

# **Smart Factory Market based on by Component (Industrial Sensors, Industrial Robots, Industrial 3D Printers, Machine Vision Systems), Solution (SCADA, MES, Industrial Safety, PAM), Industry (Process Industry, Discrete Industry) and Region– Global Forecast up to 2030**

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## **Abstracts**

Future market expansion for the 'smart factory' will be propelled by the growing need for industrial robots. Robots, the internet of things, artificial intelligence, and information and smart sensor technologies are some of the instruments a smart factory uses to industrially automate and optimise its resources. The nonprofit International Federation of Robotics, with its headquarters in Germany, estimates that while robot installations are expected to rise by 13%, sales of new robots will only marginally grow by 0.5% in 2021. Thus, the primary driver of the development in the revenue of the smart factory market is the increasing sales of robots.

Thanks to 5G technology, owners of smart factories will be able to deploy cellular technologies more securely and tailor them for specific use cases. By embedding sensors on equipment connected to 5G networks, they may gather data from the production networks without having to establish a connection with the machines, allowing for smooth real-time optimisation. Between July and September of 2022, there were over 110 million additional 5G subscriptions added worldwide, bringing the total to about 870 million. Thanks to the installation of 5G networks in factories, wired connectivity is no longer required, enabling high-speed manufacturing with high flexibility and minimum downtime. The creation of the 5G network will offer industries a one-stop shop for solutions and create a plethora of opportunities for intelligent production.

## Research Methodology:

After secondary research provided a fundamental understanding of the worldwide Smart Factory Market scenario, extensive primary research was carried out. A number of primary interviews were carried out with industry experts from the supply and demand sides, including C- and D-level executives, product managers, and marketing and sales managers of major manufacturers, distributors, and channel partners from tier 1 and tier 2 companies offering biomarkers, as well as personnel from academia, research, and CROs. These interviews were conducted across five major regions: North America, Europe, Asia Pacific, and the Rest of the World (Latin America & the Middle East & Africa). Participants from the supply-side and demand-side participated in about 70% and 30% of the primary interviews, respectively. Through the use of questionnaires, emails, online surveys, in-person interviews, and phone interviews, this main data was gathered. The primary participants share is given below:

## Smart Factory Market on Component:

Industrial Sensors

Industrial Robots

Industrial 3D Printing

Machine Vision

## Smart Factory Market on Solution:

SCADA

MES

Industrial Safety

PAM

## Smart Factory Market on Industry:

*Smart Factory Market based on by Component (Industrial Sensors, Industrial Robots, Industrial 3D Printers, Mac...*

Process Industry

Discrete Industry

### Smart Factory Market on Geography:

North America

US

Canada

Europe

Germany

UK

France

Italy

Spain

Rest of Europe (RoE)

Asia Pacific (APAC)

China

Japan

India

Australia

South Korea

Rest of Asia Pacific (RoAPAC)

Latin America (LATAM)

Brazil

Argentina

Rest of South America

Middle East and Africa (MEA)

UAE

Turkey

Saudi Arabia

South Africa

Rest of Middle East & Africa

Wired and wireless connectivity are included in the Smart Factory Market segmentation based on connectivity. In terms of revenue from the Smart Factory Market in 2022, wireless connection ruled the market. Since the shift to virtual work emphasises the need for dependable, secure, scalable, and adaptable off-premises technology services, this trend is probably here to stay. Additionally, the substantial advantages of automated manufacturing processes—such as simple monitoring, waste reduction, and fast output—led to a notable increase in the market for wired connectivity.

The data from the Smart Factory Market has been divided into three categories: software, hardware, and services. Throughout the projected period, software is anticipated to dominate the market. Modern software will control robots, drones, and other equipment, reducing the chance of mistakes.

The worldwide smart factory market has been divided into many segments based on industry vertical, including electronics and semiconductors, aerospace and defence, automotive, oil and gas, chemicals, healthcare, and pharmaceuticals. In 2022, the

market was dominated by the automobile industry. In order to reduce waste, save expenses, and increase margins—many automakers are turning to smart manufacturing since their profitability are appalling. Additionally, the market helps automakers maintain a high degree of product homogeneity.

The report offers market information for North America, Europe, Asia-Pacific, and the rest of the world, broken down by region. The smart factory market in North America, which was valued at USD 43.6 billion in 2022, is anticipated to rise at a substantial compound annual growth rate (CAGR) over the course of the study. Numerous regional investment initiatives in the aerospace and defence, industrial, automotive, and North American health sectors are anticipated to result in substantial future growth. The Biden-Harris administration's \$225 million American Rescue Plan money will enable 13,000 Community Health Workers (CHWs) to get training. In order to minimise pandemic-related burnout and augment the healthcare staff, American Rescue Plan made unprecedented investments.

This report illustrates the most vital attributes of the Smart Factory Market, which are driving and providing opportunities.

This research gives an in-depth analysis of the Smart Factory Market growth on the basis of several segments in the market.

This report presents the predictions of the past and present trends of the Smart Factory Market.

This study also presents the competitive analysis, such as key strategies and capabilities of major players of the Smart Factory Market.

## Contents

### **1. EXECUTIVE SUMMARY**

### **2. INDUSTRY OUTLOOK**

- 2.1. Industry Overview
- 2.2. Industry Trends

### **3. MARKET SNAPSHOT**

- 3.1. Market Definition
- 3.2. Market Outlook
  - 3.2.1. Porter Five Forces
- 3.3. Related Markets

### **4. MARKET CHARACTERISTICS**

- 4.1. Market Overview
- 4.2. Market Segmentation
- 4.3. Market Dynamics
  - 4.3.1. Drivers
  - 4.3.2. Restraints
  - 4.3.3. Opportunities
- 4.4. DRO - Impact Analysis

### **5. COMPONENT: MARKET SIZE & ANALYSIS**

- 5.1. Overview
- 5.2. Industrial Sensors
- 5.3. Industrial Robots
- 5.4. Industrial 3D Printing
- 5.5. Machine Vision

### **6. SOLUTION: MARKET SIZE & ANALYSIS**

- 6.1. Overview
- 6.2. SCADA

6.3. MES

6.4. Industrial Safety

6.5. PAM

## **7. INDUSTRY: MARKET SIZE & ANALYSIS**

7.1. Overview

7.2. Process Industry

7.3. Discrete Industry

## **8. GEOGRAPHY: MARKET SIZE & ANALYSIS**

8.1. Overview

8.2. North America (U.S., Mexico, Canada)

8.3. Europe (France, Germany, UK, Italy, Netherlands, Spain, Russia, Rest of Europe)

8.4. Asia Pacific (Japan, China, India, Australia, South East Asia, Rest of APAC)

8.5. Latin America (Brazil, Argentina)

8.6. Middle East & Africa (Saudi Arabia, UAE, South Africa, Rest of Middle East and Africa)

## **9. COMPETITIVE LANDSCAPE**

9.1. Competitor Comparison Analysis

9.2. Market Developments

9.2.1. Mergers and Acquisitions, Legal, Awards, Partnerships

9.2.2. Product Launches and execution

## **10. VENDOR PROFILES**

10.1. Mitsubishi Electric Corporation

10.1.1. Overview

10.1.2. Financial Overview

10.1.3. Product Offerings

10.1.4. Developments

10.1.5. Business Strategy

10.2. FANUC Corporation

10.2.1. Overview

10.2.2. Financial Overview

10.2.3. Product Offerings

- 10.2.4. Developments
- 10.2.5. Business Strategy
- 10.3. Siemens AG
  - 10.3.1. Overview
  - 10.3.2. Financial Overview
  - 10.3.3. Product Offerings
  - 10.3.4. Developments
  - 10.3.5. Business Strategy
- 10.4. Honeywell International Inc.
  - 10.4.1. Overview
  - 10.4.2. Financial Overview
  - 10.4.3. Product Offerings
  - 10.4.4. Developments
  - 10.4.5. Business Strategy
- 10.5. Schneider Electric
  - 10.5.1. Overview
  - 10.5.2. Financial Overview
  - 10.5.3. Product Offerings
  - 10.5.4. Developments
  - 10.5.5. Business Strategy
- 10.6. ABB Ltd
  - 10.6.1. Overview
  - 10.6.2. Financial Overview
  - 10.6.3. Product Offerings
  - 10.6.4. Developments
  - 10.6.5. Business Strategy
- 10.7. Robert Bosch GmbH
  - 10.7.1. Overview
  - 10.7.2. Financial Overview
  - 10.7.3. Product Offerings
  - 10.7.4. Developments
  - 10.7.5. Business Strategy
- 10.8. Emerson Electric Co.
  - 10.8.1. Overview
  - 10.8.2. Financial Overview
  - 10.8.3. Product Offerings
  - 10.8.4. Developments
  - 10.8.5. Business Strategy
- 10.9. Cognex Corporation



- 10.9.1. Overview
- 10.9.2. Financial Overview
- 10.9.3. Product Offerings
- 10.9.4. Developments
- 10.9.5. Business Strategy
- 10.10. Atos SE
  - 10.10.1. Overview
  - 10.10.2. Financial Overview
  - 10.10.3. Product Offerings
  - 10.10.4. Developments
  - 10.10.5. Business Strategy

## **11. ANALYST OPINION**

## **12. ANNEXURE**

- 12.1. Report Scope
- 12.2. Market Definitions
- 12.3. Research Methodology
  - 12.3.1. Data Collation and In-house Estimation
  - 12.3.2. Market Triangulation
  - 12.3.3. Forecasting
- 12.4. Report Assumptions
- 12.5. Declarations
- 12.6. Stakeholders
- 12.7. Abbreviations

### Tables

TABLE 1. SMART FACTORY MARKET VALUE, BY COMPONENT, 2021-2030 (USD BILLION)

TABLE 2. SMART FACTORY MARKET VALUE FOR INDUSTRIAL SENSORS, BY GEOGRAPHY , 2021-2030 (USD BILLION)

TABLE 3. SMART FACTORY MARKET VALUE FOR INDUSTRIAL ROBOTS, BY GEOGRAPHY, 2021-2030 (USD BILLION)

TABLE 4. SMART FACTORY MARKET VALUE FOR INDUSTRIAL 3D PRINTING, BY GEOGRAPHY, 2021-2030 (USD BILLION)

TABLE 5. SMART FACTORY MARKET VALUE FOR MACHINE VISION, BY GEOGRAPHY, 2021-2030 (USD BILLION)

TABLE 6. SMART FACTORY MARKET VALUE, BY SOLUTION, 2021-2030 (USD

BILLION)

TABLE 7. SMART FACTORY MARKET VALUE FOR SCADA, 2021-2030 (USD BILLION)

TABLE 8. SMART FACTORY MARKET VALUE FOR MES, BY GEOGRAPHY, 2021-2030 (USD BILLION)

TABLE 9. SMART FACTORY MARKET VALUE FOR INDUSTRIAL SAFETY, BY GEOGRAPHY, 2021-2030 (USD BILLION)

TABLE 10. SMART FACTORY MARKET VALUE FOR PAM, BY GEOGRAPHY, 2021-2030 (USD BILLION)

TABLE 11. SMART FACTORY MARKET VALUE, BY INDUSTRY, 2021-2030 (USD BILLION)

TABLE 12. SMART FACTORY MARKET VALUE FOR PROCESS INDUSTRY, 2021-2030 (USD BILLION)

TABLE 13. SMART FACTORY MARKET VALUE FOR DISCRETE INDUSTRY, BY GEOGRAPHY, 2021-2030 (USD BILLION)

TABLE 14. NORTH AMERICA SMART FACTORY MARKET VALUE, BY COUNTRY, 2021-2030 (USD BILLION)

TABLE 15. NORTH AMERICA SMART FACTORY MARKET VALUE, BY COMPONENT, 2021-2030 (USD BILLION)

TABLE 16. NORTH AMERICA SMART FACTORY MARKET VALUE, BY SOLUTION, 2021-2030 (USD BILLION)

TABLE 17. NORTH AMERICA SMART FACTORY MARKET VALUE, BY INDUSTRY, 2021-2030 (USD BILLION)

TABLE 18. U.S SMART FACTORY MARKET VALUE, BY COMPONENT, 2021-2030 (USD BILLION)

TABLE 19. U.S SMART FACTORY MARKET VALUE, BY SOLUTION, 2021-2030 (USD BILLION)

TABLE 20. U.S SMART FACTORY MARKET VALUE, BY INDUSTRY, 2021-2030 (USD BILLION)

TABLE 21. CANADA SMART FACTORY MARKET VALUE, BY COMPONENT, 2021-2030 (USD BILLION)

TABLE 22. CANADA SMART FACTORY MARKET VALUE, BY SOLUTION, 2021-2030 (USD BILLION)

TABLE 23. CANADA SMART FACTORY MARKET VALUE, BY INDUSTRY, 2021-2030 (USD BILLION)

TABLE 24. MEXICO SMART FACTORY MARKET VALUE, BY COMPONENT, 2021-2030 (USD BILLION)

TABLE 25. MEXICO SMART FACTORY MARKET VALUE, BY SOLUTION, 2021-2030 (USD BILLION)

TABLE 26. MEXICO SMART FACTORY MARKET VALUE, BY INDUSTRY, 2021-2030 (USD BILLION)

TABLE 27. EUROPE SMART FACTORY MARKET VALUE, BY COUNTRY, 2021-2030 (USD BILLION)

TABLE 28. EUROPE SMART FACTORY MARKET VALUE, BY COMPONENT, 2021-2030 (USD BILLION)

TABLE 29. EUROPE SMART FACTORY MARKET VALUE, BY SOLUTION, 2021-2030 (USD BILLION)

TABLE 30. EUROPE SMART FACTORY MARKET VALUE, BY INDUSTRIES, 2021-2030 (USD BILLION)

TABLE 31. GERMANY SMART FACTORY MARKET VALUE, BY COMPONENT, 2021-2030 (USD BILLION)

TABLE 32. GERMANY SMART FACTORY MARKET VALUE, BY SOLUTION, 2021-2030 (USD BILLION)

TABLE 33. GERMANY SMART FACTORY MARKET VALUE, BY INDUSTRY, 2021-2030 (USD BILLION)

TABLE 34. U.K SMART FACTORY MARKET VALUE, BY COMPONENT, 2021-2030 (USD BILLION)

TABLE 35. U.K SMART FACTORY MARKET VALUE, BY SOLUTION, 2021-2030 (USD BILLION)

TABLE 36. U.K SMART FACTORY MARKET VALUE, BY INDUSTRY, 2021-2030 (USD BILLION)

TABLE 37. FRANCE SMART FACTORY MARKET VALUE, BY COMPONENT, 2021-2030 (USD BILLION)

TABLE 38. FRANCE SMART FACTORY MARKET VALUE, BY SOLUTION, 2021-2030 (USD BILLION)

TABLE 39. FRANCE SMART FACTORY MARKET VALUE, BY INDUSTRY, 2021-2030 (USD BILLION)

TABLE 40. ITALY SMART FACTORY MARKET VALUE, BY COMPONENT, 2021-2030 (USD BILLION)

TABLE 41. ITALY SMART FACTORY MARKET VALUE, BY SOLUTION, 2021-2030 (USD BILLION)

TABLE 42. ITALY SMART FACTORY MARKET VALUE, BY INDUSTRY, 2021-2030 (USD BILLION)

TABLE 43. SPAIN SMART FACTORY MARKET VALUE, BY COMPONENT, 2021-2030 (USD BILLION)

TABLE 44. SPAIN SMART FACTORY MARKET VALUE, BY SOLUTION, 2021-2030 (USD BILLION)

TABLE 45. SPAIN SMART FACTORY MARKET VALUE, BY INDUSTRY, 2021-2030

(USD BILLION)

TABLE 46. ROE SMART FACTORY MARKET VALUE, BY COMPONENT, 2021-2030

(USD BILLION)

TABLE 47. ROE SMART FACTORY MARKET VALUE, BY SOLUTION, 2021-2030

(USD BILLION)

TABLE 48. ROE SMART FACTORY MARKET VALUE, BY INDUSTRY, 2021-2030

(USD BILLION)

TABLE 49. ASIA PACIFIC SMART FACTORY MARKET VALUE, BY COUNTRY,  
2021-2030 (USD BILLION)

TABLE 50. ASIA PACIFIC SMART FACTORY MARKET VALUE, BY COMPONENT,  
2021-2030 (USD BILLION)

TABLE 51. ASIA PACIFIC SMART FACTORY MARKET VALUE, BY SOLUTION,  
2021-2030 (USD BILLION)

TABLE 52. ASIA PACIFIC SMART FACTORY MARKET VALUE, BY INDUSTRY,  
2021-2030 (USD BILLION)

TABLE 53. CHINA SMART FACTORY MARKET VALUE, BY COMPONENT,  
2021-2030 (USD BILLION)

TABLE 54. CHINA SMART FACTORY MARKET VALUE, BY SOLUTION, 2021-2030  
(USD BILLION)

TABLE 55. CHINA SMART FACTORY MARKET VALUE, BY INDUSTRY, 2021-2030  
(USD BILLION)

TABLE 56. INDIA SMART FACTORY MARKET VALUE, BY COMPONENT, 2021-2030  
(USD BILLION)

TABLE 57. INDIA SMART FACTORY MARKET VALUE, BY SOLUTION, 2021-2030  
(USD BILLION)

TABLE 58. INDIA SMART FACTORY MARKET VALUE, BY INDUSTRY, 2021-2030  
(USD BILLION)

TABLE 59. JAPAN SMART FACTORY MARKET VALUE, BY COMPONENT,  
2021-2030 (USD BILLION)

TABLE 60. JAPAN SMART FACTORY MARKET VALUE, BY SOLUTION, 2021-2030  
(USD BILLION)

TABLE 61. JAPAN SMART FACTORY MARKET VALUE, BY INDUSTRY, 2021-2030  
(USD BILLION)

TABLE 62. REST OF APAC SMART FACTORY MARKET VALUE, BY COMPONENT,  
2021-2030 (USD BILLION)

TABLE 63. REST OF APAC SMART FACTORY MARKET VALUE, BY SOLUTION,  
2021-2030 (USD BILLION)

TABLE 64. REST OF APAC SMART FACTORY MARKET VALUE, BY INDUSTRY,  
2021-2030 (USD BILLION)

TABLE 65. LATIN AMERICA SMART FACTORY MARKET VALUE, BY COMPONENT, 2021-2030 (USD BILLION)

TABLE 66. LATIN AMERICA SMART FACTORY MARKET VALUE, BY SOLUTION, 2021-2030 (USD BILLION)

TABLE 67. LATIN AMERICA SMART FACTORY MARKET VALUE, BY INDUSTRY, 2021-2030 (USD BILLION)

TABLE 68. BRAZIL SMART FACTORY MARKET VALUE, BY COMPONENT, 2021-2030 (USD BILLION)

TABLE 69. BRAZIL SMART FACTORY MARKET VALUE, BY SOLUTION, 2021-2030 (USD BILLION)

TABLE 70. BRAZIL SMART FACTORY MARKET VALUE, BY INDUSTRY, 2021-2030 (USD BILLION)

TABLE 71. ARGENTINA SMART FACTORY MARKET VALUE, BY COMPONENT, 2021-2030 (USD BILLION)

TABLE 72. ARGENTINA SMART FACTORY MARKET VALUE, BY SOLUTION, 2021-2030 (USD BILLION)

TABLE 73. ARGENTINA SMART FACTORY MARKET VALUE, BY INDUSTRY, 2021-2030 (USD BILLION)

TABLE 74. MIDDLE EAST AND AFRICA SMART FACTORY MARKET VALUE, BY COMPONENT, 2021-2030 (USD BILLION)

TABLE 75. MIDDLE EAST AND AFRICA SMART FACTORY MARKET VALUE, BY SOLUTION, 2021-2030 (USD BILLION)

TABLE 76. MIDDLE EAST AND AFRICA SMART FACTORY MARKET VALUE, BY INDUSTRY, 2021-2030 (USD BILLION)

TABLE 77. SAUDI ARABIA SMART FACTORY MARKET VALUE, BY COMPONENT, 2021-2030 (USD BILLION)

TABLE 78. SAUDI ARABIA SMART FACTORY MARKET VALUE, BY SOLUTION, 2021-2030 (USD BILLION)

TABLE 79. SAUDI ARABIA SMART FACTORY MARKET VALUE, BY INDUSTRY, 2021-2030 (USD BILLION)

TABLE 80. UAE SMART FACTORY MARKET VALUE, BY COMPONENT, 2021-2030 (USD BILLION)

TABLE 81. UAE SMART FACTORY MARKET VALUE, BY SOLUTION, 2021-2030 (USD BILLION)

TABLE 82. UAE SMART FACTORY MARKET VALUE, BY INDUSTRY, 2021-2030 (USD BILLION)

TABLE 83. REST OF MIDDLE EAST AND AFRICA SMART FACTORY MARKET VALUE, BY COMPONENT, 2021-2030 (USD BILLION)

TABLE 84. REST OF MIDDLE EAST AND AFRICA SMART FACTORY MARKET

VALUE, BY SOLUTION, 2021-2030 (USD BILLION)

TABLE 85. REST OF MIDDLE EAST AND AFRICA SMART FACTORY MARKET

VALUE, BY INDUSTRY, 2021-2030 (USD BILLION)

TABLE 86. MITSUBISHI ELECTRIC CORPORATION: FINANCIALS

TABLE 87. MITSUBISHI ELECTRIC CORPORATION: PRODUCTS & SERVICES

TABLE 88. MITSUBISHI ELECTRIC CORPORATION: RECENT DEVELOPMENTS

TABLE 89. FANUC CORPORATION: FINANCIALS

TABLE 90. FANUC CORPORATION: PRODUCTS & SERVICES

TABLE 91. FANUC CORPORATION: RECENT DEVELOPMENTS

TABLE 92. SIEMENS AG: FINANCIALS

TABLE 93. SIEMENS AG: PRODUCTS & SERVICES

TABLE 94. SIEMENS AG: RECENT DEVELOPMENTS

TABLE 95. HONEYWELL INTERNATIONAL INC.: FINANCIALS

TABLE 96. HONEYWELL INTERNATIONAL INC.: PRODUCTS & SERVICES

TABLE 97. HONEYWELL INTERNATIONAL INC.: RECENT DEVELOPMENTS

TABLE 98. SCHNEIDER ELECTRIC: FINANCIALS

TABLE 99. SCHNEIDER ELECTRIC: PRODUCTS & SERVICES

TABLE 100. SCHNEIDER ELECTRIC: RECENT DEVELOPMENTS

TABLE 101. ABB LTD: FINANCIALS

TABLE 102. ABB LTD: PRODUCTS & SERVICES

TABLE 103. ABB LTD: RECENT DEVELOPMENTS

TABLE 104. ROBERT BOSCH GMBH: FINANCIALS

TABLE 105. ROBERT BOSCH GMBH: PRODUCTS & SERVICES

TABLE 106. ROBERT BOSCH GMBH: DEVELOPMENTS

TABLE 107. EMERSON ELECTRIC CO.: FINANCIALS

TABLE 108. EMERSON ELECTRIC CO.: PRODUCTS & SERVICES

TABLE 109. EMERSON ELECTRIC CO.: RECENT DEVELOPMENTS

TABLE 110. COGNEX CORPORATION: FINANCIALS

TABLE 111. COGNEX CORPORATION: PRODUCTS & SERVICES

TABLE 112. COGNEX CORPORATION: RECENT DEVELOPMENTS

TABLE 113. ATOS SE: FINANCIALS

TABLE 114. ATOS SE: PRODUCTS & SERVICES

TABLE 115. ATOS SE: RECENT DEVELOPMENTS

Charts

CHART. 1. SMART FACTORY MARKET VALUE, BY COMPONENT, 2021-2030 (USD BILLION)

CHART. 2. SMART FACTORY MARKET VALUE FOR INDUSTRIAL SENSORS, BY GEOGRAPHY, 2021-2030 (USD BILLION)

CHART. 3. SMART FACTORY MARKET VALUE FOR INDUSTRIAL ROBOTS, BY



GEOGRAPHY, 2021-2030 (USD BILLION)

CHART. 4. SMART FACTORY MARKET VALUE FOR INDUSTRIAL 3D PRINTING, BY GEOGRAPHY, 2021-2030 (USD BILLION)

CHART. 5. SMART FACTORY MARKET VALUE FOR MACHINE VISION, BY GEOGRAPHY, 2021-2030 (USD BILLION)

CHART. 6. SMART FACTORY MARKET VALUE, BY SOLUTION, 2021-2030 (USD BILLION)

CHART. 7. SMART FACTORY MARKET VALUE FOR SCADA, 2021-2030 (USD BILLION)

CHART. 8. SMART FACTORY MARKET VALUE FOR MES, BY GEOGRAPHY, 2021-2030 (USD BILLION)

CHART. 9. SMART FACTORY MARKET VALUE FOR INDUSTRIAL SAFETY, BY GEOGRAPHY, 2021-2030 (USD BILLION)

CHART. 10. SMART FACTORY MARKET VALUE FOR PAM, BY GEOGRAPHY, 2021-2030 (USD BILLION)

CHART. 11. SMART FACTORY MARKET VALUE, BY INDUSTRY, 2021-2030 (USD BILLION)

CHART. 12. SMART FACTORY MARKET VALUE FOR PROCESS INDUSTRY, 2021-2030 (USD BILLION)

CHART. 13. SMART FACTORY MARKET VALUE FOR DISCRETE INDUSTRY, BY GEOGRAPHY, 2021-2030 (USD BILLION)

CHART. 14. NORTH AMERICA SMART FACTORY MARKET VALUE, BY COUNTRY, 2021-2030 (USD BILLION)

CHART. 15. NORTH AMERICA SMART FACTORY MARKET VALUE, BY COMPONENT, 2021-2030 (USD BILLION)

CHART. 16. NORTH AMERICA SMART FACTORY MARKET VALUE, BY SOLUTION, 2021-2030 (USD BILLION)

CHART. 17. NORTH AMERICA SMART FACTORY MARKET VALUE, BY INDUSTRY, 2021-2030 (USD BILLION)

CHART. 18. U.S SMART FACTORY MARKET VALUE, BY COMPONENT, 2021-2030 (USD BILLION)

CHART. 19. U.S SMART FACTORY MARKET VALUE, BY SOLUTION, 2021-2030 (USD BILLION)

CHART. 20. U.S SMART FACTORY MARKET VALUE, BY INDUSTRY, 2021-2030 (USD BILLION)

CHART. 21. CANADA SMART FACTORY MARKET VALUE, BY COMPONENT, 2021-2030 (USD BILLION)

CHART. 22. CANADA SMART FACTORY MARKET VALUE, BY SOLUTION, 2021-2030 (USD BILLION)

- CHART. 23. CANADA SMART FACTORY MARKET VALUE, BY INDUSTRY, 2021-2030 (USD BILLION)
- CHART. 24. MEXICO SMART FACTORY MARKET VALUE, BY COMPONENT, 2021-2030 (USD BILLION)
- CHART. 25. MEXICO SMART FACTORY MARKET VALUE, BY SOLUTION, 2021-2030 (USD BILLION)
- CHART. 26. MEXICO SMART FACTORY MARKET VALUE, BY INDUSTRY, 2021-2030 (USD BILLION)
- CHART. 27. EUROPE SMART FACTORY MARKET VALUE, BY COUNTRY, 2021-2030 (USD BILLION)
- CHART. 28. EUROPE SMART FACTORY MARKET VALUE, BY COMPONENT, 2021-2030 (USD BILLION)
- CHART. 29. EUROPE SMART FACTORY MARKET VALUE, BY SOLUTION, 2021-2030 (USD BILLION)
- CHART. 30. EUROPE SMART FACTORY MARKET VALUE, BY INDUSTRIES, 2021-2030 (USD BILLION)
- CHART. 31. GERMANY SMART FACTORY MARKET VALUE, BY COMPONENT, 2021-2030 (USD BILLION)
- CHART. 32. GERMANY SMART FACTORY MARKET VALUE, BY SOLUTION, 2021-2030 (USD BILLION)
- CHART. 33. GERMANY SMART FACTORY MARKET VALUE, BY INDUSTRY, 2021-2030 (USD BILLION)
- CHART. 34. U.K SMART FACTORY MARKET VALUE, BY COMPONENT, 2021-2030 (USD BILLION)
- CHART. 35. U.K SMART FACTORY MARKET VALUE, BY SOLUTION, 2021-2030 (USD BILLION)
- CHART. 36. U.K SMART FACTORY MARKET VALUE, BY INDUSTRY, 2021-2030 (USD BILLION)
- CHART. 37. FRANCE SMART FACTORY MARKET VALUE, BY COMPONENT, 2021-2030 (USD BILLION)
- CHART. 38. FRANCE SMART FACTORY MARKET VALUE, BY SOLUTION, 2021-2030 (USD BILLION)
- CHART. 39. FRANCE SMART FACTORY MARKET VALUE, BY INDUSTRY, 2021-2030 (USD BILLION)
- CHART. 40. ITALY SMART FACTORY MARKET VALUE, BY COMPONENT, 2021-2030 (USD BILLION)
- CHART. 41. ITALY SMART FACTORY MARKET VALUE, BY SOLUTION, 2021-2030 (USD BILLION)
- CHART. 42. ITALY SMART FACTORY MARKET VALUE, BY INDUSTRY, 2021-2030 (USD BILLION)



(USD BILLION)

CHART. 43. SPAIN SMART FACTORY MARKET VALUE, BY COMPONENT, 2021-2030 (USD BILLION)

CHART. 44. SPAIN SMART FACTORY MARKET VALUE, BY SOLUTION, 2021-2030 (USD BILLION)

CHART. 45. SPAIN SMART FACTORY MARKET VALUE, BY INDUSTRY, 2021-2030 (USD BILLION)

CHART. 46. ROE SMART FACTORY MARKET VALUE, BY COMPONENT, 2021-2030 (USD BILLION)

CHART. 47. ROE SMART FACTORY MARKET VALUE, BY SOLUTION, 2021-2030 (USD BILLION)

CHART. 48. ROE SMART FACTORY MARKET VALUE, BY INDUSTRY, 2021-2030 (USD BILLION)

CHART. 49. ASIA PACIFIC SMART FACTORY MARKET VALUE, BY COUNTRY, 2021-2030 (USD BILLION)

CHART. 50. ASIA PACIFIC SMART FACTORY MARKET VALUE, BY COMPONENT, 2021-2030 (USD BILLION)

CHART. 51. ASIA PACIFIC SMART FACTORY MARKET VALUE, BY SOLUTION, 2021-2030 (USD BILLION)

CHART. 52. ASIA PACIFIC SMART FACTORY MARKET VALUE, BY INDUSTRY, 2021-2030 (USD BILLION)

CHART. 53. CHINA SMART FACTORY MARKET VALUE, BY COMPONENT, 2021-2030 (USD BILLION)

CHART. 54. CHINA SMART FACTORY MARKET VALUE, BY SOLUTION, 2021-2030 (USD BILLION)

CHART. 55. CHINA SMART FACTORY MARKET VALUE, BY INDUSTRY, 2021-2030 (USD BILLION)

CHART. 56. INDIA SMART FACTORY MARKET VALUE, BY COMPONENT, 2021-2030 (USD BILLION)

CHART. 57. INDIA SMART FACTORY MARKET VALUE, BY SOLUTION, 2021-2030 (USD BILLION)

CHART. 58. INDIA SMART FACTORY MARKET VALUE, BY INDUSTRY, 2021-2030 (USD BILLION)

CHART. 59. JAPAN SMART FACTORY MARKET VALUE, BY COMPONENT, 2021-2030 (USD BILLION)

CHART. 60. JAPAN SMART FACTORY MARKET VALUE, BY SOLUTION, 2021-2030 (USD BILLION)

CHART. 61. JAPAN SMART FACTORY MARKET VALUE, BY INDUSTRY, 2021-2030 (USD BILLION)

CHART. 62. REST OF APAC SMART FACTORY MARKET VALUE, BY COMPONENT, 2021-2030 (USD BILLION)

CHART. 63. REST OF APAC SMART FACTORY MARKET VALUE, BY SOLUTION, 2021-2030 (USD BILLION)

CHART. 64. REST OF APAC SMART FACTORY MARKET VALUE, BY INDUSTRY, 2021-2030 (USD BILLION)

CHART. 65. LATIN AMERICA SMART FACTORY MARKET VALUE, BY COMPONENT, 2021-2030 (USD BILLION)

CHART. 66. LATIN AMERICA SMART FACTORY MARKET VALUE, BY SOLUTION, 2021-2030 (USD BILLION)

CHART. 67. LATIN AMERICA SMART FACTORY MARKET VALUE, BY INDUSTRY, 2021-2030 (USD BILLION)

CHART. 68. BRAZIL SMART FACTORY MARKET VALUE, BY COMPONENT, 2021-2030 (USD BILLION)

CHART. 69. BRAZIL SMART FACTORY MARKET VALUE, BY SOLUTION, 2021-2030 (USD BILLION)

