

Smart Manufacturing Market - Edge Computing, Industrial 3D Printing, Robots, Sensor, Machine Vision, Artificial intelligence, Cybersecurity, Digital Twin, Private 5G, AGV, AMR, AR & VR, CAD, CAM, PLM, HMI, IPC, MES, WMS, and ERP - Global Forecast to 2029

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Abstracts

The global smart manufacturing market was valued at USD 233.33 billion in 2024 and is projected to reach USD 479.17 billion by 2029; it is expected to register a CAGR of 15.5% during the forecast period. Increasing government expenditure on 3D printing technologies is driving the growth of the smart manufacturing market. Whereas high initial capital investment is restraining the growth of the smart manufacturing market.

“Industrial Robotics segment is expected to grow at the second highest CAGR during the forecast period.”

The industrial robotics segment is expected to exhibit the second highest CAGR during the forecast period. The development of industrial robotics has taken off remarkably due to the notable improvements in productivity, quality, cost, safety and others that have been observed. The introduction of robots to perform simple and repetitive functions allows for a 24 hour service with minimal chances of human errors. Development of technology such as artificial intelligence (AI) and collaborative robots has also stimulated the use of robotics in areas such as manufacturing, warehousing, logistics and so on.

‘Oil & Gas segment is likely to hold the second largest market in 2024.’

Oil & Gas segment is expected to hold the second largest share in smart manufacturing market in 2024. The chief reason the oil and gas industry takes the lead in the smart manufacturing market is primarily due to challenges and necessities, this sector specifically needs. Due to the specific emphasis on safety, efficiency, remote locations, data-driven decisions, and strict regulations followed in this sector has led it to hold the second largest market share. Predictive maintenance, automation, and robots are some of the critical smart technologies that help the industry lower costs, improve safety, and increase efficiency.

“The North America segment is likely to grow at the second highest CAGR during the forecast period.”

The market in North America is expected to grow the second highest CAGR during the forecast period. The good business ecosystem in the US - with reformative initiatives in tax codes, significant package announcements for manufacturing and infrastructure companies, and availability of major technology providers - augur well for smart manufacturing technology adoption in the region.. In addition, the intense focus on optimum asset utilization, the enforcement of stringent government regulations for workplace and personal safety, and the high awareness of the need to control and assure output quality in oil & gas, chemicals, and food & beverages industries drive the demand for machine condition monitoring systems and plant asset management (PAM) solutions in the region.

Breakdown of primaries

The study contains insights from various industry experts, ranging from component suppliers to Tier 1 companies and OEMs. The break-up of the primaries is as follows:

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

By Designation— C-level Executives - 45%, Directors - 35%, Others - 20%

By Region—North America - 30%, Europe - 25%, Asia Pacific - 40%, RoW - 5%

The smart manufacturing market is dominated by a few globally established players such as 3D System, Inc. (US), ABB (Switzerland), Cisco System, Inc. (US), Emerson Electric Co. (US), General Electric (US), Honeywell International Inc. (US), IBM (US), Mitsubishi Electric Corporation (Japan), Rockwell Automation (US), Schneider Electric

(France), Siemens (Germany), Oracle (US), SAP (Germany), Stratasys (US), Yokogawa Electric Corporation(Japan). The study includes an in-depth competitive analysis of these key players in the smart manufacturing market, with their company profiles, recent developments, and key market strategies.

Research Coverage:

The report segments the smart manufacturing market and forecasts its size by technology, industry, and region. The report also discusses the drivers, restraints, opportunities, and challenges pertaining to the market. It gives a detailed view of the market across four main regions—North America, Europe, Asia Pacific, and RoW. Supply chain analysis has been included in the report, along with the key players and their competitive analysis in the smart manufacturing ecosystem.

Key Benefits to Buy the Report:

Analysis of key drivers (emphasis on boosting manufacturing efficiency through automated production, rising government expenditure on 3D printing technologies and rising demand for innovative technologies to minimize manufacturing downtime and production waste). Restraint (Requirement of high initial capital; investment and lack of standardization of industrial services), Opportunity (Accelerated developments in IIoT and cloud computing, growing investment in infrastructure development), Challenges (Security issues in smart manufacturing and complexities in integration of new technology equipment with existing ones).

