Modern Manufacturing Execution System Market Research Report - Global Forecast till 2027

Market Overview

The modern manufacturing execution system industry is evaluated to grow at a cagr of 16.1% during the forecast period 2020-2026. It is projected that the market value will reach USD 46,607 million by the year 2027. The modern manufacturing execution systems are projected to have a massive demand for among the control systems of the industries.

The manufacturing execution system is an integrated system for providing information. It helps to keep track of the data flows by connection, monitoring, and other systems. It mainly helps to improve the operations required for manufacturing implementation and the outcome of the products as well. The increasing rate of industrialisation among various developing counties is the major factor for the market growth.

Also, some industries in the end-user section will face some disruptions due to some strict regulations for the manufacturing process. The high costs for maintenance and installations, complex processes, and other factors can slow the market. However, various other factors such as the uses for sustainable processes and the food industry will also fuel the modern manufacturing execution system market growth.

COVID-19 Analysis

The outbreak of the COVID-19 disease had a massive impact on economies around the world. It is because various companies were forced to shut their manufacturing units as a result of lockdown. This has led to the disruption of the supply and distribution chain of various industries. The revenue which is generated in the market is interlinked with the service. But, due to the disease, the services sector was halted for several months in the initial months of 2020. But, it is speculated that after the pandemic will be eradicated, the modern manufacturing execution system market can regain its revenue exponentially in the future.

Market Dynamics

Market Drivers

The rising technological advancements in both the ot (operational technology) and it (information technology) are the major drivers of the modern manufacturing execution system industry. The systems used in the information technology are mainly used for the efficient collection of data. and the operational technology is used for the real-time monitoring of particular events and make required changes for various industrial purposes. also, the rising demand for iot (internet of things) is a major factor for its various benefits.

Restraints

The sudden shift for the industries towards digital platforms includes several levels. It can be helpful for medium and large-sized enterprises. However, currently, it is essential for effective and capable software for better performance of the systems. As a result, medium and small-sized enterprises are not capable to use advanced solutions. For that, they need high investments. Also, there is a certain lack of knowledge regarding the benefits of the Modern Manufacturing Execution System Market Trends among the users. Thus, these factors can hinder the market growth during the forecast period.

Opportunities

There are various modern manufacturing execution system market opportunities that are expected to boost the market. The modern manufacturing execution systems are largely used for gathering and auditing the data, dispatching, scheduling, and other tasks. It also requires other available solutions in the market for effective workflows such as the warehouse management systems (wms), supply chain management (scm), and many more. The combination of such solutions along with the mes has greater opportunities for the market to develop at a rapid speed.

Challenge

The complicated process for installation among various industries can be a huge challenge. The requirement of every industry is different from one another. The complicated process can be tough for implementation along with the system and can affect the performance. It will take a huge amount of time will be challenging for the modern manufacturing execution system market to thrive.

Cumulative Analysis

Due to the rising technological advancements, the market will escalate and gain significant revenue. The shift of business organisations towards more enhanced and mes systems are influencing the market growth. It is projected that the compound annual growth rate of the modern manufacturing execution system industry will be around 16.1%. The market will generate healthy revenue and modern manufacturing execution system market value will reach around USD 46,607 million during
Value Chain Analysis

The need for integrated services for data collection, deployment, software services, and other factors are adding value for the modern manufacturing execution system industry. Hence, the developments and recent developments by the key players are effective and the market will have huge importance among various industries for a long period in the future years.

GLOBAL MODERN MANUFACTURING EXECUTION SYSTEM MARKET SHARE, BY, 2017-2027

Market Segmentations

The modern manufacturing execution system market share is segmented into deployment, components, and discrete industry.

On the basis of discrete industry, the modern manufacturing execution system market is further divided into Defence and Aerospace, FMCG, Automotive, Electronics, Medicals, and others.

On the basis of components, the modern manufacturing execution system market is further segmented into services and software.

The modern manufacturing execution system industry on the basis of deployment is further bifurcated into hybrid, on-premise, and on-cloud.

Regional Analysis

On the basis of region, the modern manufacturing execution system market size is divided into Asia-Pacific, North America, Europe, Latin America, and the Rest of the World. It was recorded that the North American region held the largest share in the market during 2019. Hence, it is evaluated that this region will dominate the market in the future years too.

The Asia-Pacific will be the fastest-growing region in the global modern manufacturing execution system industry during the forecast period. One of the major reasons is the rapid industrialisation and demand for better technology. Along with that, countries such as India, China, and Japan are the major contributors to the positive growth.

The European region will also hold a significant share in the global modern manufacturing execution system market after North America. It is expected that this region will have the highest CAGR of around 19% in the future years.

Further, the section of the rest of the world is divided into Africa and the Middle East. The modern manufacturing execution system market in this region will also have substantial growth as compared to the previous years. Rising awareness for technological advancements is one of the major factors for growth.

Competitive Landscape

There are various key players which are trying to improve the modern manufacturing execution system market growth through various market strategies. They do collaborations, acquisitions, market surveys, data collection, mergers, product launches, etc. A major key player called AVEVA Group PLC provides various execution systems for the various manufacturing process.

