

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

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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).

Contents

1 INTRODUCTION

- 1.1 STUDY OBJECTIVES
- 1.2 MARKET DEFINITION
- 1.3 INCLUSIONS AND EXCLUSIONS
- 1.4 STUDY SCOPE
 - 1.4.1 MARKETS COVERED
 - 1.4.2 REGIONAL SCOPE
 - 1.4.3 YEARS CONSIDERED
 - 1.4.4 CURRENCY CONSIDERED
- 1.5 STAKEHOLDERS
- 1.6 SUMMARY OF CHANGES
- 1.7 IMPACT OF RECESSION

2 RESEARCH METHODOLOGY

- 2.1 RESEARCH DATA
 - FIGURE 1 MANUFACTURING EXECUTION SYSTEMS MARKET: RESEARCH DESIGN
 - FIGURE 2 MANUFACTURING EXECUTION SYSTEMS MARKET: SECONDARY AND PRIMARY RESEARCH
 - 2.1.1 SECONDARY DATA
 - 2.1.1.1 List of major secondary sources
 - 2.1.1.2 Key data from secondary sources
 - 2.1.2 PRIMARY DATA
 - 2.1.2.1 Primary interviews with experts
 - 2.1.2.2 Key data from primary sources
 - 2.1.2.3 Key industry insights
 - 2.1.2.4 Breakdown of primaries
- 2.2 MARKET SIZE ESTIMATION METHODOLOGY
 - 2.2.1 BOTTOM-UP APPROACH
 - 2.2.1.1 Approach to arrive at market size using bottom-up analysis (demand side)
 - FIGURE 3 MANUFACTURING EXECUTION SYSTEMS MARKET: BOTTOM-UP APPROACH
 - 2.2.2 TOP-DOWN APPROACH
 - 2.2.2.1 Approach to arrive at market size using top-down analysis

(supply side)

FIGURE 4 MANUFACTURING EXECUTION SYSTEMS MARKET: TOP-DOWN APPROACH

FIGURE 5 MANUFACTURING EXECUTION SYSTEMS MARKET SIZE ESTIMATION METHODOLOGY

2.3 MARKET BREAKDOWN AND DATA TRIANGULATION

FIGURE 6 MANUFACTURING EXECUTION SYSTEMS MARKET: DATA TRIANGULATION

2.4 RESEARCH ASSUMPTIONS

2.5 RISK ASSESSMENT

2.6 PARAMETERS CONSIDERED TO ANALYZE RECESSION IMPACT

2.7 RESEARCH LIMITATIONS

3 EXECUTIVE SUMMARY

FIGURE 7 MANUFACTURING EXECUTION SYSTEMS MARKET SIZE, 2020?2029 (USD MILLION)

FIGURE 8 ON-PREMISES DEPLOYMENT HELD LARGEST MARKET SHARE IN 2023

FIGURE 9 PHARMACEUTICALS & LIFE SCIENCES SEGMENT TO DOMINATE MANUFACTURING EXECUTION SYSTEMS MARKET FROM 2024 TO 2029

FIGURE 10 AUTOMOTIVE INDUSTRY HELD LARGEST MARKET SHARE IN 2023

FIGURE 11 NORTH AMERICA ACCOUNTED FOR LARGEST SHARE OF MANUFACTURING EXECUTION SYSTEMS MARKET IN 2023

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN MANUFACTURING EXECUTION SYSTEMS MARKET

FIGURE 12 INCREASING USE OF INDUSTRIAL AUTOMATION SYSTEMS IN PROCESS AND DISCRETE INDUSTRIES TO BOOST MARKET GROWTH

4.2 MANUFACTURING EXECUTION SYSTEMS MARKET, BY OFFERING

FIGURE 13 SERVICES SEGMENT ACCOUNTED FOR LARGER MARKET SHARE IN 2023

4.3 MANUFACTURING EXECUTION SYSTEMS MARKET, BY DEPLOYMENT

FIGURE 14 ON-PREMISES DEPLOYMENT TO DOMINATE MANUFACTURING EXECUTION SYSTEMS MARKET DURING FORECAST PERIOD

4.4 MANUFACTURING EXECUTION SYSTEMS MARKET, BY PROCESS INDUSTRY

FIGURE 15 PHARMACEUTICALS & LIFE SCIENCES INDUSTRY TO HOLD LARGEST MARKET SHARE IN 2024

4.5 MANUFACTURING EXECUTION SYSTEMS MARKET, BY DISCRETE INDUSTRY
FIGURE 16 AUTOMOTIVE SEGMENT TO DOMINATE MANUFACTURING
EXECUTION SYSTEMS MARKET FOR DISCRETE INDUSTRY DURING FORECAST
PERIOD

4.6 MANUFACTURING EXECUTION SYSTEMS MARKET, BY COUNTRY
FIGURE 17 INDIA TO EXHIBIT HIGHEST CAGR IN MANUFACTURING EXECUTION
SYSTEMS MARKET BETWEEN 2024 AND 2029

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 18 MANUFACTURING EXECUTION SYSTEMS MARKET: DRIVERS,
RESTRAINTS, OPPORTUNITIES, AND CHALLENGES

5.2.1 DRIVERS

5.2.1.1 Growing need for connected supply chains and mass production in
manufacturing sector to serve growing population

TABLE 1 GLOBAL MID-YEAR POPULATION, BY AGE, 2022 (%)

5.2.1.2 Convergence of information technology (IT) and operational technology (OT)
systems

5.2.1.3 Increasing demand for industrial automation in process and discrete
industries

TABLE 2 MANUFACTURING EXECUTION SYSTEMS MARKET: BENEFITS
ASSOCIATED WITH MES

5.2.1.4 Growing need to adhere to regulatory requirements related to safety and
quality of manufacturing processes and products