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

Market Development: Comprehensive information about lucrative markets – the report analyses the smart manufacturing market across varied regions

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

Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players 3D System, Inc. (US), ABB

(Switzerland), Cisco System, Inc. (US), Emerson Electric Co. (US), General Electric (US), Honeywell International Inc. (US), IBM (US), Mitsubishi Electric Corporation (Japan) among others in the smart manufacturing market.

Contents

1 INTRODUCTION

- 1.1 STUDY OBJECTIVES
- 1.2 MARKET DEFINITION
- 1.3 STUDY SCOPE
 - 1.3.1 MARKETS COVERED AND REGIONAL SCOPE
 - 1.3.2 INCLUSIONS AND EXCLUSIONS
 - 1.3.3 YEARS CONSIDERED
- 1.4 CURRENCY CONSIDERED
- 1.5 UNITS CONSIDERED
- 1.6 LIMITATIONS
- 1.7 STAKEHOLDERS
- 1.8 SUMMARY OF CHANGES

2 RESEARCH METHODOLOGY

- 2.1 INTRODUCTION
 - 2.1.1 SECONDARY AND PRIMARY RESEARCH
 - 2.1.2 SECONDARY DATA
 - 2.1.2.1 List of key secondary sources
 - 2.1.2.2 Key data from secondary sources
 - 2.1.3 PRIMARY DATA
 - 2.1.3.1 List of primary interview participants
 - 2.1.3.2 Breakdown of primaries
 - 2.1.3.3 Key industry insights
 - 2.1.3.4 Key data from primary sources
- 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)
 - 2.2.2 TOP-DOWN APPROACH
 - 2.2.2.1 Approach to arrive at market size using top-down analysis (supply side)
- 2.3 MARKET BREAKDOWN AND DATA TRIANGULATION
- 2.4 RESEARCH ASSUMPTIONS
- 2.5 RESEARCH LIMITATIONS
- 2.6 RISK ANALYSIS

3 EXECUTIVE SUMMARY

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN SMART MANUFACTURING MARKET

