Manufacturing Execution System Market by Deployment Type, Process Industry (Chemicals, Food & Beverages, Life Science, Oil & Gas, Power), Discrete Industry (Aerospace & Defense, Automotive, Medical Devices) and by Region - Global Forecast to 2020

Description: A manufacturing execution system helps in tracking real-time data in manufacturing processes, thereby supporting a standardized and integrated method of process tracking. MES is used in various process and discrete industries including food and beverages, life sciences, and automotive sectors; however, with further advancement in the technology, it is now being implemented in other areas such as semiconductor and metal & mining. The application areas of manufacturing execution systems are scheduling, resource allocation, production, product tracking, labor management, and quality analysis among others.

The report includes a brief description of the factors driving and restraining the market as well as its opportunities and challenges. The factors driving the market include the increasing requirement for cloud-based MES, paperless operations, real-time data analysis, and regulatory compliance. The high investment required for the adoption of MES and need to improve MES software in longer run is expected to add additional costs to MES software are the factors restraining the growth of the manufacturing execution system market. The acceptance from operator before MES implementation acts as a major challenge for the market.

The report also provides the geographic view for major regions including North America, Europe, Asia-Pacific (APAC), and Rest of the World (RoW). On the basis of geography, North America led the manufacturing execution system market, and it is expected to grow at a CAGR of ~9% between 2015 and 2020. The manufacturing execution system market in APAC is expected to grow at the highest CAGR of ~13% between 2015 and 2020. The rising number of established manufacturing industries and SMEs (Small and Medium Enterprises) in China and India is propelling the growth of the manufacturing execution system market in this region. APAC represents a huge opportunity for manufacturing execution systems as companies in this region have started realizing the benefits of MES software in applications including life sciences, power, and automotive. The market for discrete industry applications in Asia-Pacific expected to grow at a high CAGR of ~15% between 2015 and 2020.

North America accounted for a high market share of ~30% in 2014; the market in the U.S. is expected to grow at a high CAGR of ~10% between 2015 and 2020. The growing industry applications such as food and beverages, automotive, and life sciences are expected to enable North America to sustain its market leadership. The major players involved in the development of manufacturing execution systems include ABB Ltd. (Switzerland), Andea Solutions (Poland), Dassault Systemes SA (France), Emerson Electric Co. (U.S.), General Electric Co. (U.S.), Honeywell International Inc. (U.S.), Rockwell Automation, Inc. (U.S.), SAP AG (Germany), Schneider Electric SE (France), Siemens AG (Germany), and Werum IT Solutions GmbH (Germany).

Key Takeaways:
- The total market in terms of value for the manufacturing execution system market is expected to grow at an estimated CAGR of ~10% between 2015 and 2020.
- This report includes the market statistics pertaining to process industry, discrete industry, deployment type, and region, along with their respective market size.
- The Porter’s Five Forces framework has been utilized along with the value chain analysis to provide an in-depth insight into the manufacturing execution system market.
- Major market drivers, restraints, and opportunities for the manufacturing execution system market have been detailed in this report.
- An illustrative segmentation, analysis, and forecast has been undertaken for the market on the basis of major process industry, discrete industry, deployment type, and region, to provide an overall view of the manufacturing execution system market.
- A detailed competitive landscape has been included that gives an insight into the key players in the market, in-depth analysis of their strategies for growth, and the revenues of the individual companies.
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