5.2.1.5 Increasing demand for high operational efficiency

5.2.1.6 Rising complexity of manufacturing processes

FIGURE 19 MANUFACTURING EXECUTION SYSTEMS MARKET: IMPACT
ANALYSIS OF DRIVERS

5.2.2 RESTRAINTS

5.2.2.1 High investments and expenses related to upgrade and maintenance

5.2.2.2 Complexities associated with integration of MES with pre-existing
organizational systems

FIGURE 20 MANUFACTURING EXECUTION SYSTEMS MARKET: IMPACT
ANALYSIS OF RESTRAINTS

5.2.3 OPPORTUNITIES

5.2.3.1 Integration of MES with enterprise resource planning (ERP) and product
lifecycle management (PLM) solutions

5.2.3.2 Deployment of MES in pharmaceuticals and life sciences industries

5.2.3.3 Customization of MES to align with distinct demands from specific industries

5.2.3.4 Adoption of MES in small and medium-sized enterprises (SMEs)

FIGURE 21 MANUFACTURING EXECUTION SYSTEMS MARKET: IMPACT ANALYSIS OF OPPORTUNITIES

5.2.4 CHALLENGES

5.2.4.1 Difficulties in deployment of MES in various industries

5.2.4.2 Data security concerns associated with MES

FIGURE 22 MANUFACTURING EXECUTION SYSTEMS MARKET: IMPACT ANALYSIS OF CHALLENGES

5.3 TRENDS/DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES

FIGURE 23 MANUFACTURING EXECUTION SYSTEMS MARKET: TRENDS/DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES

5.4 PRICING ANALYSIS

TABLE 3 AVERAGE SUBSCRIPTION COST OF MES (USD)

FIGURE 24 AVERAGE SUBSCRIPTION COST OF MES, 2020?2029 (USD)

5.4.1 AVERAGE LICENSE/SUBSCRIPTION COST

FIGURE 25 AVERAGE LICENSE/SUBSCRIPTION COST OF MES OFFERED BY 3 KEY PLAYERS (USD)

TABLE 4 AVERAGE LICENSE/SUBSCRIPTION COST OF MES OFFERED BY 3 KEY PLAYERS (USD)

5.4.2 INDICATIVE LICENSE/SUBSCRIPTION COST

TABLE 5 MANUFACTURING EXECUTION SYSTEMS MARKET: INDICATIVE LICENSE/SUBSCRIPTION COST, BY REGION, 2023 (USD)

5.5 SUPPLY CHAIN ANALYSIS

FIGURE 26 MANUFACTURING EXECUTION SYSTEMS MARKET: SUPPLY CHAIN ANALYSIS

5.6 ECOSYSTEM MAPPING

FIGURE 27 MANUFACTURING EXECUTION SYSTEMS MARKET: ECOSYSTEM MAPPING

TABLE 6 COMPANIES AND THEIR ROLES IN MANUFACTURING EXECUTION SYSTEMS ECOSYSTEM

5.7 TECHNOLOGY ANALYSIS

5.7.1 INTERNET OF THINGS (IOT)

5.7.2 ARTIFICIAL INTELLIGENCE (AI)

5.7.3 PREDICTIVE MAINTENANCE

5.7.4 DIGITAL TWIN

5.7.5 BIG DATA ANALYTICS

5.8 PATENT ANALYSIS

FIGURE 28 MANUFACTURING EXECUTION SYSTEMS MARKET: TOP 10 COMPANIES WITH HIGHEST NUMBER OF PATENT APPLICATIONS IN LAST 10 YEARS

TABLE 7 MANUFACTURING EXECUTION SYSTEMS MARKET: TOP 20 PATENT OWNERS IN US IN LAST 10 YEARS

FIGURE 29 MANUFACTURING EXECUTION SYSTEMS MARKET: NUMBER OF PATENTS GRANTED PER YEAR, 2014–2023

TABLE 8 PATENTS RELATED TO MES

5.9 TRADE ANALYSIS

5.9.1 IMPORT SCENARIO

FIGURE 30 IMPORT DATA FOR HS CODE 903289-COMPLIANT PRODUCTS FOR KEY COUNTRIES, 2018–2022 (USD MILLION)

5.9.2 EXPORT SCENARIO

FIGURE 31 EXPORT DATA FOR HS CODE 903289-COMPLIANT PRODUCTS FOR KEY COUNTRIES, 2018–2022 (USD MILLION)

5.10 KEY CONFERENCES AND EVENTS, 2024–2025

TABLE 9 MANUFACTURING EXECUTION SYSTEMS MARKET: LIST OF KEY CONFERENCES AND EVENTS, 2024–2025

5.11 CASE STUDY ANALYSIS

TABLE 10 ELMWOOD RECLAIMED TIMBER INC. USED SIEMENS' MES TO SYNCHRONIZE MANUFACTURING PROCESSES, ENHANCE ON-TIME DELIVERY, AND ELIMINATE MANUAL SCHEDULING LIMITATIONS

TABLE 11 PHARMACEUTICAL COMPANY AUTOMATED PRODUCTION PROCESS AND ACHIEVED PAPERLESS MANUFACTURING USING SIEMENS' MES OPCENTER EXECUTION MEDICAL DEVICE AND DIAGNOSTICS

TABLE 12 SAFRAN CERAMICS INSTALLED MES SOFTWARE OFFERED BY INFODREAM INC. TO MONITOR PRODUCTION AND DIGITALIZE MANUFACTURING PROCESS

TABLE 13 LONZA USED ROCKWELL AUTOMATION'S FACTORYTALK PRODUCTIONCENTRE TO ADHERE TO STRICT REGULATORY COMPLIANCE REQUIREMENTS AND REDUCE DATA ENTRY ERRORS

5.12 STANDARDS AND REGULATORY LANDSCAPE

5.12.1 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 14 NORTH AMERICA: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 15 EUROPE: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 16 ASIA PACIFIC: LIST OF REGULATORY BODIES, GOVERNMENT

AGENCIES, AND OTHER ORGANIZATIONS

TABLE 17 ROW: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

5.12.2 STANDARDS

TABLE 18 STANDARDS RELATED TO MES

5.13 PORTER'S FIVE FORCES ANALYSIS

FIGURE 32 MANUFACTURING EXECUTION SYSTEMS MARKET: PORTER'S FIVE FORCES ANALYSIS, 2023

TABLE 19 MANUFACTURING EXECUTION SYSTEMS MARKET: PORTER'S FIVE FORCES ANALYSIS

5.13.1 INTENSITY OF COMPETITIVE RIVALRY

5.13.2 BARGAINING POWER OF SUPPLIERS

5.13.3 BARGAINING POWER OF BUYERS

5.13.4 THREAT OF SUBSTITUTES

5.13.5 THREAT OF NEW ENTRANTS

5.14 KEY STAKEHOLDERS AND BUYING CRITERIA

5.14.1 KEY STAKEHOLDERS IN BUYING PROCESS

FIGURE 33 MANUFACTURING EXECUTION SYSTEMS MARKET: INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP 3 PROCESS INDUSTRIES

