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Manufacturing Execution System Market by Deployment Mode (On-premises, Cloud, Hybrid), Application (Production Management, Quality Management, Material and Inventory Management, Maintenance Management, Performance Analysis) - Global Forecast to 2030

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Abstracts

With a CAGR of 10.1%, the worldwide Manufacturing execution systems market is expected to rise from USD 15.95 billion in 2025 to USD 25.78 billion in 2030. Primary growth drivers are the growing adoption of Industry 4.0, smart factories, and real-time data integration to improve production efficiency. MES solutions automate manufacturing operations by maximizing resource utilization, ensuring regulatory compliance, and enhancing quality control. Increasing demand from the automotive, pharmaceutical, aerospace, and electronics industries continues to drive market growth. In addition, the shift towards cloud-based MES and the integration of AI, IoT, and big data analytics are transforming production management, allowing for increased agility and operational intelligence.

'Services segment to maintain largest market share during the forecast period”

Increasing need for integration, and support services is driving the services segment to hold the largest market share in the Manufacturing Execution Systems (MES) market. With industries betting big on digital transformation and automation, companies are keen to have expert help in rolling out MES solutions and seamlessly integrating them with existing enterprise resource planning (ERP) and industrial automation systems. In addition, cloud-based MES has also led to demand for managed services such as remote monitoring, security, and system optimization. MES services are also significant

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because regular software updates, training programs, and compliance support play a crucial role. However, as manufacturers continue emphasizing the importance of real-time data analytics, predictive maintenance, and regulatory adherence, the services segment will remain vital for ensuring MES implementation and keeping operations running efficiently across industries.

'On-premises segment to maintain largest market share during the forecast period”

The on-premises deployment of Manufacturing Execution Systems (MES) will command a largest market share through the forecast period as it excels in ensuring data security, customization, and real-time operational control. Automotive, aerospace, pharmaceuticals, and food & beverages sectors use on-premises MES for enhanced production monitoring, regulatory adherence, and lower downtime. Compared to cloud-based offerings, on-premises MES provides greater control of vital production data and is, therefore, the most sought-after for industries with high data privacy needs. Moreover, the ability to integrate MES with legacy enterprise systems contributes to its use among large-scale production facilities. Although cloud technology is increasingly being adopted, the requirement for high up-front investment and maintenance costs remains a drawback for some organizations. Nevertheless, industries that prioritize operational efficiency, low latency, and secure data processing continue to favor on-premises MES solutions. As businesses strive to enhance production visibility and optimize resources, on-premises MES is expected to remain a mainstream deployment model in the market.

'Pharmaceutical industry expected to grow at highest CAGR during the forecast period in the Manufacturing execution systems market'

With strict regulatory requirements, a growing need for real-time production monitoring, and a shift towards a more operationally efficient manufacturing sector, the pharmaceutical industry will grow at significant CAGR in the Manufacturing Execution Systems (MES) market. MES solutions in the pharmaceutical manufacturing industry support production process streamlining, compliance with FDA and GMP standards, and traceability across the supply chain. Also these systems provide smooth batch records, automated reporting, and ERP and quality management (QM) system integration. MES now enables process optimization with minimal downtime, ensuring consistent product quality as the adoption of AI, machine learning, and predictive analytics expands. While pharmaceutical companies continue accelerating their digital transformation and Industry 4.0 initiatives, the necessity to use MES for maintaining stringent quality control, slashing waste while minimizing the costs of production will

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remain higher in demand in the future.

'North America to lead manufacturing execution systems market growth with the second largest share, driven by digital transformation and industrial automation'

North America is anticipated to register the second largest share in the manufacturing execution systems market because of the fast growth in industrial automation, the high level of government encouragement towards digitalization, and the rising uptake of smart manufacturing. The presence of important automobile aerospace and pharmaceutical industries makes North America one of the top market for MES as companies require real-time production control and quality monitoring and compliance tracking. The market is expanding quickly as the region leverages loT technology, Industry 4.0, and embraces cloud-based MES systems. MES integration with enterprise systems is becoming more seamless due to growing investments in Al-driven analytics and cybersecurity solutions. With its strong technological foundation, North America is set to dominate MES market growth significantly in the coming years.