4.2 SMART MANUFACTURING MARKET, BY TECHNOLOGY

4.3 SMART MANUFACTURING MARKET, BY INDUSTRY

4.4 SMART MANUFACTURING MARKET, BY COUNTRY

4.5 SMART MANUFACTURING MARKET, BY REGION

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

5.2.1 DRIVERS

5.2.1.1 Increasing reliance on automation technologies to improve manufacturing efficiency

5.2.1.2 Rising government investment in 3D printing technologies

5.2.1.3 Increasing need to maintain regulatory compliance of industrial solutions

5.2.1.4 Growing emphasis on minimizing manufacturing downtime and production waste

5.2.2 RESTRAINTS

5.2.2.1 High initial capital investments

5.2.2.2 Lack of standardization of industrial equipment

5.2.3 OPPORTUNITIES

5.2.3.1 Rapid advances in IIoT and cloud computing technologies

5.2.3.2 Increasing adoption of automation technologies in industrial sector

5.2.3.3 Growing investment in infrastructure development projects in emerging economies

5.2.4 CHALLENGES

5.2.4.1 Security issues

5.2.4.2 Complexities associated with meeting modern communication standards

5.3 VALUE CHAIN ANALYSIS

5.4 ECOSYSTEM ANALYSIS

5.5 PRICING ANALYSIS

5.5.1 AVERAGE SELLING PRICE TREND OF KEY PLAYERS, BY ROBOT TYPE

5.5.2 AVERAGE SELLING PRICE TREND, BY INDUSTRIAL SENSOR

5.5.3 AVERAGE SELLING PRICE TREND, BY ROBOT TYPE

5.5.4 AVERAGE SELLING PRICE TREND, BY REGION

5.6 INVESTMENT AND FUNDING SCENARIO

5.7 TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESS

5.8 TECHNOLOGY ANALYSIS

5.8.1 KEY TECHNOLOGIES

5.8.1.1 Digital twin

5.8.1.2 Blockchain

5.8.1.3 Augmented reality (AR) & virtual reality (VR)

5.8.1.4 Predictive maintenance

5.8.1.5 IoT

5.8.2 COMPLIMENTARY TECHNOLOGIES

5.8.2.1 Smart energy management

5.8.2.2 Cybersecurity

5.8.3 ADJACENT TECHNOLOGIES

5.8.3.1 Edge computing

5.9 PATENT ANALYSIS

5.10 TRADE ANALYSIS

5.10.1 IMPORT SCENARIO (HS CODE 847950)

5.10.2 EXPORT SCENARIO (HS CODE 847950)

5.11 KEY CONFERENCES AND EVENTS, 2025–2026

5.12 CASE STUDY ANALYSIS

5.12.1 HTC CORPORATION SUPPORTS FLAM TRAINER VR SIMULATION TO REDUCE COSTS OF TRAINING FIREFIGHTERS

5.12.2 CO2METER ENABLES LONG-RANGE DATA COLLECTION AND LEAK DETECTION OF CO2 WITH ISENSE ALARM (CM-0052)

5.12.3 SKF DEPLOYS ONLINE CONDITION MONITORING SYSTEM TO PREVENT CATASTROPHIC BEARING FAILURE

5.12.4 ELMWOOD RECLAIMED TIMBER USES SIEMENS' OPCENTER ADVANCED SCHEDULING SOLUTION TO SYNCHRONIZE MANUFACTURING AND ENHANCE DELIVERY

5.12.5 DHL LEVERAGES MANHATTAN ACTIVE WAREHOUSE MANAGEMENT SOLUTION TO ENABLE SCALABLE AND AGILE WAREHOUSE MANAGEMENT

5.13 REGULATORY LANDSCAPE

5.13.1 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

5.13.2 STANDARDS

5.14 PORTER'S FIVE FORCE ANALYSIS

5.14.1 THREAT OF NEW ENTRANTS

5.14.2 THREAT OF SUBSTITUTES

5.14.3 BARGAINING POWER OF SUPPLIERS

- 5.14.4 BARGAINING POWER OF BUYERS
- 5.14.5 INTENSITY OF COMPETITIVE RIVALRY
- 5.15 KEY STAKEHOLDERS AND BUYING CRITERIA
 - 5.15.1 KEY STAKEHOLDERS IN BUYING PROCESS
 - 5.15.2 BUYING CRITERIA
- 5.16 IMPACT OF GEN AI/AI ON SMART MANUFACTURING MARKET
 - 5.16.1 INTRODUCTION
 - 5.16.2 GEN AI/AI-SPECIFIC USE CASES

6 SMART MANUFACTURING MARKET, BY TECHNOLOGY

- 6.1 INTRODUCTION
- 6.2 AUTOMATION & CONTROL SYSTEMS
 - 6.2.1 HUMAN-MACHINE INTERFACE
 - 6.2.1.1 Hardware
 - 6.2.1.1.1 Basic HMI
 - 6.2.1.1.1.1 Increasing use in small-scale machinery and home automation systems to foster segmental growth
 - 6.2.1.1.2 Advanced panel-based HMI
 - 6.2.1.1.2.1 Shifting preference toward advanced user interface with mobile functionalities to drive market
 - 6.2.1.1.3 Advanced PC-based HMI
 - 6.2.1.1.3.1 Growing adoption of high-performance devices for data-intensive and complex visualization tasks to fuel segmental growth
 - 6.2.1.1.4 Other hardware types
 - 6.2.1.2 Software
 - 6.2.1.2.1 On-premises
 - 6.2.1.2.1.1 Rising focus on enhancing data security and control to accelerate segmental growth
 - 6.2.1.2.2 Cloud-based
 - 6.2.1.2.2.1 Increasing reliance on software with multi-location access support to boost segmental growth
 - 6.2.2 INDUSTRIAL PC
 - 6.2.2.1 Panel IPC
 - 6.2.2.1.1 Ability to withstand rugged industrial environments to foster segmental growth
 - 6.2.2.2 Rack-mount IPC
 - 6.2.2.2.1 Adoption in space-constrained applications to contribute to segmental growth

6.2.2.3 Embedded IPC

6.2.2.3.1 High emphasis on effective management of manufacturing plants to augment segmental growth

6.2.2.4 DIN rail IPC

6.2.2.4.1 Rise in demand for interconnected factories and enterprise networks to expedite segmental growth

6.3 ASSET & MAINTENANCE MANAGEMENT

6.3.1 PLANT ASSET MANAGEMENT

6.3.1.1 Increasing need for periodic monitoring and predictive analytics of plants to boost segmental growth

6.3.1.2 Production assets

6.3.1.3 Automation assets

6.3.2 MACHINE CONDITION MONITORING

6.3.2.1 Rising emphasis on increasing operational life of machinery to fuel segmental growth

6.3.2.2 Vibration monitoring

6.3.2.3 Thermography

6.3.2.4 Oil analysis

6.3.2.5 Ultrasound emission monitoring

6.3.2.6 Corrosion monitoring

6.3.2.7 Motor current analysis

6.3.3 COMPUTERIZED MAINTENANCE MANAGEMENT SYSTEMS

6.3.3.1 Growing automation of routine maintenance tasks to contribute to segmental growth

6.3.4 ASSET PERFORMANCE MANAGEMENT

6.3.4.1 Increasing need for proactive maintenance and plant condition monitoring to augment segmental growth

6.3.4.2 Solutions

6.3.4.2.1 Asset strategy management

6.3.4.2.2 Asset reliability management

6.3.4.2.3 Predictive asset management

6.3.4.2.4 Other solutions

6.3.4.3 Services

6.3.4.3.1 Professional

6.3.4.3.2 Managed

6.4 MANUFACTURING OPERATION SYSTEMS

6.4.1 MANUFACTURING EXECUTION SYSTEMS

6.4.1.1 Increasing use to improve business processes and profitability to foster segmental growth

6.4.1.2 Software

6.4.1.3 Services

6.4.1.3.1 Implementation

6.4.1.3.2 Software upgrade

6.4.1.3.3 Training

6.4.1.3.4 Maintenance

6.4.2 WAREHOUSE MANAGEMENT SYSTEMS

6.4.2.1 Rising adoption to handle physical inventories and cycle counting to bolster segmental growth

6.4.2.2 Software

6.4.2.3 Services

6.4.3 MANUFACTURING OPERATION MANAGEMENT

6.4.3.1 Growing emphasis on achieving operational excellence through oversight to augment segmental growth

6.4.4 ENTERPRISE RESOURCE PLANNING

6.4.4.1 Increasing use to automate workflow and inventory management to expedite segmental growth

6.4.5 QUALITY MANAGEMENT SYSTEMS

6.4.5.1 Growing emphasis on meeting customer and regulatory standards to accelerate segmental growth

6.5 INDUSTRIAL NETWORKING & CONNECTIVITY

6.5.1 PRIVATE 5G

6.5.1.1 Growing demand for seamless wireless communication to contribute to segmental growth

6.5.1.2 Hardware

6.5.1.3 Software

6.5.1.4 Services

6.5.2 EDGE COMPUTING

6.5.2.1 Rising number of smartphone users to augment segmental growth

6.5.2.2 Hardware

6.5.2.3 Software

6.5.3 CLOUD COMPUTING

6.5.3.1 Increasing need to satisfy customer expectations of secure services to foster segmental growth

6.5.3.2 IaaS

6.5.3.3 PaaS

6.5.3.4 SaaS

6.5.4 INDUSTRIAL COMMUNICATION

6.5.4.1 Growing need for reliable and secure networks to improve operational

efficiency to fuel segmental growth

6.5.4.2 Components

6.5.4.3 Software

6.5.4.4 Services

6.6 INDUSTRIAL ROBOTICS

6.6.1 INDUSTRIAL 3D PRINTING

6.6.1.1 Increasing focus on creating well-designed, lightweight, and less expensive components to expedite segmental growth