TABLE 20 MANUFACTURING EXECUTION SYSTEMS MARKET: INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP 3 PROCESS INDUSTRIES (%)

5.14.2 BUYING CRITERIA

FIGURE 34 MANUFACTURING EXECUTION SYSTEMS MARKET: KEY BUYING CRITERIA FOR TOP 3 PROCESS INDUSTRIES

TABLE 21 MANUFACTURING EXECUTION SYSTEMS MARKET: KEY BUYING CRITERIA FOR TOP 3 PROCESS INDUSTRIES

6 MANUFACTURING EXECUTION SYSTEMS MARKET, BY OFFERING

6.1 INTRODUCTION

FIGURE 35 SERVICES OFFERING TO DOMINATE MANUFACTURING EXECUTION SYSTEMS MARKET DURING FORECAST PERIOD

TABLE 22 MANUFACTURING EXECUTION SYSTEMS MARKET, BY OFFERING, 2020–2023 (USD MILLION)

TABLE 23 MANUFACTURING EXECUTION SYSTEMS MARKET, BY OFFERING, 2024–2029 (USD MILLION)

6.2 SOFTWARE

6.2.1 REDUCTION IN MANUFACTURING CYCLE TIME AND LOW DATA MAINTENANCE REQUIREMENTS TO BOOST DEMAND

6.3 SERVICES

6.3.1 NEED FOR ROUTINE POWER SUPPLY CHECK IN MANUFACTURING PLANTS TO CONTRIBUTE TO SEGMENTAL GROWTH

6.3.2 IMPLEMENTATION

6.3.3 SOFTWARE UPGRADE

6.3.4 TRAINING

6.3.5 MAINTENANCE

7 MANUFACTURING EXECUTION SYSTEMS MARKET, BY DEPLOYMENT

7.1 INTRODUCTION

FIGURE 36 HYBRID DEPLOYMENT TO EXHIBIT HIGHEST CAGR IN MANUFACTURING EXECUTION SYSTEMS MARKET BETWEEN 2024 AND 2029
TABLE 24 MANUFACTURING EXECUTION SYSTEMS MARKET, BY DEPLOYMENT, 2020–2023 (USD MILLION)

TABLE 25 MANUFACTURING EXECUTION SYSTEMS MARKET, BY DEPLOYMENT, 2024–2029 (USD MILLION)

7.2 ON-PREMISES

7.2.1 ABILITY TO ADJUST SECURITY SETTING IN-HOUSE TO ACCELERATE SEGMENTAL GROWTH

TABLE 26 ON-PREMISES: MANUFACTURING EXECUTION SYSTEMS MARKET, BY PROCESS INDUSTRY, 2020–2023 (USD MILLION)

TABLE 27 ON-PREMISES: MANUFACTURING EXECUTION SYSTEMS MARKET, BY PROCESS INDUSTRY, 2024–2029 (USD MILLION)

TABLE 28 ON-PREMISES: MANUFACTURING EXECUTION SYSTEMS MARKET, BY DISCRETE INDUSTRY, 2020–2023 (USD MILLION)

TABLE 29 ON-PREMISES: MANUFACTURING EXECUTION SYSTEMS MARKET, BY DISCRETE INDUSTRY, 2024–2029 (USD MILLION)

7.3 ON-DEMAND

7.3.1 LOW-COST, SCALABILITY, AND RELIABILITY TO BOOST ON-DEMAND MES DEPLOYMENT

TABLE 30 ON-DEMAND: MANUFACTURING EXECUTION SYSTEMS MARKET, BY PROCESS INDUSTRY, 2020–2023 (USD MILLION)

TABLE 31 ON-DEMAND: MANUFACTURING EXECUTION SYSTEMS MARKET, BY PROCESS INDUSTRY, 2024–2029 (USD MILLION)

TABLE 32 ON-DEMAND: MANUFACTURING EXECUTION SYSTEMS MARKET, BY DISCRETE INDUSTRY, 2020–2023 (USD MILLION)

TABLE 33 ON-DEMAND: MANUFACTURING EXECUTION SYSTEMS MARKET, BY DISCRETE INDUSTRY, 2024–2029 (USD MILLION)

7.4 HYBRID

7.4.1 AGILITY AND FLEXIBILITY IN MANAGING HOST-SENSITIVE WORKLOADS TO FOSTER SEGMENTAL GROWTH

TABLE 34 HYBRID: MANUFACTURING EXECUTION SYSTEMS MARKET, BY PROCESS INDUSTRY, 2020–2023 (USD MILLION)

TABLE 35 HYBRID: MANUFACTURING EXECUTION SYSTEMS MARKET, BY PROCESS INDUSTRY, 2024–2029 (USD MILLION)

TABLE 36 HYBRID: MANUFACTURING EXECUTION SYSTEMS MARKET, BY DISCRETE INDUSTRY, 2020–2023 (USD MILLION)

TABLE 37 HYBRID: MANUFACTURING EXECUTION SYSTEMS MARKET, BY DISCRETE INDUSTRY, 2024–2029 (USD MILLION)

8 MANUFACTURING EXECUTION SYSTEMS MARKET, BY PROCESS INDUSTRY

8.1 INTRODUCTION

FIGURE 37 MANUFACTURING EXECUTION SYSTEMS MARKET, BY PROCESS INDUSTRY

FIGURE 38 PHARMACEUTICALS & LIFE SCIENCES INDUSTRY TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD

TABLE 38 MANUFACTURING EXECUTION SYSTEMS MARKET, BY PROCESS INDUSTRY, 2020–2023 (USD MILLION)

TABLE 39 MANUFACTURING EXECUTION SYSTEMS MARKET, BY PROCESS INDUSTRY, 2024–2029 (USD MILLION)

TABLE 40 PROCESS INDUSTRY: MANUFACTURING EXECUTION SYSTEMS MARKET, BY DEPLOYMENT, 2020–2023 (USD MILLION)

TABLE 41 PROCESS INDUSTRY: MANUFACTURING EXECUTION SYSTEMS MARKET, BY DEPLOYMENT, 2024–2029 (USD MILLION)

TABLE 42 PROCESS INDUSTRY: MANUFACTURING EXECUTION SYSTEMS MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 43 PROCESS INDUSTRY: MANUFACTURING EXECUTION SYSTEMS MARKET, BY REGION, 2024–2029 (USD MILLION)

8.2 FOOD & BEVERAGES

FIGURE 39 APPLICATIONS OF MES IN FOOD & BEVERAGES INDUSTRY

TABLE 44 FOOD & BEVERAGES: MANUFACTURING EXECUTION SYSTEMS MARKET, BY DEPLOYMENT, 2020–2023 (USD MILLION)

TABLE 45 FOOD & BEVERAGES: MANUFACTURING EXECUTION SYSTEMS MARKET, BY DEPLOYMENT, 2024–2029 (USD MILLION)

TABLE 46 FOOD & BEVERAGES: MANUFACTURING EXECUTION SYSTEMS MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 47 FOOD & BEVERAGES: MANUFACTURING EXECUTION SYSTEMS MARKET, BY REGION, 2024–2029 (USD MILLION)

TABLE 48 FOOD & BEVERAGES: MANUFACTURING EXECUTION SYSTEMS MARKET, BY APPLICATION, 2020–2023 (USD MILLION)

TABLE 49 FOOD & BEVERAGES: MANUFACTURING EXECUTION SYSTEMS MARKET, BY APPLICATION, 2024–2029 (USD MILLION)

8.2.1 FISHES, MEATS & POULTRIES

8.2.1.1 Rapid urbanization and population growth to fuel segmental growth

8.2.2 FRUITS & VEGETABLES

8.2.2.1 Reliance on MES software to facilitate smooth processing of fruits & vegetables to accelerate segmental growth

8.2.3 DAIRY PRODUCTS

8.2.3.1 Utilization of MES to ensure accurate ingredient measurements in dairy processing plants to boost segmental growth

8.2.4 BAKERY & CONFECTIONERY PRODUCTS

8.2.4.1 Use of MES to automate complex operations in bakery & confectionery production facilities to foster segmental growth

8.2.5 SNACKS & BREAKFAST CEREALS

8.2.5.1 High preference for healthy and nutritious foods to contribute to segmental growth

8.2.6 PREPARED MEALS & DISHES

8.2.6.1 Adoption of MES to preserve and increase shelf life of processed foods to drive market

8.2.7 PREPARED ANIMAL FEEDS

8.2.7.1 Employment of MES to increase productivity of animal feed processing plants to support segmental growth

8.2.8 BEVERAGES

8.2.8.1 Use of MES to manage packaging of final beverage products to fuel segmental growth

8.2.9 OTHER APPLICATIONS

8.3 OIL & GAS

8.3.1 IMPLEMENTATION OF MES SOFTWARE TO IMPROVE AND SIMPLIFY INTRICATE OPERATIONS IN OIL & GAS FACILITIES TO PROPEL MARKET

FIGURE 40 HYBRID DEPLOYMENT TO RECORD HIGHEST CAGR IN MARKET FOR OIL & GAS INDUSTRY FROM 2024 TO 2029

TABLE 50 OIL & GAS: MANUFACTURING EXECUTION SYSTEMS MARKET, BY DEPLOYMENT, 2020–2023 (USD MILLION)

TABLE 51 OIL & GAS: MANUFACTURING EXECUTION SYSTEMS MARKET, BY DEPLOYMENT, 2024–2029 (USD MILLION)

TABLE 52 OIL & GAS: MANUFACTURING EXECUTION SYSTEMS MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 53 OIL & GAS: MANUFACTURING EXECUTION SYSTEMS MARKET, BY REGION, 2024–2029 (USD MILLION)

8.4 CHEMICALS

8.4.1 RELIANCE ON MES TO OPTIMIZE CHEMICAL PRODUCTION TO CONTRIBUTE TO SEGMENTAL GROWTH

TABLE 54 CHEMICALS: MANUFACTURING EXECUTION SYSTEMS MARKET, BY DEPLOYMENT, 2020–2023 (USD MILLION)

TABLE 55 CHEMICALS: MANUFACTURING EXECUTION SYSTEMS MARKET, BY DEPLOYMENT, 2024–2029 (USD MILLION)

TABLE 56 CHEMICALS: MANUFACTURING EXECUTION SYSTEMS MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 57 CHEMICALS: MANUFACTURING EXECUTION SYSTEMS MARKET, BY REGION, 2024–2029 (USD MILLION)

8.5 PULP & PAPER

8.5.1 ADOPTION OF MES TO FACILITATE EFFICIENT SUPPLY OF PULP & PAPER TO FOSTER SEGMENTAL GROWTH

FIGURE 41 ON-PREMISES SEGMENT TO ACCOUNT FOR LARGEST SHARE IN MARKET FOR PULP & PAPER INDUSTRY DURING FORECAST PERIOD

TABLE 58 PULP & PAPER: MANUFACTURING EXECUTION SYSTEMS MARKET, BY DEPLOYMENT, 2020–2023 (USD MILLION)

TABLE 59 PULP & PAPER: MANUFACTURING EXECUTION SYSTEMS MARKET, BY DEPLOYMENT, 2024–2029 (USD MILLION)

TABLE 60 PULP & PAPER: MANUFACTURING EXECUTION SYSTEMS MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 61 PULP & PAPER: MANUFACTURING EXECUTION SYSTEMS MARKET, BY REGION, 2024–2029 (USD MILLION)

8.6 PHARMACEUTICALS & LIFE SCIENCES

8.6.1 UTILIZATION OF MES TO STANDARDIZE WORKFLOW OF PHARMACEUTICAL & LIFE SCIENCE PRODUCT MANUFACTURING TO PROPEL MARKET

TABLE 62 PHARMACEUTICALS & LIFE SCIENCES: MANUFACTURING EXECUTION SYSTEMS MARKET, BY DEPLOYMENT, 2020–2023 (USD MILLION)

