

Global Industrial Control and Factory Automation Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028F - By Component (Sensors, Control Valves, Switches & Relays, Industrial Robots, Others), By Industrial Control Systems (Distributed Control System (DCS), Programmable Logic Controller (PLC), Supervisory Control and Data Acquisition (SCADA), Product Lifecycle Management (PLM), Human Machine Interface (HMI), Others), By Application (Automotive, Aerospace & Defense, Food & Beverage, Chemical, Energy & Utilities, Healthcare, Oil & Gas, Transportation, E-Commerce, Others), By Region and Competition

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Abstracts

Global industrial control and factory automation market is predicted to proliferate during the forecast period due to the rapid growth in of the E-Commerce Industry. Industrial control and factory automation is the incorporation of automating inventory movement, machinery, and process from end-to-end manufacturing processes with the least amount of human intervention and controlled by autonomous systems. During an automation project, a company can get rid of labor-intensive tasks during manufacturing that need repeated physical labor, manual data input, and analysis. In addition, to avoid manual operations and expedite order selection procedures, warehouses deploy highly

automated technology for more complicated products handling flows, comprising conveyors, automatic sorters, AGVs (Automated Guided Vehicles), a robotic picking system, and automatic palletizers. The companies are progressively using this technology to reduce handling and storage costs, human error, enhanced data accuracy and analysis, reduced stockout events, improved customer service, and order fulfillment accuracy. Numerous innovations carried out in empowering the factory with automation technology such as cobotics, warehouse drones, and wireless fleet management and supply chain as a service are helping service providers to offer an effective solution to the enterprises that are enhancing the features of industrial control and factory automation.

Increasing Growth of the E-Commerce Industry

The growth and popularity of ecommerce has sparked the demand for industrial control and factory automation. The spark has ignited the e-commerce service providers and operators for adopting various technologies such as automation and robotics in the warehouses, factories, and transportation. Automated Storage and Retrieval Systems (AS/RS), Automatic Guided Vehicles (AGVs), Autonomous Mobile Robots (AMRs), Goods-to-Person (GTP) systems and many more have been accepted as a necessary automation solution by several global enterprises. The market is expanding globally because of the numerous firms employing this industrial control and factory automation technique such as supervisory control and data acquisition (SCADA) and product lifecycle management (PLM) to make the entire process more efficient and cost effective. For instance, according to comscore, the digital e-commerce market in 2022 hit around USD 1.09 trillion in the US. This industrial control systems can be helpful for improving the accuracy of inventory by tracking turnover rates and prevent defective or lost items with distributed control system (DCS). Thus, the increasing growth of the E-Commerce industry is propelling the growth of the global industrial control and factory automation market.

Government Initiatives to Promote Industrial Automation

The government of various countries are expressing the intention to support business and science to ensure healthy economic development. The structural development of the manufacturing sector depends upon the adoption of advanced communication and Industrial automation technologies. For instance, to harness the growing demand from consumers and requirement of enhancing the capabilities of industrialization, the Indian government has launched Make in India initiative, production linked incentive (PLI) scheme to encourage domestic production. Moreover, the country has recently unveiled

a national logistics policy (NLP) in an attempt to establish a multi-jurisdictional framework for growing the logistics industry. Moreover, to foster smart manufacturing facilities, the Government of Korea has laid out several initiatives to roadmap several areas of R&D projects, establishment of Smart Factory Standard Research Council, and promote the conglomeration for accelerating the manufacturing automation solutions to bolster productivity and profitability and reduce costs across the supply chain. Furthermore, several initiatives in different countries such as Singapore's Integrated Robotics and Automation Solutions Initiative, the US national strategy for advanced manufacturing and many more are exhibited to further stimulate the global industrial control and factory automation market during the forecast period.

