

# **Manufacturing Execution Systems Market by Offering (Software, Services), Deployment (On-premises, On-demand, Hybrid), Process Industry (Oil & Gas, Pharmaceuticals & Life Sciences), Discrete Industry (Automotive, Aerospace) - Global Forecast to 2029**

<https://marketpublishers.com/r/MC90AF22E89EN.html>

Date: January 2024

Pages: 234

Price: US\$ 4,950.00 (Single User License)

ID: MC90AF22E89EN

## **Abstracts**

The manufacturing execution systems market is expected to reach USD 23.0 billion by 2029 from USD 14.9 billion in 2024, at a CAGR of 9.2% from 2024–2029. The growth of this market is attributed to the Increasing implementation of industrial automation in process and discrete industries and increasing demand for operational efficiency, increasing demand for high operational efficiency, and increasing complexity of manufacturing processes.

“On-premises deployment segment is to hold the largest market share of manufacturing execution systems market in 2023.”

The on-premises model enables manufacturers to host applications within the office premises. Unlike the on-demand model, the on-premises model is dedicated to only one organization. In this deployment type, the user must bear the cost of purchasing and maintaining the software and infrastructure. It offers hosted services to a limited number of people within a firewall, thereby minimizing security concerns. On-premises deployment is often chosen when organizations prefer to maintain direct control over their IT infrastructure and data, have specific security or compliance requirements, or need to integrate the MES system tightly with other on-premises systems.

“Dairy product segment of food & beverages industry is to grow at the highest growth rate during the forecast period.”

The dairy industry is one of the industries with a high demand for processed products as these are perishable and require proper storage and safety. Preserving milk includes the preservation of milk components, such as fats, milk solids, and cream, among others. The adoption of manufacturing execution systems in the dairy industry helps to integrate various processes, right from milk processing to its delivery, while meeting safety compliances. MES ensures precision in batch management, overseeing accurate ingredient measurements and recipe adherence for products like cheese and yogurt. Quality management is elevated through continuous monitoring of parameters such as temperature and acidity, with traceability and lot tracking guaranteeing the safety and quality of dairy items.

“North America holds the largest market share of manufacturing execution systems market in 2023.”

North America comprises the US, Canada, and Mexico. The rising demand for manufacturing execution systems in sectors such as pharmaceutical & life sciences, chemical, automotive, and aerospace & defense is expected to support the market growth in North America. Technologically, North America is one of the most advanced markets for manufacturing execution systems due to the presence of prominent system suppliers and manufacturers in this region.

The break-up of the profiles of primary participants:

By Company Type – Tier 1 – 40%, Tier 2 – 25%, and Tier 3 – 35%

By Designation – C-level Executives – 35%, Directors – 40%, and Others – 40%

By Region – North America - 45%, Europe – 15%, Asia Pacific – 35%, and Rest of the World – 5%

Major players in the manufacturing execution systems market include Siemens (Germany), Dassault Systemes (France), SAP (Germany), Rockwell Automation (US), Honeywell International Inc. (US) and others.

## Research Coverage

The report segments the manufacturing execution systems market by Offering, Deployment, Process Industry, Discrete Industry, and Region. The report also

comprehensively reviews drivers, restraints, opportunities, and challenges influencing market growth. The report also covers qualitative aspects in addition to the quantitative aspects of the market.

Reasons to buy the report:

The report will help the market leaders/new entrants with information on the closest approximate revenues for the overall manufacturing execution systems market and related segments. This report will help stakeholders understand the competitive landscape and gain more insights to strengthen their position in the market and plan suitable go-to-market strategies. The report also helps stakeholders understand the market pulse and provides information on key market drivers, restraints, opportunities, and challenges.

The report provides insights on the following pointers:

Analysis of critical drivers (Growing need for mass production and connected supply chain to serve growing population, growing convergence of IT and OT, increasing implementation of industrial automation in both process and discrete industries, growing importance of adhering to regulatory requirements, increasing demand for operational efficiency, and increasing complexity of manufacturing processes.), restraints (necessity for a considerable capital investment and ongoing expenses related to upgrading and maintenance, the complexity of integration MES with pre-existing organizational systems), opportunities (Integration of MES with solutions such as ERP and PLM, substantial implementation of MES in pharmaceuticals & life sciences industry, customized MES solutions to align with the distinctive demands of specific industries, and adoption of MES in small and medium-sized enterprises (SMEs)), challenges (complexities in deployment of MES in various industries due to the existing complex hardware infrastructure, and data security concerns in manufacturing industry) influencing the growth of the manufacturing execution systems market.

**Product Development/Innovation:** Detailed insights on upcoming technologies, research and development activities, and new product launches in the manufacturing execution systems market.

**Market Development:** Comprehensive information about lucrative markets – the report analyses the manufacturing execution systems market across various

regions.

**Market Diversification:** Exhaustive information about new products, untapped geographies, recent developments, and investments in the manufacturing execution systems market.

**Competitive Assessment:** In-depth assessment of market shares, growth strategies, and product offerings of leading players like Siemens (Germany), Dassault Systemes (France), SAP (Germany), Rockwell Automation (US), and Honeywell International Inc. (US).

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