6.6.1.2 Printers

6.6.1.3 Materials

6.6.1.4 Software

6.6.1.5 Services

6.6.2 INDUSTRIAL ROBOTS

6.6.2.1 Traditional robots

6.6.2.1.1 Increasing adoption in high-volume production to fuel segmental growth

6.6.2.2 Collaborative robots

6.6.2.2.1 Ease of use and low-cost deployment to drive market

6.6.3 AUTOMATED GUIDED VEHICLES

6.6.3.1 Ease of operation and low operational costs to augment segmental growth

6.6.3.2 Tow vehicles

6.6.3.3 Unit load carriers

6.6.3.4 Pallet trucks

6.6.3.5 Assembly line vehicles

6.6.3.6 Forklift trucks

6.6.3.7 Other automated guided vehicles

6.6.4 AUTOMATED MOBILE ROBOTS

6.6.4.1 Rapid advances in battery technology to contribute to segmental growth

6.6.4.2 Hardware

6.6.4.3 Software & services

6.7 SENSORS & VISION SYSTEMS

6.7.1 INDUSTRIAL SENSORS

6.7.1.1 Contact sensors

6.7.1.1.1 Low costs and high accuracy to bolster segmental growth

6.7.1.2 Non-contact sensors

6.7.1.2.1 Adoption to detect thermal radiation to contribute to segmental growth

6.7.2 INDUSTRIAL MACHINE VISION

6.7.2.1 Hardware

6.7.2.1.1 Easy configuration and maintenance to accelerate segmental growth

6.7.2.1.2 Cameras

6.7.2.1.3 Frame grabbers

6.7.2.1.4 Optics

6.7.2.1.5 LED lighting

6.7.2.1.6 Processors

6.7.2.2 Software

6.7.2.2.1 Adoption of smart cameras to maximize productivity of vision systems to foster segmental growth

6.7.2.2.2 Traditional

6.7.2.2.3 Deep learning

6.8 DIGITAL TRANSFORMATION SYSTEMS

6.8.1 AI IN MANUFACTURING

6.8.1.1 Hardware

6.8.1.1.1 Increasing need for high-computing processors to run AI algorithms to fuel segmental growth

6.8.1.1.2 Processors

6.8.1.1.3 Memory devices

6.8.1.1.4 Network devices

6.8.1.2 Software

6.8.1.2.1 Rising emphasis on predictive maintenance and manufacturing quality control to boost segmental growth

6.8.1.2.2 AI platforms

6.8.1.2.3 AI solutions

6.8.1.3 Services

6.8.1.3.1 Increasing deployment of advanced technologies in industrial sectors to expedite segmental growth

6.8.1.3.2 Deployment & integration

6.8.1.3.3 Support & maintenance

6.8.2 INDUSTRIAL CYBERSECURITY

6.8.2.1 Growing adoption of connected devices and IT systems to boost segmental growth

6.8.2.2 Gateways

6.8.2.3 Networking devices

6.8.2.3.1 Routers

6.8.2.3.2 Industrial ethernet switches

6.8.2.4 Solutions & services

6.8.3 DIGITAL TWIN

6.8.3.1 Increasing deployment to provide valuable insights and drive operational improvements to fuel segmental growth

6.8.4 AR & VR IN MANUFACTURING

6.8.4.1 Rising integration of digital information and virtual objects with real-world environments to foster segmental growth

6.8.4.2 Hardware

6.8.4.3 Software

6.9 DESIGN & PLANNING SYSTEMS

6.9.1 COMPUTER-AIDED DESIGN

6.9.1.1 Growing focus on precise and efficient methods for creating detailed designs to expedite segmental growth

6.9.2 COMPUTER-AIDED MANUFACTURING

6.9.2.1 Rising emphasis on automating and streamlining manufacturing processes to accelerate segmental growth

6.9.3 PRODUCT LIFECYCLE MANAGEMENT

6.9.3.1 Increasing need to eliminate data silos and reduce inconsistencies in product development processes to drive market

7 SMART MANUFACTURING MARKET, BY INDUSTRY

7.1 INTRODUCTION

7.1.1 OIL & GAS

7.1.1.1 Rising integration of advanced automation systems to enhance operational efficiency to boost segmental growth

7.1.2 FOOD & BEVERAGES

7.1.2.1 Increasing focus on complying with safety standards to contribute to segmental growth

7.1.3 PHARMACEUTICALS

7.1.3.1 Rapid digitalization of manufacturing plants to enhance operational efficiency to fuel segmental growth

7.1.4 CHEMICALS

7.1.4.1 Increasing reliance on automated solutions to maintain ideal inventory levels to contribute to segmental growth

7.1.5 ENERGY & POWER

7.1.5.1 Rapid industrialization and infrastructure development to augment segmental growth

7.1.6 METALS & MINING

7.1.6.1 Rising implementation of stringent rules to ensure safety using advanced technologies to fuel segmental growth

7.1.7 PULP & PAPER

7.1.7.1 Burgeoning demand for wood-based products to contribute to segmental

growth

7.1.8 AUTOMOTIVE

7.1.8.1 Rising emphasis on increasing production speed and efficiency to accelerate segmental growth

7.1.9 AEROSPACE

7.1.9.1 Increasing adoption of critical machine condition monitoring techniques to fuel segmental growth

7.1.10 SEMICONDUCTOR & ELECTRONICS

7.1.10.1 Growing focus on reducing waste, inventory, and supply chain costs to boost segmental growth

7.1.11 MEDICAL DEVICES

7.1.11.1 Rising aging population and health risks to expedite segmental growth

7.1.12 HEAVY MACHINERY

7.1.12.1 Increasing reliance on AI technology to reduce downtime to accelerate segmental growth.

7.1.13 OTHER INDUSTRIES

8 SMART MANUFACTURING MARKET, BY REGION

8.1 INTRODUCTION

8.2 NORTH AMERICA

8.2.1 MACROECONOMIC OUTLOOK FOR NORTH AMERICA

8.2.2 US

8.2.2.1 Rising need to boost operational efficiency and optimize resource utilization to foster market growth

8.2.3 CANADA

8.2.3.1 Increasing investment to improve automotive manufacturing to accelerate market growth

8.2.4 MEXICO

8.2.4.1 Escalating adoption of IoT, AI, and other automation technologies to contribute to market growth

8.3 EUROPE

8.3.1 MACROECONOMIC OUTLOOK FOR EUROPE

8.3.2 UK

8.3.2.1 Increasing adoption of digital technologies to transform business operations to accelerate market growth

8.3.3 GERMANY

8.3.3.1 Rising implementation of cloud-based solutions in manufacturing facilities to drive market

8.3.4 FRANCE

8.3.4.1 Increasing allocation of funds to promote digital revolution to contribute to market growth

8.3.5 REST OF EUROPE

8.4 ASIA PACIFIC

8.4.1 MACROECONOMIC OUTLOOK FOR ASIA PACIFIC

8.4.2 CHINA

8.4.2.1 Rising government focus on R&D of IoT-based solutions to fuel market growth

8.4.3 JAPAN

8.4.3.1 Increasing trend of industrial automation to expedite market growth

8.4.4 INDIA

8.4.4.1 Rising deployment of industrial automation technologies to augment market growth

8.4.5 REST OF ASIA PACIFIC

8.5 ROW

8.5.1 MACROECONOMIC OUTLOOK FOR ROW

8.5.2 SOUTH AMERICA

8.5.2.1 Brazil

8.5.2.1.1 Rising emphasis on modernizing industrial sector to boost market growth

8.5.2.2 Rest of South America

8.5.3 MIDDLE EAST & AFRICA

8.5.3.1 Rapid digitalization and technology integration to foster market growth

8.5.3.2 GCC

8.5.3.3 Africa & Rest of Middle East

9 COMPETITIVE LANDSCAPE

9.1 OVERVIEW

9.2 KEY PLAYER STRATEGIES/RIGHT TO WIN, 2023–2025

9.3 MARKET SHARE ANALYSIS OF INDUSTRIAL ROBOTS, 2023

9.4 REVENUE ANALYSIS, 2019–2023

9.5 MARKET SHARE ANALYSIS OF INDUSTRIAL SENSORS, 2023

9.6 COMPANY VALUATION AND FINANCIAL METRICS

9.7 BRAND/PRODUCT COMPARISON

9.8 COMPANY EVALUATION MATRIX: KEY PLAYERS, 2023

9.8.1 STARS

9.8.2 EMERGING LEADERS

9.8.3 PERVASIVE PLAYERS

9.8.4 PARTICIPANTS

9.8.5 COMPANY FOOTPRINT: KEY PLAYERS, 2023

- 9.8.5.1 Company footprint
- 9.8.5.2 Payload footprint
- 9.8.5.3 Robot type footprint
- 9.8.5.4 End-use industry footprint
- 9.8.5.5 Region footprint