Growing Use of Robotics in Warehousing is Stimulating the Market Growth

The growing use of robotics for automation in warehousing is slowly becoming a trend with newer, groundbreaking technology. Robots are offering significant value to warehouse operations. As they can help to mitigate the risk associated with errors, reduce overhead, speed up order fulfillment and facilitate better inventory management, businesses are rapidly adopting robotics as an alternative for automating their warehouses. For instance, according to the association for advancing automation (A3), robot sales hit a new record in North America with 12,305 robots sold in Q2 2022, a 25% increase in unit orders over the same period in 2021. With resurgence in sales to automotive companies and an ongoing need to manage increasing demand to automate logistics for e-commerce, enterprises are rapidly enabling robotics as an effective technology to automate the workflow without any hindrance. Additionally, large enterprises are investing heavily on automation to keep the pace with the developing economy such as Amazon and Walmart investment of USD 1 billion and USD 14 billion in industrial control and factory automation solutions, including robots and AI. Furthermore, technical advances in robotics for small and medium scale enterprises such as autonomous mobile robots (AMRs) are enabling the enterprises in the operation process with sort, grab, and pick items from the warehouse floor. Therefore, the growing use of robotics in warehouses is expected to further stimulate the global industrial control and factory automation market during the forecast period.

Growing use of Internet of Things (IoT) in Industrial Automation

The unprecedented growth of IoT, AI, and industrial automation technology with IoT-based predictive maintenance and IoT-based asset monitoring solutions and varied technology connectivity is proving to be a game changer for automation companies and has enabled potential opportunities. The growing use has altered the workload flexible and

available, streamlined industrial systems, and improved data automation, with the aim of removing errors and inefficiencies with cost reduction capability in various manufacturing industries. Data captured by IoT devices connecting different assets and systems enable businesses to predict, plan, and take proactive steps for any events such as parts repair or equipment failure before it occurs. The implementation of IoT in the automation of industries is gaining transition with the advantages of better customer experience (CX), increasing operational efficiency, opening new path for business opportunities, and reduce operational costs. Moreover, IoT-based predictive maintenance makes use of IoT technologies to analyze a production system in real time and anticipate potential causes of malfunction in its parts.

The increasing number of smart devices and sensors proliferated with IoT-powered asset monitoring solutions has become a natural step of technological evolution. In the IoT space, container tracking, trailer monitoring, vehicle monitoring, real-time location tracking, and supply chain management have become easy to access through combining IoT solutions with predictive management applications. In addition, since IoT-based devices are aiding in automating monitor development cycles and manage warehouse and stockpiles using radio frequency identification (RFID) inventory tracking, the manufacturing plants have intended their interest in adopting industrial control and factory automation solution. For instance, based on the state of IoT-Spring 2022 report, the number of connected IoT devices grew by 18% from 12.2 billion to 14.4 billion globally. Thus, the growing use of IoT in industrial automation is attributed to the growth of the global industrial control and factory automation market during the forecast period.

Market Segmentation

The global industrial control and factory automation market is segmented into component, industrial control systems, and application. Based on component, the market is segmented into sensors, control valves, switches & relays, industrial robots, and others. Based on industrial control systems, the market is segmented into distributed control system (DCS), programmable logic controller (PLC), supervisory control and data acquisition (SCADA), product lifecycle management (PLM), human machine interface (HMI), and others. Based on application, the market is segmented into automotive, aerospace & defense, food & beverage, chemical, energy & utilities, healthcare, oil & gas, transportation, E-Commerce, and others.

Company Profiles

Schneider Electric SE, Rockwell Automation Inc., Honeywell International Inc., ABB

Limited, Siemens AG, Robert Bosch GmbH, Emerson Electric Company, Yokogawa Electric Corporation, Omron Corporation, and Mitsubishi Electric Corporation are among the major players that are driving the growth of the global industrial control and factory automation market.

Report Scope:

In this report, the global industrial control and factory automation market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Industrial Control and Factory Automation Market, By Component:

Sensors

Control Values

Switches and Relays

Industrial Robots

Others

Industrial Control and Factory Automation Market, By Industrial Control Systems:

Distributed Control System (DCS)

Programmable Logic Controller (PLC)

Supervisory Control and Data Acquisition (SCADA)

Product Lifecycle Management (PLM)

Human Machine Interface (HMI)

Others

Industrial Control and Factory Automation Market, By Application:

Automotive

Aerospace & Defense

Food & Beverage

Chemical

Energy & Utilities

Healthcare

Oil & Gas

Transportation

E-Commerce

Others

Industrial Control and Factory Automation Market, By Region:

Asia-Pacific

China

Japan

India

Australia

South Korea

North America

United States

Canada

Mexico

Europe

United Kingdom

Germany

France

Spain

Italy

Middle East & Africa

Israel

Turkey

Saudi Arabia

UAE

South America

Brazil

Argentina

Colombia

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the global industrial control and factory automation market.

Available Customizations:

With the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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