Another major company Rockwell announced that it upgraded its service for the “FactoryTalk InnovationSuite” for its consumers. The program is supported by the PTC to promote its market growth in the upcoming years.

Here is the list of some renowned modern manufacturing execution system market key players:

ABB LTD (Switzerland)
Tebis Technische Informationssysteme AG (US)
AG (Germany)
Werum IT Solutions Gmbh (Germany)
Dassault Systems (France)
Rockwell Automation Inc. (US)
Honeywell International Inc. (US)
Emerson Electric Co. (US)
General Electric Company (US)
Siemens AG (Germany)
Andea Solutions (Sweden)
Oracle Group (US)
Siemens AG (Germany)
Recent Developments

Emerson Electric Co., a US-based company in 2019, announced its acquisition of Bioproduction Group. With this acquisition, Emerson can expand its portfolio for providing technology for various life science purposes. It will help to enhance the treatments of the chronic diseases such as diabetes, cancers, and others.

In 2019, Rockwell announced its acquisition of MESHTECH in order to expand its business foothold and capture more regions across the world.

Report Overview

The report overview of the modern manufacturing execution system (MES) market is as follows:

- Market Overview
- COVID-Analysis
- Market Dynamics
- Value Chain Analysis
- Market Segmentation
- Regional Segmentation
- Competitive Analysis
- Recent Developments of the key players

GLOBAL MODERN MANUFACTURING EXECUTION SYSTEM MARKET, BY REGION, 2019

USD 14,733.1 MILLION

North America 31.4%
Europe 25.9%
Asia Pacific 14.3%
Rest of the World 28.4%

Report Score and Segmentation

Study Period: 2020-2026
Base Year: 2018-2020
Forecast Period: 2020-2026
Historical Period: 2018-2019

The score of the market is to give information upon the report of the modern manufacturing execution system industry. It also gives information about the market drivers, opportunities, restraints, and other factors. Further, it also gives information about the key players in the market.

By Discrete Industry
- Defence and Aerospace
- Electronics
- FMCG
- Automotive
- Medical

By Component
- Devices
- Software

By Deployment
- Hybrid
- On-cloud
- On-Premise

By Region
- Europe
Infographic Summary:

Global Modern Manufacturing Execution System (MES) Market

The global modern manufacturing execution system (MES) market is expected to reach USD 46,376.8 million in 2027.

CAGR (%), by Region 2019–2027

Drivers
- Increasing implementation of automation across industries
- Growing need for real-time visibility

Restrains
- High initial investment

Key Players
- Rockwell Automation
- Dassault Systèmes
- Siemens
- SAP
1 Executive Summary

2 Market Introduction
2.1 Definition
2.2 Scope of the Study
2.3 Market Structure

3 Research Methodology
3.1 Research Process
3.2 Primary Research
3.3 Secondary Research
3.4 Market Size Estimation
3.5 Forecast Model
3.6 List of Assumptions

4 Market Dynamics
4.1 Overview
4.2 Drivers:
4.2.1 Increasing Demand for Industrial Automation
4.2.2 Growing Need of Real-Time Visibility
4.3 Restraints:
4.3.1 High Initial Investment
4.4 Opportunities
4.4.1 Increasing Penetration of MES in Industrial Internet of Things (IIoT)

5 Market Factor Analysis
5.1 Value Chain Analysis
5.1.1 Designers and Programmers
5.1.2 Solution developers
5.1.3 System Integrators
5.1.4 End Users
5.2 Porter’s Five Forces Model
5.2.1 Threat of New Entrants
5.2.2 Bargaining Power of Suppliers
5.2.3 Threat of Substitutes
5.2.4 Bargaining Power of Buyers
5.2.5 Intensity of Rivalry

6 Market Alerts
6.1 Use Case
6.1.1 Active Quality Management
6.2 Impact of Emerging Technology
6.2.1 Smart Factory
6.2.2 Industrial Automation

7 Modern Manufacturing Execution System (MES) Market, by Component
7.1 Overview
7.2 Software
7.2.1 Enterprise Resource Planning (ERP)
7.2.2 Warehouse Management
7.2.3 Product Lifecycle Management (PLM)
7.3 Service
7.3.1 Consulting & Development
7.3.2 Training & Support
7.3.3 Integration Service

8 Modern Manufacturing Execution System (MES) Market, by Deployment
8.1 Overview
8.2 Cloud
8.3 On-Premise
8.4 Hybrid

9 Modern Manufacturing Execution System (MES) Market, by Discrete Industry
9.1 Overview
9.2 Electronics
9.3 Automotive
9.4 Medical
9.5 FMCG
9.6 Aerospace & Defense

10 Modern Manufacturing Execution System (MES) Market, by Region
10.1 Overview
10.2 North America
10.2.1 US
10.2.2 Canada
10.2.3 Mexico
10.3 Europe
10.3.1 UK
10.3.2 Germany
10.3.3 France
10.3.4 Rest of Europe