below:

Marketing Code:

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp