

Industrial Automation Market by Component (Plant-level Controls, Enterprise-level Controls, Plant Instrumentation), Mode of Automation (Semi-automatic, Fully-automatic), and End User (Oil & Gas, Automotive, Food & Beverage, Chemicals & Materials)—Global Forecast to 2027

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Abstracts

Industrial Automation Market by Component (Plant-level Controls, Enterprise-level Controls), Mode of Automation (Semi-automatic, Fully-automatic), and End User (Oil & Gas, Automotive, Food & Beverage, Chemicals & Materials)—Global Forecast to 2027

The industrial automation market is expected to record a CAGR of 9.3% from 2020 to 2027 to reach \$306.2 billion by 2027.

Succeeding extensive secondary and primary research and an in-depth analysis of the market scenario, the report carries out an impact analysis of the key industry drivers, restraints, and opportunities. The increasing popularity of industrial robots and enterprise-level controls and the rising awareness regarding the benefits of automation among end-use industries are the factors propelling the growth of the industrial automation market. The growing adoption of industrial IoT and machine learning technologies supports the implementation of automation across end-use industries due to benefits such as reduced costs from predictive maintenance and increased operational efficiency. Robotic installations are increasing rapidly to replace human workers completely or assist them in intensive tasks to eliminate production errors.

The growing popularity of plant instrumentation and enterprise-level control components for automating hardware and software across industries supports the growth of the

industrial automation market. The growing need for monitoring, controlling, and analyzing machine operations and predicting downtime & faults drives the need for sensors. A wide range of sensor technologies has been developed to address different applications and environments. Proximity sensors, vision sensors, ultrasonic sensors, position sensors, photoelectric sensors, temperature sensors, and inclination sensors are some of the sensors used in automation applications. The development of automation solutions with integrated sensors increases the performance efficiency of manufacturing plants and allows companies to manage operating costs.

The COVID-19 pandemic has moderately impacted industrial operations and manufacturing activities globally, affecting the growth of the industrial automation market. Lowered demand for luxury goods, automobiles, and electronics and countrywide lockdowns during the pandemic have reduced sales revenues in the automotive, consumer electronics, and consumer goods industries. These factors also impacted investments in industrial automation solutions during 2020. The industrial automation market is expected to recover steadily in 2021 and 2022 as companies are projected to implement automated systems to minimize human intervention in industrial and manufacturing processes.

Based on component, the industrial automation market is segmented into plant instrumentation, plant-level controls, and enterprise-level controls. The plant instrumentation segment is projected to witness considerable growth over the forecast period due to the growing need for sensors, robots, and machine vision systems among both basic and advanced manufacturing facilities. Machine vision enables machines to use vision for performing industrial tasks. It uses cameras, sensors, and computing power to help machines understand images and perform industrial tasks such as manufacturing and quality verification. These features enable companies to monitor production & industrial operations and minimize errors in the final products.

Based on end user, the industrial automation market has been segmented as oil & gas, chemicals & materials, paper & pulp, pharmaceuticals & biotech, mining & metals, food & beverage, power, consumer goods, automotive, machines & tools, semiconductors & electronics, aerospace & defense, and other end users. In 2020, the oil & gas segment accounted for the largest share of the overall market, due to the heavy implementation of industrial automation solutions across upstream, midstream, and downstream processes. Benefits of implementing industrial automation solutions include optimized supply chain and spare parts management, elimination of organizational inefficiencies, and improved workforce deployment. Key players in the industrial automation market have launched their IIoT platforms, such as Honeywell's Sentience, ABB's Ability,

Schneider Electric's EcoStruxture, and Siemens's MindSphere to support the digitalization of oil fields.

An in-depth analysis of the geographical scenario of the industrial automation market provides detailed qualitative and quantitative insights about the five major geographies (North America, Europe, Asia-Pacific, Latin America, and the Middle East & Africa) along with the coverage of major countries in each region. In 2020, Asia-Pacific commanded the largest share of the industrial automation market, followed by Europe, North America, Latin America, and the Middle East & Africa.

The key players operating in the industrial automation market are ABB Group (Switzerland), Rockwell Automation (U.S.), Siemens AG (Germany), Yaskawa Electric Corporation (Japan), Schneider Electric (France), Yokogawa Electric Corporation (Japan), KUKA AG (Germany), Emerson Electric (U.S.), Fanuc (Japan), Honeywell International (U.S.), Mitsubishi Electric Corporation (Japan), OMRON Corporation (Japan), Advantech Co., Ltd. (Taiwan), and Fuji Electric Co., Ltd. (Japan).

Scope

Industrial Automation Market, by Component

Enterprise-level Controls

Product Lifecycle Management (PLM)

Enterprise Resource Planning (ERP)

Manufacturing Execution Systems (MES)

Plant Instrumentation

Motors & Drives

Robots

Articulated Robots

Cartesian Robots

Selective Compliance Assembly Robot Arms (SCARA)

Collaborative Robots

Other Robots

Sensors

Machine Vision Systems

Cameras

Optics and LED Lighting

Relays & Switches

Other Plant Instrumentation Components

Plant-level Controls

Supervisory Control and Data Acquisition (SCADA)

Distributed Control Systems (DCS)

Programmable Logic Controllers (PLC)

Other Plant-level Controls

Industrial Automation Market, by Mode of Automation

Semi-automatic

Fully-automatic

Industrial Automation Market, by End User

Oil & Gas

Upstream

Midstream

Downstream

Chemicals & Materials

Paper & Pulp

Pharmaceuticals & Biotech

Mining & Metals

Food & Beverage

Beverages & Distilleries

Dairy Processing

Bakery & Confectionary

Meat, Poultry, and Seafood Products

Fruits & Vegetables

Oil & Fats

Other F&B End Users

Power

Consumer Goods

Automotive

Machines & Tools

Semiconductors & Electronics

Aerospace & Defense

Other End Users

Industrial Automation Market, by Geography

North America

U.S.

Canada

Europe

U.K.

Germany

France

Italy

Spain

Netherlands

Sweden

Rest of Europe

Asia-Pacific (APAC)

China

India

Japan

South Korea

Singapore

Rest of APAC

Latin America

Brazil

Mexico

Rest of Latin America

Middle East & Africa (MEA)

UAE

Saudi Arabia

South Africa

Rest of the Middle East & Africa

Contents

1. INTRODUCTION

- 1.1. Market Definition
- 1.2. Market Ecosystem
- 1.3. Currency and Limitations
 - 1.3.1. Key Stakeholders

2. RESEARCH METHODOLOGY

- 2.1. Research Process
- 2.2. Data Collection & Validation
 - 2.2.2. Primary Research
 - 2.2.3. Market Size Estimation

3. EXECUTIVE SUMMARY

4. MARKET INSIGHTS

- 4.1. Introduction
- 4.2. Market Dynamics
 - 4.2.1. Drivers
 - 4.2.1.1. Increasing Adoption of Robots in the Manufacturing Sector
 - 4.2.1.2. Government Initiatives to Promote Industrial Development
 - 4.2.1.3. Rising Investments for Transforming Conventional Production Facilities
 - 4.2.1.4. High Labor Cost in North America and Europe
 - 4.2.1.5. Growing Demand for Safe and Digitized Production Processes
 - 4.2.2. Restraints
 - 4.2.2.1. High Initial Investment
 - 4.2.3. Opportunities
 - 4.2.3.1. Growing Number of SMEs
 - 4.2.3.2. Rising Demand for IIoT in Southeast Asia's Manufacturing Sector
 - 4.2.4. Challenges
 - 4.2.4.2. Cyber Risks Associated with Automated Systems
- 4.3. Value Chain Analysis
 - 4.3.1. Raw Material Providers
 - 4.3.2. Hardware & Software Developers
 - 4.3.3. Plant Instrumentation

- 4.3.4. Plant-level Controls
- 4.3.5. Enterprise-level Controls
- 4.3.6. System Integrators
- 4.3.7. End Users
- 4.4. The Impact of COVID-19 on the Industrial Automation Market
 - 4.4.1. Scenario A: Severe Impact
 - 4.4.2. Scenario B: Slow Recovery
 - 4.4.3. Scenario C: Fast Recovery
- 4.5. Impact of AI and Blockchain on the Industrial Automation Market
- 4.6. Advent of 5G in Industrial Automation

5. GLOBAL INDUSTRIAL AUTOMATION MARKET, BY COMPONENT

- 5.1. Introduction
- 5.2. Enterprise-level Controls
 - 5.2.1. Product Lifecycle Management (PLM)
 - 5.2.2. Enterprise Resource Planning (ERP)
 - 5.2.3. Manufacturing Execution Systems (MES)
- 5.3. Plant Instrumentation
 - 5.3.1. Motors & Drives
 - 5.3.2. Robots
 - 5.3.2.1. Articulated Robots
 - 5.3.2.2. SCARA
 - 5.3.2.3. Collaborative Robots
 - 5.3.2.4. Cartesian Robots
 - 5.3.2.5. Other Robots
 - 5.3.3. Sensors
 - 5.3.4. Machine Vision Systems
 - 5.3.4.1. Cameras
 - 5.3.4.2. Optics and LED Lighting
 - 5.3.5. Relays & Switches
 - 5.3.6. Other Plant Instrumentation Components
- 5.4. Plant-level Controls
 - 5.4.1. Supervisory Control and Data Acquisition (SCADA)
 - 5.4.2. Distributed Control Systems (DCS)
 - 5.4.3. Programmable Logic Controllers (PLC)
 - 5.4.4. Other Plant-level Controls

6. GLOBAL INDUSTRIAL AUTOMATION MARKET, BY MODE OF AUTOMATION

- 6.1. Introduction
- 6.2. Semi-automatic Systems
- 6.3. Fully-automatic Systems

7. GLOBAL INDUSTRIAL AUTOMATION MARKET, BY END USER

- 7.1. Introduction
- 7.2. Oil & Gas
 - 7.2.1. Upstream
 - 7.2.2. Downstream
 - 7.2.3. Midstream
- 7.3. Automotive
- 7.4. Food & Beverage
 - 7.4.1. Dairy Processing
 - 7.4.2. Beverages & Distilleries
 - 7.4.3. Bakery & Confectionery
 - 7.4.4. Oils & Fats
 - 7.4.5. Meat, Poultry, and Seafood Products
 - 7.4.6. Fruits & Vegetables
 - 7.4.7. Others
- 7.5. Semiconductors & Electronics
- 7.6. Chemicals & Materials
- 7.7. Consumer Goods
- 7.8. Mining & Metals
- 7.9. Power
- 7.10. Pharmaceuticals & Biotech
- 7.11. Machines & Tools
- 7.12. Paper & Pulp
- 7.13. Aerospace & Defense
- 7.14. Other End Users

8. INDUSTRIAL AUTOMATION MARKET, BY GEOGRAPHY

- 8.1. Introduction
- 8.2. Asia-pacific
 - 8.2.1. China
 - 8.2.2. Japan
 - 8.2.3. India

- 8.2.4. South Korea
- 8.2.5. Singapore
- 8.2.6. Rest of Asia-Pacific (RoAPAC)
- 8.3. Europe
 - 8.3.1. Germany
 - 8.3.2. U.K.
 - 8.3.3. Italy
 - 8.3.4. The Netherlands
 - 8.3.5. Sweden
 - 8.3.6. France
 - 8.3.7. Spain
 - 8.3.8. Rest of Europe (RoE)
- 8.4. North America
 - 8.4.1. U.S.
 - 8.4.2. Canada
- 8.5. Latin America
 - 8.5.1. Brazil
 - 8.5.2. Mexico
 - 8.5.3. Rest of Latin America (RoLATAM)
- 8.6. Middle East & Africa
 - 8.6.1. South Africa
 - 8.6.2. UAE
 - 8.6.3. Saudi Arabia
 - 8.6.4. Rest of the Middle East & Africa (RoMEA)

9. COMPETITIVE LANDSCAPE

- 9.1. Introduction
- 9.2. Key Growth Strategies
- 9.3. Market Share Analysis (2020)
 - 9.3.1. Siemens AG
 - 9.3.2. Mitsubishi Electric Corporation
 - 9.3.3. Emerson Electric Co.
 - 9.3.4. ABB Group
 - 9.3.5. Schneider Electric SE

10. COMPANY PROFILES (BUSINESS OVERVIEW, FINANCIAL OVERVIEW, PRODUCT PORTFOLIO, AND STRATEGIC DEVELOPMENTS)

- 10.1. Siemens AG
- 10.2. Emerson Electric Co.
- 10.3. Mitsubishi Electric Corporation
- 10.4. ABB Group
- 10.5. Schneider Electric SE
- 10.6. Rockwell Automation, Inc.
- 10.7. Yaskawa Electric Corporation
- 10.8. Yokogawa Electric Corporation
- 10.9. Fanuc Corporation
- 10.10. Honeywell International Inc
- 10.11. Kuka AG
- 10.12. General Electric Company
- 10.13. Omron Corporation
- 10.14. Advantech Co., Ltd.
- 10.15. Fuji Electric Co., Ltd.

11. APPENDIX

- 11.1. Questionnaire
- 11.2. Available Customization

List Of Tables

LIST OF TABLES

Table 1 The Impact of COVID-19 on the Global Industrial Automation Market (USD Million)

Table 2 Global Industrial Automation Market Size, by Component, 2018–2027 (USD Million)

Table 3 Global Enterprise-level Controls Market Size, by Component, 2018–2027 (USD Million)

Table 4 Global Enterprise-level Controls Market Size, by Country/Region, 2018–2027 (USD Million)

Table 5 Global PLM Market Size, by Country/Region, 2018–2027 (USD Million)

Table 6 Global ERP Market Size, by Country/Region, 2018–2027 (USD Million)

Table 7 Global MES Market Size, by Country/Region, 2018–2027 (USD Million)

Table 8 Global Plant Instrumentation Market Size, by Component, 2018–2027 (USD Million)

Table 9 Global Plant Instrumentation Market Size, by Country/Region, 2018–2027 (USD Million)

Table 10 Global Motors & Drives Market Size, by Country/Region, 2018–2027 (USD Million)

Table 11 Global Robots Market Size, by Type, 2018 – 2027 (USD Million)

Table 12 Global Robots Market Size, by Country/Region, 2018–2027 (USD Million)

Table 13 Global Articulated Robots Market Size, by Country/Region, 2018–2027 (USD Million)

Table 14 Global SCARA Market Size, by Country/Region, 2018–2027 (USD Million)

Table 15 Global Collaborative Robots Market Size, by Country/Region, 2018–2027 (USD Million)

Table 16 Global Cartesian Robots Market Size, by Country/Region, 2018–2027 (USD Million)

Table 17 Global Other Robots Market Size, by Country/Region, 2018–2027 (USD Million)

Table 18 Global Sensors Market Size, by Country/Region, 2018–2027 (USD Million)

Table 19 Global Machine Vision Systems Market Size, by Component, 2018–2027 (USD Million)

Table 20 Global Machine Vision Systems Market Size, by Country/Region, 2018–2027 (USD Million)

Table 21 Global Cameras Market Size, by Country/Region, 2018–2027 (USD Million)

Table 22 Global Optics and LED Lighting Market Size, by Country/Region, 2018–2027

(USD Million)

Table 23 Global Relays & Switches Market Size, by Country/Region, 2018–2027 (USD Million)

Table 24 Global Other Plant Instrumentation Components Market Size, by Country/Region, 2018–2027 (USD Million)

Table 25 Global Plant-level Controls Market Size, by Component, 2018–2027 (USD Million)

Table 26 Global Plant-level Controls Market Size, by Country/Region, 2018–2027 (USD Million)

Table 27 Global SCADA Market Size, by Country/Region, 2018–2027 (USD Million)

Table 28 Global DCS Market Size, by Country/Region, 2018–2027 (USD Million)

Table 29 Global PLC Market Size, by Country/Region, 2018–2027 (USD Million)

Table 30 Global Other Plant-level Controls Market Size, by Country/Region, 2018–2027 (USD Million)

Table 31 Global Industrial Automation Market Size, by Mode of Automation, 2018–2027 (USD Million)

Table 32 Global Semi-automatic Systems Market Size, by Country/Region, 2018–2027 (USD Million)

Table 33 Global Fully-automatic Systems Market Size, by Country/Region, 2018–2027 (USD Million)

Table 34 Global Industrial Automation Market Size, by End User, 2018–2027 (USD Million)

Table 35 Global Industrial Automation Market Size for Oil & Gas, by Process, 2018–2027 (USD Million)

Table 36 Global Industrial Automation Market Size for Oil & Gas, by Country/Region, 2018–2027 (USD Million)

Table 37 Global Upstream Market Size, by Country/Region, 2018–2027 (USD Million)

Table 38 Global Downstream Market Size, by Country/Region, 2018–2027 (USD Million)

Table 39 Global Midstream Market Size, by Country/Region, 2018–2027 (USD Million)

Table 40 Global Industrial Automation Market Size for Automotive, by Country/Region, 2018–2027 (USD Million)

Table 41 Global Industrial Automation Market Size for Food & Beverage, by End User, 2018–2027 (USD Million)

Table 42 Global Industrial Automation Market Size for Food & Beverage, by Country/Region, 2018–2027 (USD Million)

Table 43 Global Industrial Automation Market Size for Dairy Processing, by Country/Region, 2018–2027 (USD Million)

Table 44 Global Industrial Automation Market Size for Beverages & Distilleries, by

Country/Region, 2018–2027 (USD Million)

Table 45 Global Industrial Automation Market Size for Bakery & Confectionary, by Country/Region, 2018–2027 (USD Million)

Table 46 Global Industrial Automation Market Size for Oils & Fats, by Country/Region, 2018–2027 (USD Million)

Table 47 Global Industrial Automation Market Size for Meat, Poultry, and Seafood Products, by Country/Region, 2018–2027 (USD Million)

Table 48 Global Industrial Automation Market Size for Fruits & Vegetables, by Country/Region, 2018–2027 (USD Million)

Table 49 Global Industrial Automation Market Size for Others, by Country/Region, 2018–2027 (USD Million)

Table 50 Global Industrial Automation Market Size for Semiconductors & Electronics, by Country/Region, 2018–2027 (USD Million)

Table 51 Global Industrial Automation Market Size for Chemicals & Materials, by Country/Region, 2018–2027 (USD Million)

Table 52 Global Industrial Automation Market Size for Consumer Goods, by Country/Region, 2018–2027 (USD Million)

Table 53 Global Industrial Automation Market Size for Mining & Metals, by Country/Region, 2018–2027 (USD Million)

Table 54 Global Industrial Automation Market Size for Power, by Country/Region, 2018–2027 (USD Million)

Table 55 Global Industrial Automation Market Size for Pharmaceuticals & Biotech, by Country/Region, 2018–2027 (USD Million)

Table 56 Global Industrial Automation Market Size for Machines & Tools, by Country/Region, 2018–2027 (USD Million)

Table 57 Global Industrial Automation Market Size for Paper & Pulp, by Country/Region, 2018–2027 (USD Million)

Table 58 Global Industrial Automation Market Size for Aerospace & Defense, by Country/Region, 2018–2027 (USD Million)

Table 59 Global Industrial Automation Market Size for Other End Users, by Country/Region, 2018–2027 (USD Million)

Table 60 Global Industrial Automation Market Size, by Country/Region, 2018-2027 (USD Million)

Table 61 Asia-Pacific: Industrial Automation Market Size, by Country/Region, 2018–2027 (USD Million)

Table 62 Asia-Pacific: Industrial Automation Market Size, by Component, 2018–2027 (USD Million)

Table 63 Asia-Pacific: Enterprise-level Controls Market Size, by Component, 2018–2027 (USD Million)

Table 64 Asia-Pacific: Plant Instrumentation Market Size, by Component, 2018–2027 (USD Million)

Table 65 Asia-Pacific: Robots Market Size, by Type, 2018–2027 (USD Million)

Table 66 Asia-Pacific: Machine Vision Systems Market Size, by Component, 2018–2027 (USD Million)

Table 67 Asia-Pacific: Plant-level Controls Market Size, by Component, 2018–2027 (USD Million)

Table 68 Asia-Pacific: Industrial Automation Market Size, by Mode of Automation, 2018–2027 (USD Million)

Table 69 Asia-Pacific: Industrial Automation Market Size, by End User, 2018–2027 (USD Million)

Table 70 Asia-Pacific: Industrial Automation Market Size for Oil & Gas, by Process, 2018–2027 (USD Million)

Table 71 Asia-Pacific: Industrial Automation Market Size for Food & Beverage, by End User, 2018–2027 (USD Million)

Table 72 China: Industrial Automation Market Size, by Component, 2018–2027 (USD Million)

Table 73 China: Enterprise-level Controls Market Size, by Component, 2018–2027 (USD Million)

Table 74 China: Plant Instrumentation Market Size, by Component, 2018–2027 (USD Million)

Table 75 China: Robots Market Size, by Type, 2018–2027 (USD Million)

Table 76 China: Machine Vision Systems Market Size, by Component, 2018–2027 (USD Million)

Table 77 China: Plant-level Controls Market Size, by Component, 2018–2027 (USD Million)

Table 78 China: Industrial Automation Market Size, by Mode of Automation, 2018–2027 (USD Million)

Table 79 China: Industrial Automation Market Size, by End User, 2018–2027 (USD Million)

Table 80 China: Industrial Automation Market Size for Oil & Gas, by Process, 2018–2027 (USD Million)

Table 81 China: Industrial Automation Market Size for Food & Beverage, by End User, 2018–2027 (USD Million)

Table 82 Japan: Industrial Automation Market Size, by Component, 2018–2027 (USD Million)

Table 83 Japan: Enterprise-level Controls Market Size, by Component, 2018–2027 (USD Million)

Table 84 Japan: Plant Instrumentation Market Size, by Component, 2018–2027 (USD Million)

Million)

Table 85 Japan: Robots Market Size, by Type, 2018–2027 (USD Million)

Table 86 Japan: Machine Vision Systems Market Size, by Component, 2018–2027 (USD Million)

Table 87 Japan: Plant-level Controls Market Size, by Component, 2018–2027 (USD Million)

Table 88 Japan: Industrial Automation Market Size, by Mode of Automation, 2018–2027(USD Million)

Table 89 Japan: Industrial Automation Market Size, by End User, 2018–2027 (USD Million)

Table 90 Japan: Industrial Automation Market Size for Oil & Gas, by Process, 2018–2027 (USD Million)

Table 91 Japan: Industrial Automation Market Size for Food & Beverage, by End User, 2018–2027 (USD Million)

Table 92 India: Industrial Automation Market Size, by Component, 2018–2027(USD Million)

Table 93 India: Enterprise-level Controls Market Size, by Component, 2018–2027 (USD Million)

Table 94 India: Plant Instrumentation Market Size, by Component, 2018–2027 (USD Million)

Table 95 India: Robots Market Size, by Type, 2018–2027 (USD Million)

Table 96 India: Machine Vision Systems Market Size, by Component, 2018–2027 (USD Million)

Table 97 India: Plant-level Controls Market Size, by Component, 2018–2027 (USD Million)

Table 98 India: Industrial Automation Market Size, by Mode of Automation, 2018–2027 (USD Million)

Table 99 India: Industrial Automation Market Size, by End User, 2018–2027 (USD Million)

Table 100 India: Industrial Automation Market Size for Oil & Gas, by Process, 2018–2027 (USD Million)

Table 101 India: Industrial Automation Market Size for Food & Beverage, by End User, 2018–2027 (USD Million)

Table 102 South Korea: Industrial Automation Market Size, by Component, 2018–2027 (USD Million)

Table 103 South Korea: Enterprise-level Controls Market Size, by Component, 2018–2027 (USD Million)

Table 104 South Korea: Plant Instrumentation Market Size, by Component, 2018–2027 (USD Million)

Table 105 South Korea: Robots Market Size, by Type, 2018–2027 (USD Million)

Table 106 South Korea: Machine Vision Systems Market Size, by Component, 2018–2027 (USD Million)

Table 107 South Korea: Plant-level Controls Market Size, by Component, 2018–2027 (USD Million)

Table 108 South Korea: Industrial Automation Market Size, by Mode of Automation, 2018–2027 (USD Million)

Table 109 South Korea: Industrial Automation Market Size, by End User, 2018–2027 (USD Million)

Table 110 South Korea: Industrial Automation Market Size for Oil & Gas, by Process, 2018–2027 (USD Million)

Table 111 South Korea: Industrial Automation Market Size for Food & Beverage, by End User, 2018–2027 (USD Million)

Table 112 Singapore: Industrial Automation Market Size, by Component, 2018–2027 (USD Million)

Table 113 Singapore: Enterprise-level Controls Market Size, by Component, 2018–2027 (USD Million)

Table 114 Singapore: Plant Instrumentation Market Size, by Component, 2018–2027 (USD Million)

Table 115 Singapore: Robots Market Size, by Type, 2018–2027 (USD Million)

Table 116 Singapore: Machine Vision Systems Market Size, by Component, 2018–2027 (USD Million)

Table 117 Singapore: Plant-level Controls Market Size, by Component, 2018–2027 (USD Million)

Table 118 Singapore: Industrial Automation Market Size, by Mode of Automation, 2018–2027 (USD Million)

Table 119 Singapore: Industrial Automation Market Size, by End User, 2018–2027 (USD Million)

Table 120 Singapore: Industrial Automation Market Size for Oil & Gas, by Process, 2018–2027 (USD Million)

Table 121 Singapore: Industrial Automation Market Size for Food & Beverage, by End User, 2018–2027 (USD Million)

Table 122 RoAPAC: Industrial Automation Market Size, by Component, 2018–2027 (USD Million)

Table 123 RoAPAC: Enterprise-level Controls Market Size, by Component, 2018–2027 (USD Million)

Table 124 RoAPAC: Plant Instrumentation Market Size, by Component, 2018–2027(USD Million)

Table 125 RoAPAC: Robots Market Size, by Type, 2018–2027 (USD Million)

- Table 126 RoAPAC: Machine Vision Systems Market Size, by Component, 2018–2027 (USD Million)
- Table 127 RoAPAC: Plant-level Controls Market Size, by Component, 2018–2027 (USD Million)
- Table 128 RoAPAC: Industrial Automation Market Size, by Mode of Automation, 2018–2027 (USD Million)
- Table 129 RoAPAC: Industrial Automation Market Size, by End User, 2018–2027 (USD Million)
- Table 130 RoAPAC: Industrial Automation Market Size for Oil & Gas, by Process, 2018–2027 (USD Million)
- Table 131 RoAPAC: Industrial Automation Market Size for Food & Beverage, by End User, 2018–2027 (USD Million)
- Table 132 Europe: Industrial Automation Market Size, by Country/Region, 2018–2027 (USD Million)
- Table 133 Europe: Industrial Automation Market Size, by Component, 2018–2027 (USD Million)
- Table 134 Europe: Enterprise-level Controls Market Size, by Component, 2018–2027 (USD Million)
- Table 135 Europe: Plant Instrumentation Market Size, by Component, 2018–2027 (USD Million)
- Table 136 Europe: Robots Market Size, by Type, 2018–2027 (USD Million)
- Table 137 Europe: Machine Vision Systems Market Size, by Component, 2018–2027 (USD Million)
- Table 138 Europe: Plant-level Controls Market Size, by Component, 2018–2027 (USD Million)
- Table 139 Europe: Industrial Automation Market Size, by Mode of Automation, 2018–2027 (USD Million)
- Table 140 Europe: Industrial Automation Market Size, by End User, 2018–2027 (USD Million)
- Table 141 Europe: Industrial Automation Market Size for Oil & Gas, by Process, 2018–2027 (USD Million)
- Table 142 Europe: Industrial Automation Market Size for Food & Beverage, by End User, 2018–2027 (USD Million)
- Table 143 Germany: Industrial Automation Market Size, by Component, 2018–2027 (USD Million)
- Table 144 Germany: Enterprise-level Controls Market Size, by Component, 2018–2027 (USD Million)
- Table 145 Germany: Plant Instrumentation Market Size, by Component, 2018–2027 (USD Million)

- Table 146 Germany: Robots Market Size, by Type, 2018–2027 (USD Million)
- Table 147 Germany: Machine Vision Systems Market Size, by Component, 2018–2027 (USD Million)
- Table 148 Germany: Plant-level Controls Market Size, by Component, 2018–2027 (USD Million)
- Table 149 Germany: Industrial Automation Market Size, by Mode of Automation, 2018–2027 (USD Million)
- Table 150 Germany: Industrial Automation Market Size, by End User, 2018–2027 (USD Million)
- Table 151 Germany: Industrial Automation Market Size for Oil & Gas, by Process, 2018–2027 (USD Million)
- Table 152 Germany: Industrial Automation Market Size for Food & Beverage, by End User, 2018–2027 (USD Million)
- Table 153 U.K.: Industrial Automation Market Size, by Component, 2018–2027 (USD Million)
- Table 154 U.K.: Enterprise-level Controls Market Size, by Component, 2018–2027 (USD Million)
- Table 155 U.K.: Plant Instrumentation Market Size, by Component, 2018–2027 (USD Million)
- Table 156 U.K.: Robots Market Size, by Type, 2018–2027 (USD Million)
- Table 157 U.K.: Machine Vision Systems Market Size, by Component, 2018–2027 (USD Million)
- Table 158 U.K.: Plant-level Controls Market Size, by Component (USD Million)
- Table 159 U.K.: Industrial Automation Market Size, by Mode of Automation, 2018–2027 (USD Million)
- Table 160 U.K.: Industrial Automation Market Size, by End User, 2018–2027 (USD Million)
- Table 161 U.K.: Industrial Automation Market Size for Oil & Gas, by Process, 2018–2027 (USD Million)
- Table 162 U.K.: Industrial Automation Market Size for Food & Beverage, by End User, 2018–2027 (USD Million)
- Table 163 Italy: Industrial Automation Market Size, by Component, 2018–2027 (USD Million)
- Table 164 Italy: Enterprise-level Controls Market Size, by Component, 2018–2027 (USD Million)
- Table 165 Italy: Plant Instrumentation Market Size, by Component, 2018–2027 (USD Million)
- Table 166 Italy: Robots Market Size, by Type, 2018–2027 (USD Million)
- Table 167 Italy: Machine Vision Systems Market Size, by Component, 2018–2027 (USD Million)

Million)

Table 168 Italy: Plant-level Controls Market Size, by Component, 2018–2027 (USD Million)

Table 169 Italy: Industrial Automation Market Size, by Mode of Automation, 2018–2027 (USD Million)

Table 170 Italy: Industrial Automation Market Size, by End User, 2018–2027 (USD Million)

Table 171 Italy: Industrial Automation Market Size for Oil & Gas, by Process, 2018–2027 (USD Million)

Table 172 Italy: Industrial Automation Market Size for Food & Beverage, by End User, 2018–2027 (USD Million)

Table 173 The Netherlands: Industrial Automation Market Size, by Component, 2018–2027 (USD Million)

Table 174 The Netherlands: Enterprise-level Controls Market Size, by Component, 2018–2027 (USD Million)

Table 175 The Netherlands: Plant instrumentation Market Size, by Component, 2018–2027 (USD Million)

Table 176 The Netherlands: Robots Market Size, by Type, 2018–2027 (USD Million)

Table 177 The Netherlands: Machine Vision Systems Market Size, by Component, 2018–2027 (USD Million)

Table 178 The Netherlands: Plant-level Controls Market Size, by Component, 2018–2027 (USD Million)

Table 179 The Netherlands: Industrial Automation Market Size, by Mode of Automation, 2018–2027 (USD Million)

Table 180 The Netherlands: Industrial Automation Market Size, by End User, 2018–2027 (USD Million)

Table 181 The Netherlands: Industrial Automation Market Size for Oil & Gas, by Process, 2018–2027 (USD Million)

Table 182 The Netherlands: Industrial Automation Market Size for Food & Beverage, by End User, 2018–2027 (USD Million)

Table 183 Sweden: Industrial Automation Market Size, by Component, 2018–2027 (USD Million)

Table 184 Sweden: Enterprise-level Controls Market Size, by Component, 2018–2027 (USD Million)

Table 185 Sweden: Plant Instrumentation Market Size, by Component, 2018–2027 (USD Million)

Table 186 Sweden: Robots Market Size, by Type, 2018–2027 (USD Million)

Table 187 Sweden: Machine Vision Systems Market Size, by Component, 2018–2027 (USD Million)

Table 188 Sweden: Plant-level Controls Market Size, by Component, 2018–2027 (USD Million)

Table 189 Sweden: Industrial Automation Market Size, by Mode of Automation, 2018–2027 (USD Million)

Table 190 Sweden: Industrial Automation Market Size, by End User, 2018–2027 (USD Million)

Table 191 Sweden: Industrial Automation Market Size for Oil & Gas, by Process, 2018–2027 (USD Million)

Table 192 Sweden: Industrial Automation Market Size for Food & Beverage, by End User, 2018–2027 (USD Million)

Table 193 France: Industrial Automation Market Size, by Component, 2018–2027 (USD Million)

Table 194 France: Enterprise-level Controls Market Size, by Component, 2018–2027 (USD Million)

Table 195 France: Plant Instrumentation Market Size, by Component, 2018–2027 (USD Million)

Table 196 France: Robots Market Size, by Type, 2018–2027 (USD Million)

Table 197 France: Machine Vision Systems Market Size, by Component, 2018–2027 (USD Million)

Table 198 France: Plant-level Controls Market Size, by Component, 2018–2027 (USD Million)

Table 199 France: Industrial Automation Market Size, by Mode of Automation, 2018–2027 (USD Million)

Table 200 France: Industrial Automation Market Size, by End User, 2018–2027 (USD Million)

Table 201 France: Industrial Automation Market Size for Oil & Gas, by Process, 2018–2027 (USD Million)

Table 202 France: Industrial Automation Market Size for Food & Beverage, by End User, 2018–2027 (USD Million)

Table 203 Spain: Industrial Automation Market Size, by Component, 2018–2027 (USD Million)

Table 204 Spain: Enterprise-level Controls Market Size, by Component, 2018–2027 (USD Million)

Table 205 Spain: Plant Instrumentation Market Size, by Component, 2018–2027 (USD Million)

Table 206 Spain: Robots Market Size, by Type, 2018–2027 (USD Million)

Table 207 Spain: Machine Vision Systems Market Size, by Component, 2018–2027 (USD Million)

Table 208 Spain: Plant-level Controls Market Size, by Component, 2018–2027 (USD Million)

Million)

Table 209 Spain: Industrial Automation Market Size, by Mode of Automation, 2018–2027 (USD Million)

Table 210 Spain: Industrial Automation Market Size, by End User, 2018–2027 (USD Million)

Table 211 Spain: Industrial Automation Market Size for Oil & Gas, by Process, 2018–2027 (USD Million)

Table 212 Spain: Industrial Automation Market Size for Food & Beverage, by End User, 2018–2027 (USD Million)

Table 213 RoE: Industrial Automation Market Size, by Component, 2018–2027 (USD Million)

Table 214 RoE: Enterprise-level Controls Market Size, by Component, 2018–2027 (USD Million)

Table 215 RoE: Plant Instrumentation Market Size, by Component, 2018–2027 (USD Million)

Table 216 RoE: Robots Market Size, by Type, 2018–2027 (USD Million)

Table 217 RoE: Machine Vision Systems Market Size, by Component, 2018–2027 (USD Million)

Table 218 RoE: Plant-level Controls Market Size, by Component, 2018–2027 (USD Million)

Table 219 RoE: Industrial Automation Market Size, by Mode of Automation, 2018–2027 (USD Million)

Table 220 RoE: Industrial Automation Market Size, by End User, 2018–2027 (USD Million)

Table 221 RoE: Industrial Automation Market Size for Oil & Gas, by Process, 2018–2027 (USD Million)

Table 222 RoE: Industrial Automation Market Size for Food & Beverage, by End User, 2018–2027 (USD Million)

Table 223 North America: Industrial Automation Market Size, by Country, 2018–2027 (USD Million)

Table 224 North America: Industrial Automation Market Size, by Component, 2018–2027 (USD Million)

Table 225 North America: Enterprise-level Controls Market Size, by Component, 2018–2027 (USD Million)

Table 226 North America: Plant Instrumentation Market Size, by Component, 2018–2027 (USD Million)

Table 227 North America: Robots Market Size, by Type, 2018–2027 (USD Million)

Table 228 North America: Machine Vision Systems Market Size, by Component, 2018–2027 (USD Million)

Table 229 North America: Plant-level Controls Market Size, by Component, 2018–2027 (USD Million)

Table 230 North America: Industrial Automation Market Size, by Mode of Automation, 2018–2027 (USD Million)

Table 231 North America: Industrial Automation Market Size, by End User, 2018–2027 (USD Million)

Table 232 North America: Industrial Automation Market Size for Oil & Gas, by Process, 2018–2027 (USD Million)

Table 233 North America: Industrial Automation Market Size for Food & Beverage, by End User, 2018–2027 (USD Million)

Table 234 U.S.: Industrial Automation Market Size, by Component, 2018–2027 (USD Million)

Table 235 U.S.: Enterprise-level Controls Market Size, by Component, 2018–2027 (USD Million)

Table 236 U.S.: Plant Instrumentation Market Size, by Component, 2018–2027 (USD Million)

Table 237 U.S.: Robots Market Size, by Type, 2018–2027 (USD Million)

Table 238 U.S.: Machine Vision Systems Market Size, by Component, 2018–2027 (USD Million)

Table 239 U.S.: Plant-level Controls Market Size, by Component, 2018–2027 (USD Million)

Table 240 U.S.: Industrial Automation Market Size, by Mode of Automation, 2018–2027 (USD Million)

Table 241 U.S.: Industrial Automation Market Size, by End User, 2018–2027 (USD Million)

Table 242 U.S.: Industrial Automation Market Size for Oil & Gas, by Process, 2018–2027 (USD Million)

Table 243 U.S.: Industrial Automation Market Size for Food & Beverage, by End User, 2018–2027 (USD Million)

Table 244 Canada: Industrial Automation Market Size, by Component, 2018–2027 (USD Million)

Table 245 Canada: Enterprise-level Controls Market Size, by Component, 2018–2027 (USD Million)

Table 246 Canada: Plant Instrumentation Market Size, by Component, 2018–2027 (USD Million)

Table 247 Canada: Robots Market Size, by Type, 2018–2027 (USD Million)

Table 248 Canada: Machine Vision Systems Market Size, by Component, 2018–2027 (USD Million)

Table 249 Canada: Plant-level Controls Market Size, by Component (USD Million)

Table 250 Canada: Industrial Automation Market Size, by Mode of Automation, 2018–2027 (USD Million)

Table 251 Canada: Industrial Automation Market Size, by End User, 2018–2027 (USD Million)

Table 252 Canada: Industrial Automation Market Size for Oil & Gas, by Process, 2018–2027 (USD Million)

Table 253 Canada: Industrial Automation Market Size for Food & Beverage, by End User, 2018–2027 (USD Million)

Table 254 Latin America: Industrial Automation Market Size, by Country/Region, 2018–2027 (USD Million)

Table 255 Latin America: Industrial Automation Market Size, by Component, 2018–2027 (USD Million)

Table 256 Latin America: Enterprise-level Controls Market Size, by Component, 2018–2027 (USD Million)

Table 257 Latin America: Plant Instrumentation Market Size, by Component, 2018–2027 (USD Million)

Table 258 Latin America: Robots Market Size, by Type, 2018–2027 (USD Million)

Table 259 Latin America: Machine Vision Systems Market Size, by Component, 2018–2027 (USD Million)

Table 260 Latin America: Plant-level Controls Market Size, by Component, 2018–2027 (USD Million)

Table 261 Latin America: Industrial Automation Market Size, by Mode of Automation, 2018–2027 (USD Million)

Table 262 Latin America: Industrial Automation Market Size, by End User, 2018–2027 (USD Million)

Table 263 Latin America: Industrial Automation Market Size for Oil & Gas, by Process, 2018–2027 (USD Million)

Table 264 Latin America: Industrial Automation Market Size for Food & Beverage, by End User, 2018–2027 (USD Million)

Table 265 Brazil: Industrial Automation Market Size, by Component, 2018–2027 (USD Million)

Table 266 Brazil: Enterprise-level Controls Market Size, by Component, 2018–2027 (USD Million)

Table 267 Brazil: Plant Instrumentation Market Size, by Component, 2018–2027 (USD Million)

Table 268 Brazil: Robots Market Size, by Type, 2018–2027 (USD Million)

Table 269 Brazil: Machine Vision Systems Market Size, by Component, 2018–2027 (USD Million)

Table 270 Brazil: Plant-level Controls Market Size, by Component, 2018–2027 (USD Million)

Million)

Table 271 Brazil: Industrial Automation Market Size, by Mode of Automation, 2018–2027 (USD Million)

Table 272 Brazil: Industrial Automation Market Size, by End User, 2018–2027 (USD Million)

Table 273 Brazil: Industrial Automation Market Size for Oil & Gas, by Process, 2018–2027 (USD Million)

Table 274 Brazil: Industrial Automation Market Size for Food & Beverage, by End User, 2018–2027 (USD Million)

Table 275 Mexico: Industrial Automation Market Size, by Component, 2018–2027 (USD Million)

Table 276 Mexico: Enterprise-level Controls Market Size, by Component, 2018–2027 (USD Million)

Table 277 Mexico: Plant Instrumentation Market Size, by Component, 2018–2027 (USD Million)

Table 278 Mexico: Robots Market Size, by Type, 2018–2027 (USD Million)

Table 279 Mexico: Machine Vision Systems Market Size, by Component, 2018–2027 (USD Million)

Table 280 Mexico: Plant-level Controls Market Size, by Component, 2018–2027 (USD Million)

Table 281 Mexico: Industrial Automation Market Size, by Mode of Automation, 2018–2027 (USD Million)

Table 282 Mexico: Industrial Automation Market Size, by End User, 2018–2027 (USD Million)

Table 283 Mexico: Industrial Automation Market Size for Oil & Gas, by Process, 2018–2027 (USD Million)

Table 284 Mexico: Industrial Automation Market Size for Food & Beverage, by End User, 2018–2027 (USD Million)

Table 285 RoLATAM: Industrial Automation Market Size, by Component, 2018–2027 (USD Million)

Table 286 RoLATAM: Enterprise-level Controls Market Size, by Component, 2018–2027 (USD Million)

Table 287 RoLATAM: Plant Instrumentation Market Size, by Component, 2018–2027 (USD Million)

Table 288 RoLATAM: Robots Market Size, by Type, 2018–2027 (USD Million)

Table 289 RoLATAM: Machine Vision Systems Market Size, by Component, 2018–2027 (USD Million)

Table 290 RoLATAM: Plant-level Controls Market Size, by Component, 2018–2027 (USD Million)

Table 291 RoLATAM: Industrial Automation Market Size, by Mode of Automation, 2018–2027 (USD Million)

Table 292 RoLATAM: Industrial Automation Market Size, by End User, 2018–2027 (USD Million)

Table 293 RoLATAM: Industrial Automation Market Size for Oil & Gas, by Process, 2018–2027 (USD Million)

Table 294 RoLATAM: Industrial Automation Market Size for Food & Beverage, by End User, 2018–2027 (USD Million)

Table 295 Middle East & Africa: Industrial Automation Market Size, by Country/Region, 2018–2027 (USD Million)

Table 296 Middle East & Africa: Industrial Automation Market Size, by Component, 2018–2027 (USD Million)

Table 297 Middle East & Africa: Enterprise-level Controls Market Size, by Component, 2018–2027 (USD Million)

Table 298 Middle East & Africa: Plant Instrumentation Market Size, by Component, 2018–2027 (USD Million)

Table 299 Middle East & Africa: Robots Market Size, by Type, 2018–2027 (USD Million)

Table 300 Middle East & Africa: Machine Vision Systems Market Size, by Component, 2018–2027 (USD Million)

Table 301 Middle East & Africa: Plant-level Controls Market Size, by Component, 2018–2027 (USD Million)

Table 302 Middle East & Africa: Industrial Automation Market Size, by Mode of Automation, 2018–2027 (USD Million)

Table 303 Middle East & Africa: Industrial Automation Market Size, by End User, 2018–2027 (USD Million)

Table 304 Middle East & Africa: Industrial Automation Market Size for Oil & Gas, by Process, 2018–2027 (USD Million)

Table 305 Middle East & Africa: Industrial Automation Market Size for Food & Beverage, by End User, 2018–2027 (USD Million)

Table 306 South Africa: Industrial Automation Market Size, by Component, 2018–2027 (USD Million)

Table 307 South Africa: Enterprise-level Controls Market Size, by Component, 2018–2027 (USD Million)

Table 308 South Africa: Plant Instrumentation Market Size, by Component, 2018–2027 (USD Million)

Table 309 South Africa: Robots Market Size, by Type, 2018–2027 (USD Million)

Table 310 South Africa: Machine Vision Systems Market Size, by Component, 2018–2027 (USD Million)

Table 311 South Africa: Plant-level Controls Market Size, by Component, 2018–2027

(USD Million)

Table 312 South Africa: Industrial Automation Market Size, by Mode of Automation, 2018–2027 (USD Million)

Table 313 South Africa: Industrial Automation Market Size, by End User, 2018–2027 (USD Million)

Table 314 South Africa: Industrial Automation Market Size for Oil & Gas, by Process, 2018–2027 (USD Million)

Table 315 South Africa: Industrial Automation Market Size for Food & Beverage, by End User, 2018–2027 (USD Million)

Table 316 UAE: Industrial Automation Market Size, by Component, 2018–2027 (USD Million)

Table 317 UAE: Enterprise-level Controls Market Size, by Component, 2018–2027 (USD Million)

Table 318 UAE: Plant Instrumentation Market Size, by Component, 2018–2027 (USD Million)

Table 319 UAE: Robots Market Size, by Type, 2018–2027 (USD Million)

Table 320 UAE: Machine Vision Systems Market Size, by Component, 2018–2027 (USD Million)

Table 321 UAE: Plant-level Controls Market Size, by Component, 2018–2027 (USD Million)

Table 322 UAE: Industrial Automation Market Size, by Mode of Automation, 2018–2027 (USD Million)

Table 323 UAE: Industrial Automation Market Size, by End User, 2018–2027 (USD Million)

Table 324 UAE: Industrial Automation Market Size for Oil & Gas, by Process, 2018–2027 (USD Million)

Table 325 UAE: Industrial Automation Market Size for Food & Beverage, by End User, 2018–2027 (USD Million)

Table 326 Saudi Arabia: Industrial Automation Market Size, by Component, 2018–2027 (USD Million)

Table 327 Saudi Arabia: Enterprise-level Controls Market Size, by Component, 2018–2027 (USD Million)

Table 328 Saudi Arabia: Plant Instrumentation Market Size, by Component, 2018–2027 (USD Million)

Table 329 Saudi Arabia: Robots Market Size, by Type, 2018–2027 (USD Million)

Table 330 Saudi Arabia: Machine Vision Systems Market Size, by Component, 2018–2027 (USD Million)

Table 331 Saudi Arabia: Plant-level Controls Market Size, by Component, 2018–2027 (USD Million)

Table 332 Saudi Arabia: Industrial Automation Market Size, by Mode of Automation, 2018–2027 (USD Million)

Table 333 Saudi Arabia: Industrial Automation Market Size, by End User, 2018–2027 (USD Million)

Table 334 Saudi Arabia: Industrial Automation Market Size for Oil & Gas, by Process, 2018–2027 (USD Million)

Table 335 Saudi Arabia: Industrial Automation Market Size for Food & Beverage, by End User, 2018–2027 (USD Million)

Table 336 RoMEA: Industrial Automation Market Size, by Component, 2018–2027 (USD Million)

Table 337 RoMEA: Enterprise-level Controls Market Size, by Component, 2018–2027 (USD Million)

Table 338 RoMEA: Plant Instrumentation Market Size, by Component, 2018–2027 (USD Million)

Table 339 RoMEA: Robots Market Size, by Type, 2018–2027 (USD Million)

Table 340 RoMEA: Machine Vision Systems Market Size, by Component, 2018–2027 (USD Million)

Table 341 RoMEA: Plant-level Controls Market Size, by Component, 2018–2027 (USD Million)

Table 342 RoMEA: Industrial Automation Market Size, by Mode of Automation, 2018–2027 (USD Million)

Table 343 RoMEA: Industrial Automation Market Size, by End User, 2018–2027 (USD Million)

Table 344 RoMEA: Industrial Automation Market Size for Oil & Gas, by Process, 2018–2027 (USD Million)

Table 345 RoMEA: Industrial Automation Market Size for Food & Beverage, by End User, 2018–2027 (USD Million)

Table 346 Recent Key Developments, by Company, 2018–2020

List Of Figures

LIST OF FIGURES

- Figure 1 Market Ecosystem
- Figure 2 Currency and Limitations
- Figure 3 Key Stakeholders
- Figure 4 Research Process
- Figure 5 Key Secondary Sources
- Figure 6 Key Executives Interviewed
- Figure 7 Primary Research Techniques
- Figure 8 Market Size Estimation
- Figure 9 Key Insights
- Figure 10 Global Industrial Automation Market, by Component, 2020 Vs 2027
- Figure 11 Global Industrial Automation Market, by Mode of Automation, 2020 Vs 2027
- Figure 12 Global Industrial Automation Market, by End User, 2020
- Figure 13 Geographic Snapshot: Global Industrial Automation Market
- Figure 14 Market Dynamics
- Figure 15 Robot Density in the Manufacturing Industry 2019
- Figure 16 Top Robot Companies in the World-Robot Install Base Worldwide
- Figure 17 New Installation of Industrial Robots Worldwide in 2019, by Industry (in 1,000 Units)
- Figure 18 Estimated Hourly Labour Costs in Europe, 2019
- Figure 19 Value Chain Analysis: Industrial Automation Market
- Figure 20 The Impact of COVID-19 on the Global Industrial Automation Market
- Figure 21 Global: Industrial Automation Market, by Component, 2018–2027
- Figure 22 Global Industrial Automation Market, by Mode of Automation, 2018–2027
- Figure 23 Global Industrial Automation Market, by End User, 2018–2027
- Figure 24 Global Industrial Automation Market, by Geography, 2020–2027 (USD Million)
- Figure 25 Wage Growth by Asia-Pacific Sub-region, 2014-2017
- Figure 26 Key Growth Strategies Adopted by Leading Players, 2018–2020
- Figure 27 Market Share Analysis, by Leading Players, 2019
- Figure 28 Siemens AG: Financial Overview, 2020
- Figure 29 Emerson Electric Co: Financial Overview, 2020
- Figure 30 Mitsubishi Electric Corporation: Financial Overview, 2019
- Figure 31 ABB Group: Financial Overview, 2020
- Figure 32 Schneider Electric SE: Financial Overview, 2019
- Figure 33 Rockwell Automation, Inc.: Financial Overview, 2020

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