9.9 COMPANY EVALUATION MATRIX: STARTUPS/SMES, 2023

- 9.9.1 PROGRESSIVE COMPANIES
- 9.9.2 RESPONSIVE COMPANIES
- 9.9.3 DYNAMIC COMPANIES
- 9.9.4 STARTING BLOCKS
- 9.9.5 COMPETITIVE BENCHMARKING: STARTUPS/SMES, 2023
 - 9.9.5.1 Detailed list of key startups/SMEs
 - 9.9.5.2 Competitive benchmarking of key startups/SMEs

9.10 COMPETITIVE SCENARIO

- 9.10.1 PRODUCT LAUNCHES/DEVELOPMENTS
- 9.10.2 DEALS
- 9.10.3 EXPANSIONS
- 9.10.4 OTHER

10 COMPANY PROFILES

10.1 KEY PLAYERS

- 10.1.1 ABB
 - 10.1.1.1 Business overview
 - 10.1.1.2 Products/Solutions/Services offered
 - 10.1.1.3 Recent developments
 - 10.1.1.3.1 Product launches/developments
 - 10.1.1.3.2 Deals
 - 10.1.1.3.3 Expansions
 - 10.1.1.4 MnM view
 - 10.1.1.4.1 Key strengths/Right to win
 - 10.1.1.4.2 Strategic choices
 - 10.1.1.4.3 Weaknesses/Competitive threats
- 10.1.2 EMERSON ELECTRIC CO.
 - 10.1.2.1 Business overview
 - 10.1.2.2 Products/Solutions/Services offered
 - 10.1.2.3 Recent developments
 - 10.1.2.3.1 Product launches/developments

- 10.1.2.3.2 Deals
- 10.1.2.4 MnM view
 - 10.1.2.4.1 Key strengths/Right to win
 - 10.1.2.4.2 Strategic choices
 - 10.1.2.4.3 Weaknesses/Competitive threats
- 10.1.3 GENERAL ELECTRIC COMPANY
 - 10.1.3.1 Business overview
 - 10.1.3.2 Products/Solutions/Services offered
 - 10.1.3.3 Recent developments
 - 10.1.3.3.1 Product launches/developments
 - 10.1.3.3.2 Deals
 - 10.1.3.4 MnM view
 - 10.1.3.4.1 Key strengths/Right to win
 - 10.1.3.4.2 Strategic choices
 - 10.1.3.4.3 Weaknesses/Competitive threats
- 10.1.4 HONEYWELL INTERNATIONAL INC.
 - 10.1.4.1 Business overview
 - 10.1.4.2 Products/Solutions/Services offered
 - 10.1.4.3 Recent developments
 - 10.1.4.3.1 Product launches/developments
 - 10.1.4.3.2 Deals
 - 10.1.4.3.3 Others
 - 10.1.4.4 MnM view
 - 10.1.4.4.1 Key strengths/Right to win
 - 10.1.4.4.2 Strategic choices
 - 10.1.4.4.3 Weaknesses/Competitive threats
- 10.1.5 ROCKWELL AUTOMATION
 - 10.1.5.1 Business overview
 - 10.1.5.2 Products/Solutions/Services offered
 - 10.1.5.3 Recent developments
 - 10.1.5.3.1 Product launches/developments
 - 10.1.5.3.2 Deals
 - 10.1.5.3.3 Others
 - 10.1.5.4 MnM view
 - 10.1.5.4.1 Key strengths/Right to win
 - 10.1.5.4.2 Strategic choices
 - 10.1.5.4.3 Weaknesses/Competitive threats
- 10.1.6 SCHNEIDER ELECTRIC
 - 10.1.6.1 Business overview

- 10.1.6.2 Products/Solutions/Services offered
- 10.1.6.3 Recent developments
 - 10.1.6.3.1 Product launches/developments
 - 10.1.6.3.2 Deals
 - 10.1.6.3.3 Others
 - 10.1.6.3.4 Expansions
- 10.1.6.4 MnM view
 - 10.1.6.4.1 Key strengths/Right to win
 - 10.1.6.4.2 Strategic choices
 - 10.1.6.4.3 Weaknesses/Competitive threats
- 10.1.7 SIEMENS
 - 10.1.7.1 Business overview
 - 10.1.7.2 Products/Solutions/Services offered
 - 10.1.7.3 Recent developments
 - 10.1.7.3.1 Product launches/developments
 - 10.1.7.3.2 Deals
 - 10.1.7.3.3 Others
 - 10.1.7.4 MnM view
 - 10.1.7.4.1 Key strengths/Right to win
 - 10.1.7.4.2 Strategic choices
 - 10.1.7.4.3 Weaknesses/Competitive threats
- 10.1.8 YOKOGAWA ELECTRIC CORPORATION
 - 10.1.8.1 Business overview
 - 10.1.8.2 Products/Solutions/Services offered
 - 10.1.8.3 Recent developments
 - 10.1.8.3.1 Deals
 - 10.1.8.4 MnM view
 - 10.1.8.4.1 Key strengths/Right to win
 - 10.1.8.4.2 Strategic choices
 - 10.1.8.4.3 Weaknesses/Competitive threats
- 10.1.9 3D SYSTEMS, INC.
 - 10.1.9.1 Business overview
 - 10.1.9.2 Products/Solutions/Services offered
 - 10.1.9.3 Recent developments
 - 10.1.9.3.1 Deals
 - 10.1.9.3.2 Others
- 10.1.10 CISCO SYSTEMS, INC.
 - 10.1.10.1 Business overview
 - 10.1.10.2 Products/Solutions/Services offered

10.1.10.3 Recent developments

10.1.10.3.1 Deals

10.1.10.3.2 Others

10.1.11 IBM

10.1.11.1 Business overview

10.1.11.2 Products/Solutions/Services offered

10.1.11.3 Recent developments

10.1.11.3.1 Product launches/developments

10.1.11.3.2 Deals

10.1.11.3.3 Others

10.1.12 MITSUBISHI ELECTRIC CORPORATION

10.1.12.1 Business overview

10.1.12.2 Products/Solutions/Services offered

10.1.12.3 Recent developments

10.1.12.3.1 Product launches/developments

10.1.12.3.2 Deals

10.1.13 ORACLE

10.1.13.1 Business overview

10.1.13.2 Products/Solutions/Services offered

10.1.13.3 Recent developments

10.1.13.3.1 Product launches/developments

10.1.13.3.2 Deals

10.1.13.3.3 Others

10.1.13.3.4 Expansions

10.1.14 SAP

10.1.14.1 Business overview

10.1.14.2 Products/Solutions/Services offered

10.1.14.3 Recent developments

10.1.14.3.1 Deals

10.1.15 STRATASYS

10.1.15.1 Business overview

10.1.15.2 Products/Solutions/Services offered

10.1.15.3 Recent developments

10.1.15.3.1 Product launches/developments

10.1.15.3.2 Deals

10.1.15.3.3 Others

10.2 OTHER PLAYERS

10.2.1 COGNEX CORPORATION

10.2.2 GOOGLE

- 10.2.3 INTEL CORPORATION
- 10.2.4 KEYENCE CORPORATION
- 10.2.5 NVIDIA CORPORATION
- 10.2.6 PTC
- 10.2.7 SAMSUNG
- 10.2.8 SONY CORPORATION
- 10.2.9 UNIVERSAL ROBOTS A/S
- 10.2.10 OMRON CORPORATION
- 10.2.11 ADDVERB TECHNOLOGIES LIMITED
- 10.2.12 LOCUS ROBOTICS
- 10.2.13 EIRATECH ROBOTICS LTD.
- 10.2.14 GREYORANGE

11 APPENDIX

- 11.1 INSIGHTS FROM INDUSTRY EXPERTS
- 11.2 DISCUSSION GUIDE
- 11.3 KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL
- 11.4 CUSTOMIZATION OPTIONS
- 11.5 RELATED REPORTS
- 11.6 AUTHOR DETAILS

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