TABLE 63 PHARMACEUTICALS & LIFE SCIENCES: MANUFACTURING EXECUTION SYSTEMS MARKET, BY DEPLOYMENT, 2024–2029 (USD MILLION)

TABLE 64 PHARMACEUTICALS & LIFE SCIENCES: MANUFACTURING EXECUTION SYSTEMS MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 65 PHARMACEUTICALS & LIFE SCIENCES: MANUFACTURING EXECUTION

SYSTEMS MARKET, BY REGION, 2024–2029 (USD MILLION)

8.7 ENERGY & POWER

8.7.1 INDUSTRIALIZATION AND INCREASED ELECTRICITY DEMAND TO ACCELERATE SEGMENTAL GROWTH

FIGURE 42 HYBRID SEGMENT TO EXHIBIT HIGHEST CAGR IN MARKET FOR ENERGY & POWER DURING FORECAST PERIOD

TABLE 66 ENERGY & POWER: MANUFACTURING EXECUTION SYSTEMS MARKET, BY DEPLOYMENT, 2020–2023 (USD MILLION)

TABLE 67 ENERGY & POWER: MANUFACTURING EXECUTION SYSTEMS MARKET, BY DEPLOYMENT, 2024–2029 (USD MILLION)

TABLE 68 ENERGY & POWER: MANUFACTURING EXECUTION SYSTEMS MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 69 ENERGY & POWER: MANUFACTURING EXECUTION SYSTEMS MARKET, BY REGION, 2024–2029 (USD MILLION)

8.8 WATER & WASTEWATER TREATMENT

8.8.1 ADOPTION OF MES TO INTEGRATE MULTIPLE WATER & WASTEWATER TREATMENT OPERATIONS INTO SINGLE NETWORK TO BOOST SEGMENTAL GROWTH

TABLE 70 WATER & WASTEWATER TREATMENT: MANUFACTURING EXECUTION SYSTEMS MARKET, BY DEPLOYMENT, 2020–2023 (USD MILLION)

TABLE 71 WATER & WASTEWATER TREATMENT: MANUFACTURING EXECUTION SYSTEMS MARKET, BY DEPLOYMENT, 2024–2029 (USD MILLION)

TABLE 72 WATER & WASTEWATER TREATMENT: MANUFACTURING EXECUTION SYSTEMS MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 73 WATER & WASTEWATER TREATMENT: MANUFACTURING EXECUTION SYSTEMS MARKET, BY REGION, 2024–2029 (USD MILLION)

8.9 OTHER PROCESS INDUSTRIES

TABLE 74 OTHER PROCESS INDUSTRIES: MANUFACTURING EXECUTION SYSTEMS MARKET, BY DEPLOYMENT, 2020–2023 (USD MILLION)

TABLE 75 OTHER PROCESS INDUSTRIES: MANUFACTURING EXECUTION SYSTEMS MARKET, BY DEPLOYMENT, 2024–2029 (USD MILLION)

TABLE 76 OTHER PROCESS INDUSTRIES: MANUFACTURING EXECUTION SYSTEMS MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 77 OTHER PROCESS INDUSTRIES: MANUFACTURING EXECUTION SYSTEMS MARKET, BY REGION, 2024–2029 (USD MILLION)

9 MANUFACTURING EXECUTION SYSTEMS MARKET, BY DISCRETE INDUSTRY

9.1 INTRODUCTION

FIGURE 43 MANUFACTURING EXECUTION SYSTEMS MARKET, BY DISCRETE INDUSTRY

FIGURE 44 AUTOMOTIVE DISCRETE INDUSTRY TO DOMINATE MANUFACTURING EXECUTION SYSTEMS MARKET DURING FORECAST PERIOD

TABLE 78 MANUFACTURING EXECUTION SYSTEMS MARKET, BY DISCRETE INDUSTRY, 2020–2023 (USD MILLION)

TABLE 79 MANUFACTURING EXECUTION SYSTEMS MARKET, BY DISCRETE INDUSTRY, 2024–2029 (USD MILLION)

TABLE 80 DISCRETE INDUSTRY: MANUFACTURING EXECUTION SYSTEMS MARKET, BY DEPLOYMENT, 2020–2023 (USD MILLION)

TABLE 81 DISCRETE INDUSTRY: MANUFACTURING EXECUTION SYSTEMS MARKET, BY DEPLOYMENT, 2024–2029 (USD MILLION)

TABLE 82 DISCRETE INDUSTRY: MANUFACTURING EXECUTION SYSTEMS MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 83 DISCRETE INDUSTRY: MANUFACTURING EXECUTION SYSTEMS MARKET, BY REGION, 2024–2029 (USD MILLION)

9.2 AUTOMOTIVE

9.2.1 USE OF MANUFACTURING EXECUTION SYSTEMS TO AUTOMATE AUTOMOTIVE SUPPLY CHAIN MANAGEMENT TO DRIVE MARKET

FIGURE 45 ADVANTAGES OF MES AT DIFFERENT LEVELS IN AUTOMOTIVE INDUSTRY

TABLE 84 AUTOMOTIVE: MANUFACTURING EXECUTION SYSTEMS MARKET, BY DEPLOYMENT, 2020–2023 (USD MILLION)

TABLE 85 AUTOMOTIVE: MANUFACTURING EXECUTION SYSTEMS MARKET, BY DEPLOYMENT, 2024–2029 (USD MILLION)

TABLE 86 AUTOMOTIVE: MANUFACTURING EXECUTION SYSTEMS MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 87 AUTOMOTIVE: MANUFACTURING EXECUTION SYSTEMS MARKET, BY REGION, 2024–2029 (USD MILLION)

9.3 AEROSPACE

9.3.1 IMPLEMENTATION OF MES TO GENERATE HISTORICAL DATA RELATED TO AIRCRAFT MACHINERY TO DRIVE MARKET

FIGURE 46 AEROSPACE INDUSTRY TO HOLD LARGEST SHARE OF MANUFACTURING EXECUTION SYSTEMS MARKET IN NORTH AMERICA IN 2029

TABLE 88 AEROSPACE: MANUFACTURING EXECUTION SYSTEMS MARKET, BY DEPLOYMENT, 2020–2023 (USD MILLION)

TABLE 89 AEROSPACE: MANUFACTURING EXECUTION SYSTEMS MARKET, BY DEPLOYMENT, 2024–2029 (USD MILLION)

TABLE 90 AEROSPACE: MANUFACTURING EXECUTION SYSTEMS MARKET, BY

REGION, 2020–2023 (USD MILLION)

TABLE 91 AEROSPACE: MANUFACTURING EXECUTION SYSTEMS MARKET, BY
REGION, 2024–2029 (USD MILLION)

9.4 MEDICAL DEVICES

9.4.1 ADOPTION OF MES SOFTWARE TO MANAGE SUPPLY OF MEDICAL
DEVICES TO CONTRIBUTE TO SEGMENTAL GROWTH

TABLE 92 MEDICAL DEVICES: MANUFACTURING EXECUTION SYSTEMS
MARKET, BY DEPLOYMENT, 2020–2023 (USD MILLION)

TABLE 93 MEDICAL DEVICES: MANUFACTURING EXECUTION SYSTEMS
MARKET, BY DEPLOYMENT, 2024–2029 (USD MILLION)

TABLE 94 MEDICAL DEVICES: MANUFACTURING EXECUTION SYSTEMS
MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 95 MEDICAL DEVICES: MANUFACTURING EXECUTION SYSTEMS
MARKET, BY REGION, 2024–2029 (USD MILLION)

9.5 CONSUMER PACKAGED GOODS

9.5.1 UTILIZATION OF MES TO MANAGE COST OF RAW MATERIALS FOR
CONSUMER-PACKAGED GOODS COMPANIES TO PROPEL MARKET

FIGURE 47 FACTORS DRIVING DEMAND FOR MES IN CONSUMER-PACKAGED
GOODS INDUSTRY

TABLE 96 CONSUMER PACKAGED GOODS: MANUFACTURING EXECUTION
SYSTEMS MARKET, BY DEPLOYMENT, 2020–2023 (USD MILLION)

TABLE 97 CONSUMER PACKAGED GOODS: MANUFACTURING EXECUTION
SYSTEMS MARKET, BY DEPLOYMENT, 2024–2029 (USD MILLION)

TABLE 98 CONSUMER PACKAGED GOODS: MANUFACTURING EXECUTION
SYSTEMS MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 99 CONSUMER PACKAGED GOODS: MANUFACTURING EXECUTION
SYSTEMS MARKET, BY REGION, 2024–2029 (USD MILLION)

9.6 OTHER DISCRETE INDUSTRIES

TABLE 100 OTHER DISCRETE INDUSTRIES: MANUFACTURING EXECUTION
SYSTEMS MARKET, BY DEPLOYMENT, 2020–2023 (USD MILLION)

TABLE 101 OTHER DISCRETE INDUSTRIES: MANUFACTURING EXECUTION
SYSTEMS MARKET, BY DEPLOYMENT, 2024–2029 (USD MILLION)

TABLE 102 OTHER DISCRETE INDUSTRIES: MANUFACTURING EXECUTION
SYSTEMS MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 103 OTHER DISCRETE INDUSTRIES: MANUFACTURING EXECUTION
SYSTEMS MARKET, BY REGION, 2024–2029 (USD MILLION)

10 MANUFACTURING EXECUTION SYSTEMS MARKET, BY REGION

10.1 INTRODUCTION

FIGURE 48 INDIA TO RECORD HIGHEST CAGR IN MANUFACTURING EXECUTION SYSTEMS MARKET DURING FORECAST PERIOD

FIGURE 49 NORTH AMERICA TO DOMINATE MANUFACTURING EXECUTION SYSTEMS MARKET FROM 2024 TO 2029

TABLE 104 MANUFACTURING EXECUTION SYSTEMS MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 105 MANUFACTURING EXECUTION SYSTEMS MARKET, BY REGION, 2024–2029 (USD MILLION)

10.2 NORTH AMERICA

10.2.1 RECESSION IMPACT ON MARKET IN NORTH AMERICA

FIGURE 50 NORTH AMERICA: MANUFACTURING EXECUTION SYSTEMS MARKET SNAPSHOT

TABLE 106 NORTH AMERICA: MANUFACTURING EXECUTION SYSTEMS MARKET, BY COUNTRY, 2020–2023 (USD MILLION)

TABLE 107 NORTH AMERICA: MANUFACTURING EXECUTION SYSTEMS MARKET, BY COUNTRY, 2024–2029 (USD MILLION)

10.2.2 US

10.2.2.1 Strong focus on protecting factory production assets from security incidents to contribute to market growth

10.2.3 CANADA

10.2.3.1 Rapid digitalization to address skilled labor shortage to boost market growth

10.2.4 MEXICO

10.2.4.1 High demand for IoT technology to increase predictive maintenance capabilities to foster market growth

10.3 EUROPE

10.3.1 RECESSION IMPACT ON MARKET IN EUROPE

FIGURE 51 EUROPE: MANUFACTURING EXECUTION SYSTEMS MARKET SNAPSHOT

TABLE 108 EUROPE: MANUFACTURING EXECUTION SYSTEMS MARKET, BY COUNTRY, 2020–2023 (USD MILLION)

TABLE 109 EUROPE: MANUFACTURING EXECUTION SYSTEMS MARKET, BY COUNTRY, 2024–2029 (USD MILLION)

10.3.2 UK

10.3.2.1 Rising preference for autonomous vehicles to drive market

10.3.3 GERMANY

10.3.3.1 Surging demand for automated systems in automotive manufacturing facilities to propel market

10.3.4 FRANCE

10.3.4.1 Increasing government efforts to revitalize manufacturing facilities to foster market expansion

10.3.5 ITALY

10.3.5.1 Growing number of industrial bases to create growth opportunities for MES manufacturers

10.3.6 REST OF EUROPE

10.4 ASIA PACIFIC

10.4.1 RECESSION IMPACT ON MARKET IN ASIA PACIFIC

FIGURE 52 ASIA PACIFIC: MANUFACTURING EXECUTION SYSTEMS MARKET SNAPSHOT

TABLE 110 ASIA PACIFIC: MANUFACTURING EXECUTION SYSTEMS MARKET, BY COUNTRY, 2020–2023 (USD MILLION)

TABLE 111 ASIA PACIFIC: MANUFACTURING EXECUTION SYSTEMS MARKET, BY COUNTRY, 2024–2029 (USD MILLION)

10.4.2 CHINA

10.4.2.1 Strong presence of semiconductor and automotive manufacturing companies to contribute to market growth

10.4.3 JAPAN

10.4.3.1 Subsidies to encourage SMEs to adopt digital solutions to augment demand

10.4.4 INDIA

10.4.4.1 Adoption of computerized process control systems in mining operations to fuel market growth

10.4.5 SOUTH KOREA

10.4.5.1 Increased electronic devices and vehicle production to accelerate segmental growth

10.4.6 REST OF ASIA PACIFIC

10.5 ROW

TABLE 112 ROW: MANUFACTURING EXECUTION SYSTEMS MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 113 ROW: MANUFACTURING EXECUTION SYSTEMS MARKET, BY REGION, 2024–2029 (USD MILLION)

10.5.1 SOUTH AMERICA

10.5.1.1 Increasing exploration and production of offshore oil & gas to foster market growth

10.5.2 GCC COUNTRIES

10.5.2.1 Surging adoption of MES to increase productivity and prevent errors in oil & gas operations to boost market growth

10.5.3 AFRICA & REST OF MIDDLE EAST

10.5.3.1 Lack of skilled labor in industrial sectors to contribute to market growth

11 COMPETITIVE LANDSCAPE

11.1 OVERVIEW

11.2 STRATEGIES ADOPTED BY KEY PLAYERS, 2021–2023

TABLE 114 MANUFACTURING EXECUTION SYSTEMS MARKET: OVERVIEW OF STRATEGIES ADOPTED BY PLAYERS, 2021–2023

11.3 REVENUE ANALYSIS OF TOP 5 PLAYERS, 2018–2022

FIGURE 53 MANUFACTURING EXECUTION SYSTEMS MARKET: REVENUE ANALYSIS OF TOP 5 PLAYERS, 2018–2022

11.4 MARKET SHARE ANALYSIS, 2023

FIGURE 54 MANUFACTURING EXECUTION SYSTEMS MARKET SHARE ANALYSIS, 2023

TABLE 115 MANUFACTURING EXECUTION SYSTEMS MARKET: DEGREE OF COMPETITION

11.5 COMPANY EVALUATION MATRIX, 2023

11.5.1 STARS

11.5.2 EMERGING LEADERS

11.5.3 PERVASIVE PLAYERS

11.5.4 PARTICIPANTS

FIGURE 55 MANUFACTURING EXECUTION SYSTEMS MARKET: COMPANY EVALUATION MATRIX, 2023

11.5.5 COMPANY FOOTPRINT

TABLE 116 OVERALL COMPANY FOOTPRINT (25 KEY COMPANIES)

TABLE 117 COMPANY DEPLOYMENT FOOTPRINT (25 KEY COMPANIES)

TABLE 118 COMPANY INDUSTRY FOOTPRINT (25 KEY COMPANIES)

TABLE 119 COMPANY REGION FOOTPRINT (25 KEY COMPANIES)

11.6 START-UP/SME EVALUATION MATRIX, 2023

11.6.1 PROGRESSIVE COMPANIES

11.6.2 RESPONSIVE COMPANIES

11.6.3 DYNAMIC COMPANIES

11.6.4 STARTING BLOCKS

FIGURE 56 MANUFACTURING EXECUTION SYSTEMS MARKET: START-UP/SME EVALUATION MATRIX, 2023

11.6.5 COMPETITIVE BENCHMARKING

TABLE 120 MANUFACTURING EXECUTION SYSTEMS MARKET: LIST OF KEYS START-UPS/SMES

TABLE 121 MANUFACTURING EXECUTION SYSTEMS MARKET: COMPETITIVE BENCHMARKING OF KEY START-UPS/SMES

11.7 COMPETITIVE SCENARIO AND TRENDS

TABLE 122 MANUFACTURING EXECUTION SYSTEMS MARKET: PRODUCT LAUNCHES, 2021-2023

TABLE 123 MANUFACTURING EXECUTION SYSTEMS MARKET: DEALS, 2021-2023

TABLE 124 MANUFACTURING EXECUTION SYSTEMS MARKET: OTHERS, 2023

12 COMPANY PROFILES

(Business Overview, Products/Solutions/Services offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats))*

12.1 KEY PLAYERS

12.1.1 SIEMENS

TABLE 125 SIEMENS: COMPANY OVERVIEW

FIGURE 57 SIEMENS: COMPANY SNAPSHOT

TABLE 126 SIEMENS: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 127 SIEMENS: PRODUCT LAUNCHES

TABLE 128 SIEMENS: DEALS

TABLE 129 SIEMENS: OTHERS

12.1.2 DASSAULT SYST?MES

TABLE 130 DASSAULT SYST?MES: COMPANY OVERVIEW

FIGURE 58 DASSAULT SYST?MES: COMPANY SNAPSHOT

TABLE 131 DASSAULT SYST?MES: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 132 DASSAULT SYST?MES: PRODUCT LAUNCHES

TABLE 133 DASSAULT SYST?MES: DEALS

12.1.3 SAP

TABLE 134 SAP: COMPANY OVERVIEW

FIGURE 59 SAP: COMPANY SNAPSHOT

TABLE 135 SAP: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 136 SAP: PRODUCT LAUNCHES

12.1.4 ROCKWELL AUTOMATION

TABLE 137 ROCKWELL AUTOMATION: COMPANY OVERVIEW

FIGURE 60 ROCKWELL AUTOMATION: COMPANY SNAPSHOT

TABLE 138 ROCKWELL AUTOMATION: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 139 ROCKWELL AUTOMATION: PRODUCT LAUNCHES

TABLE 140 ROCKWELL AUTOMATION: DEALS

TABLE 141 ROCKWELL AUTOMATION: OTHERS

12.1.5 HONEYWELL INTERNATIONAL INC.

TABLE 142 HONEYWELL INTERNATIONAL INC.: COMPANY OVERVIEW

FIGURE 61 HONEYWELL INTERNATIONAL INC.: COMPANY SNAPSHOT

TABLE 143 HONEYWELL INTERNATIONAL INC.:

PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 144 HONEYWELL INTERNATIONAL INC.: DEALS

12.1.6 ABB

TABLE 145 ABB: COMPANY OVERVIEW

FIGURE 62 ABB: COMPANY SNAPSHOT

TABLE 146 ABB: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 147 ABB: OTHERS

12.1.7 APPLIED MATERIALS, INC.

TABLE 148 APPLIED MATERIALS, INC.: COMPANY OVERVIEW

FIGURE 63 APPLIED MATERIALS, INC.: COMPANY SNAPSHOT

TABLE 149 APPLIED MATERIALS, INC.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

12.1.8 EMERSON ELECTRIC CO.

TABLE 150 EMERSON ELECTRIC CO.: COMPANY OVERVIEW

FIGURE 64 EMERSON ELECTRIC CO.: COMPANY SNAPSHOT

TABLE 151 EMERSON ELECTRIC CO.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 152 EMERSON ELECTRIC CO.: DEALS

12.1.9 GENERAL ELECTRIC

TABLE 153 GENERAL ELECTRIC: COMPANY OVERVIEW

FIGURE 65 GENERAL ELECTRIC: COMPANY SNAPSHOT

TABLE 154 GENERAL ELECTRIC: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 155 GENERAL ELECTRIC: PRODUCT LAUNCHES

12.1.10 ORACLE

TABLE 156 ORACLE: COMPANY OVERVIEW

FIGURE 66 ORACLE: COMPANY SNAPSHOT

TABLE 157 ORACLE: PRODUCTS/SOLUTIONS/SERVICES OFFERED

12.2 OTHER PLAYERS

12.2.1 42Q

TABLE 158 42Q: COMPANY OVERVIEW

12.2.2 AEGIS SOFTWARE

TABLE 159 AEGIS SOFTWARE: COMPANY OVERVIEW

12.2.3 APTEAN

TABLE 160 APTEAN: COMPANY OVERVIEW

12.2.4 CEREXIO

TABLE 161 CEREXIO: COMPANY OVERVIEW

12.2.5 CRITICAL MANUFACTURING

TABLE 162 CRITICAL MANUFACTURING: COMPANY OVERVIEW

12.2.6 EPICOR SOFTWARE CORPORATION

TABLE 163 EPICOR SOFTWARE CORPORATION: COMPANY OVERVIEW

12.2.7 EYELIT

TABLE 164 EYELIT: COMPANY OVERVIEW

12.2.8 FORCAM GMBH

TABLE 165 FORCAM GMBH: COMPANY OVERVIEW

12.2.9 IBASE-T

TABLE 166 IBASE-T: COMPANY OVERVIEW

12.2.10 LIGHTHOUSE SYSTEMS, INC.

TABLE 167 LIGHTHOUSE SYSTEMS, INC.: COMPANY OVERVIEW

12.2.11 MIRACOM INC CO., LTD.

TABLE 168 MIRACOM INC CO., LTD.: COMPANY OVERVIEW

12.2.12 MPDV

TABLE 169 MDPV: COMPANY OVERVIEW

12.2.13 PARSEC AUTOMATION CORP.

TABLE 170 PARSEC AUTOMATION CORP.: COMPANY OVERVIEW

12.2.14 TEBIS TECHNISCHE INFORMATIONSSYSTEME AG

TABLE 171 TEBIS TECHNISCHE INFORMATIONSSYSTEME AG: COMPANY OVERVIEW

12.2.15 THROUGHPUT INC.

TABLE 172 THROUGHPUT INC.: COMPANY OVERVIEW

*Details on Business Overview, Products/Solutions/Services offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats) might not be captured in case of unlisted companies.

13 ADJACENT MARKET

13.1 HUMAN-MACHINE INTERFACE MARKET

13.1.1 INTRODUCTION

FIGURE 67 HUMAN-MACHINE INTERFACE MARKET, BY CONFIGURATION

TABLE 173 HUMAN-MACHINE INTERFACE MARKET, BY CONFIGURATION, 2019–2022 (USD MILLION)

TABLE 174 HUMAN-MACHINE INTERFACE MARKET, BY CONFIGURATION, 2023–2028 (USD MILLION)

FIGURE 68 EMBEDDED SEGMENT TO REGISTER HIGHER CAGR IN HUMAN-MACHINE INTERFACE MARKET FROM 2023 TO 2028

13.1.2 EMBEDDED

13.1.2.1 Rapid technological advancements and growing need for integrated systems to drive demand

TABLE 175 EMBEDDED: HUMAN–MACHINE INTERFACE MARKET, BY PROCESS INDUSTRIES, 2019–2022 (USD MILLION)

TABLE 176 EMBEDDED: HUMAN–MACHINE INTERFACE MARKET, BY PROCESS INDUSTRIES, 2023–2028 (USD MILLION)

TABLE 177 EMBEDDED: HUMAN–MACHINE INTERFACE MARKET, BY DISCRETE INDUSTRIES, 2019–2022 (USD MILLION)

TABLE 178 EMBEDDED: HUMAN–MACHINE INTERFACE MARKET, BY DISCRETE INDUSTRIES, 2023–2028 (USD MILLION)

13.1.3 STANDALONE

13.1.3.1 Decline in total ownership cost and ease of installation to fuel demand

TABLE 179 STANDALONE: HUMAN–MACHINE INTERFACE MARKET, BY PROCESS INDUSTRIES, 2019–2022 (USD MILLION)

TABLE 180 STANDALONE: HUMAN–MACHINE INTERFACE MARKET, BY PROCESS INDUSTRIES, 2023–2028 (USD MILLION)

TABLE 181 STANDALONE: HUMAN–MACHINE INTERFACE MARKET, BY DISCRETE INDUSTRIES, 2019–2022 (USD MILLION)

TABLE 182 STANDALONE: HUMAN–MACHINE INTERFACE MARKET, BY DISCRETE INDUSTRIES, 2023–2028 (USD MILLION)

14 APPENDIX

14.1 INSIGHTS FROM INDUSTRY EXPERTS

14.2 DISCUSSION GUIDE

14.3 KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL

14.4 CUSTOMIZATION OPTIONS

14.5 RELATED REPORTS

14.6 AUTHOR DETAILS

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