Breakdown of primaries

A variety of executives from key organizations operating in the manufacturing execution systems market were interviewed in-depth, including CEOs, marketing directors, and innovation and technology directors.

By Company Type: Tier 1 –45%, Tier 2 – 30%, and Tier 3 – 25%

By Designation: C-level Executives – 35%, Directors – 45%, and Others – 20%

By Region: North America – 30%, Europe – 25%, Asia Pacific – 35%, and RoW – 10%

Major players profiled in this report are as follows: Siemens (Germany), Dassault Syst?mes (France), SAP SE (Germany), Rockwell Automation (US), Honeywell International Inc. (US) and others. These leading companies possess a wide portfolio of products, establishing a prominent presence in established as well as emerging markets.

The study provides a detailed competitive analysis of these key players in the manufacturing execution systems market, presenting their company profiles, most

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recent developments, and key market strategies.

Key Market Players

Key players operating in manufacturing execution systems market are as follows:

1. Siemens (Germany)

2. Dassault Syst?mes (France)

3. SAP SE (Germany)

4. Rockwell Automation (US)

5. Honeywell International Inc.(US)

6. ABB (Switzerland)

7. Applied Materials (US)

8. Emerson Electric Co. (US)

9. GE Vernova (US)

10. Oracle (US)

11. Schneider Electric (France)

12. K?rber AG (Germany)

13. Yokogawa Electric Corporation (Japan)

14. Aptean (Georgia)

15. Epicor Software Corporation (US)

16. Infor (US)

17. 42Q (US)

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18. Aegis Industrial Software Corporation (UK)

19. Cerexio (Singapore)

20. Critical Manufacturing SA (Portugal)

21. Eyelit (US)

22. iBase-t (US)

23. MPDV (Germany)

24. Parsec Automation, LLC (US)

25. Tebis Technische Informationssysteme AG (Germany)

26. Throughput Consulting Inc.(US)

27. FORCAM ENISCO GmbH (Germany)

28. Miracom, Inc. (South Korea)

29. Andea (Poland)

30. MasterControl Solutions, Inc. (US)

Study Coverage

In this report, the manufacturing execution systems market has been segmented based on offering, deployment mode, application, industry and region. The offering segment consists of software and services. The deployment mode segment includes on-premises, cloud, and hybrid. The application segment consists of production management, quality management, material and inventory management, maintenance management and performance analysis. The industry segment comprises food & beverages, oil & gas, chemicals, pharmaceuticals & life sciences, automotive, aerospace, medical devices, electronics & semiconductor, metals & mining, other industries. The market has been segmented into four regions-North America, Asia Pacific, Europe, and RoW.

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Key Benefits of Buying the Report

Analysis of key drivers (rising population growth to fuel the need for connected supply chains and mass production in manufacturing, integration of information technology (IT) and operational technology (OT) systems, rising demand for industrial automation across industries, rising regulatory pressure related to safety and quality of manufacturing processes and products, rising emphasis on operational efficiency, growing complexity of manufacturing processes), restraints (high costs associated with upgrades and maintenance, MES integration complexities), opportunities (MES integration with ERP and PLM solutions, implementation of MES in the pharmaceutical and life sciences industries, MES solutions require customization to address the diverse demands of different industries, and rising implementation of MES in SMEs), and challenges (complexities associated in deployment of MES in various industries and data security concerns associated with MES) 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 varied regions.

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

Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players like Siemens (Germany), Dassault Syst?mes (France), SAP SE (Germany), Rockwell Automation (US), Honeywell International Inc. (US) and others.

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