CHART. 70. BRAZIL SMART FACTORY MARKET VALUE, BY INDUSTRY, 2021-2030 (USD BILLION)

CHART. 71. ARGENTINA SMART FACTORY MARKET VALUE, BY COMPONENT, 2021-2030 (USD BILLION)

CHART. 72. ARGENTINA SMART FACTORY MARKET VALUE, BY SOLUTION, 2021-2030 (USD BILLION)

CHART. 73. ARGENTINA SMART FACTORY MARKET VALUE, BY INDUSTRY, 2021-2030 (USD BILLION)

CHART. 74. MIDDLE EAST AND AFRICA SMART FACTORY MARKET VALUE, BY COMPONENT, 2021-2030 (USD BILLION)

CHART. 75. MIDDLE EAST AND AFRICA SMART FACTORY MARKET VALUE, BY SOLUTION, 2021-2030 (USD BILLION)

CHART. 76. MIDDLE EAST AND AFRICA SMART FACTORY MARKET VALUE, BY INDUSTRY, 2021-2030 (USD BILLION)

CHART. 77. SAUDI ARABIA SMART FACTORY MARKET VALUE, BY COMPONENT, 2021-2030 (USD BILLION)

CHART. 78. SAUDI ARABIA SMART FACTORY MARKET VALUE, BY SOLUTION, 2021-2030 (USD BILLION)

CHART. 79. SAUDI ARABIA SMART FACTORY MARKET VALUE, BY INDUSTRY, 2021-2030 (USD BILLION)

CHART. 80. UAE SMART FACTORY MARKET VALUE, BY COMPONENT, 2021-2030 (USD BILLION)

CHART. 81. UAE SMART FACTORY MARKET VALUE, BY SOLUTION, 2021-2030

(USD BILLION)

CHART. 82. UAE SMART FACTORY MARKET VALUE, BY INDUSTRY, 2021-2030

(USD BILLION)

CHART. 83. REST OF MIDDLE EAST AND AFRICA SMART FACTORY MARKET VALUE, BY COMPONENT, 2021-2030 (USD BILLION)

CHART. 84. REST OF MIDDLE EAST AND AFRICA SMART FACTORY MARKET VALUE, BY SOLUTION, 2021-2030 (USD BILLION)

CHART. 85. REST OF MIDDLE EAST AND AFRICA SMART FACTORY MARKET VALUE, BY INDUSTRY, 2021-2030 (USD BILLION)

CHART. 86. MITSUBISHI ELECTRIC CORPORATION: FINANCIALS

CHART. 87. MITSUBISHI ELECTRIC CORPORATION: PRODUCTS & SERVICES

CHART. 88. MITSUBISHI ELECTRIC CORPORATION: RECENT DEVELOPMENTS

CHART. 89. FANUC CORPORATION: FINANCIALS

CHART. 90. FANUC CORPORATION: PRODUCTS & SERVICES

CHART. 91. FANUC CORPORATION: RECENT DEVELOPMENTS

CHART. 92. SIEMENS AG: FINANCIALS

CHART. 93. SIEMENS AG: PRODUCTS & SERVICES

CHART. 94. SIEMENS AG: RECENT DEVELOPMENTS

CHART. 95. HONEYWELL INTERNATIONAL INC.: FINANCIALS

CHART. 96. HONEYWELL INTERNATIONAL INC.: PRODUCTS & SERVICES

CHART. 97. HONEYWELL INTERNATIONAL INC.: RECENT DEVELOPMENTS

CHART. 98. SCHNEIDER ELECTRIC: FINANCIALS

CHART. 99. SCHNEIDER ELECTRIC: PRODUCTS & SERVICES

CHART. 100. SCHNEIDER ELECTRIC: RECENT DEVELOPMENTS

CHART. 101. ABB LTD: FINANCIALS

CHART. 102. ABB LTD: PRODUCTS & SERVICES

CHART. 103. ABB LTD: RECENT DEVELOPMENTS

CHART. 104. ROBERT BOSCH GMBH: FINANCIALS

CHART. 105. ROBERT BOSCH GMBH: PRODUCTS & SERVICES

CHART. 106. ROBERT BOSCH GMBH: DEVELOPMENTS

CHART. 107. EMERSON ELECTRIC CO.: FINANCIALS

CHART. 108. EMERSON ELECTRIC CO.: PRODUCTS & SERVICES

CHART. 109. EMERSON ELECTRIC CO.: RECENT DEVELOPMENTS

CHART. 110. COGNEX CORPORATION: FINANCIALS

CHART. 111. COGNEX CORPORATION: PRODUCTS & SERVICES

CHART. 112. COGNEX CORPORATION: RECENT DEVELOPMENTS

CHART. 113. ATOS SE: FINANCIALS

CHART. 114. ATOS SE: PRODUCTS & SERVICES

CHART. 115. ATOS SE: RECENT DEVELOPMENTS

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