

# **Industrial Automation Components Market Forecasts to 2032 – Global Analysis By Component (Sensors, Industrial Robots & Actuators, Controllers, Drives & Motors, Networking & Communication Components and Switchgear & Control Devices), End User and By Geography**

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## **Abstracts**

According to Statistics MRC, the Global Industrial Automation Components Market is accounted for \$260.2 billion in 2025 and is expected to reach \$550.9 billion by 2032 growing at a CAGR of 11.31% during the forecast period. Industrial Automation Components are the essential hardware and software elements that enable automated control and operation of industrial processes, machinery, and systems. These components include sensors, actuators, programmable logic controllers (PLCs), human-machine interfaces (HMIs), drives, and control software, all working together to monitor, control, and optimize production with minimal human intervention. They enhance efficiency, precision, safety, and consistency across manufacturing and process industries. By integrating real-time data acquisition, intelligent control, and seamless communication, industrial automation components drive operational excellence, reduce costs, and support smart manufacturing and Industry 4.0 initiatives.

Market Dynamics:

Driver:

Technological advancements in automation

Automation components are enabling real-time monitoring, predictive maintenance, and

adaptive control, improving productivity and reducing downtime. Integration with smart factories, IIoT platforms, and digital twins is expanding application scope. Public and private investments in Industry 4.0 infrastructure are reinforcing demand. OEMs and system integrators are embedding advanced automation across manufacturing, logistics, and energy domains. These dynamics are positioning automation innovation as a key driver of the industrial automation components market, thereby boosting overall market growth.

#### Restraint:

##### Integration challenges with legacy systems

Compatibility issues, data silos, and lack of interoperability are slowing deployment and increasing implementation costs. Retrofitting legacy infrastructure requires specialized engineering and extended downtime. Limited standardization and fragmented vendor ecosystems are compounding complexity. These factors are constraining market expansion despite strong demand for modernization.

#### Opportunity:

##### Focus on energy efficiency and sustainability

Components such as smart drives, energy-efficient actuators, and intelligent controllers are enabling precise load management and process optimization. Government mandates and corporate ESG goals are accelerating adoption across sectors. Integration with renewable energy systems, green buildings, and circular manufacturing is expanding reach. These developments are creating favorable conditions for market growth, thereby accelerating adoption of automation components.

#### Threat:

##### Shortage of skilled workforce

Skill gaps in programming, integration, and diagnostics are affecting deployment timelines and system reliability. Educational institutions and training programs are struggling to keep pace with evolving technologies. Manufacturers must invest in workforce development, certification, and knowledge transfer to mitigate operational risks. These limitations are introducing strategic barriers and constraining full-scale market development.

### Covid-19 Impact:

The Covid-19 pandemic disrupted the Industrial Automation Components market, causing temporary supply chain interruptions, project delays, and reduced capital expenditure. Manufacturing plants, logistics hubs, and energy facilities experienced operational constraints and labor shortages. However, the increased focus on remote monitoring, contactless operations, and resilient infrastructure partially offset the slowdown. Post-pandemic recovery is driven by growing demand for scalable, intelligent, and energy-efficient automation solutions, along with innovations in modular design, cloud integration, and predictive analytics across global markets.

The industrial robots & actuators segment is expected to be the largest during the forecast period

The industrial robots & actuators segment is expected to account for the largest market share during the forecast period owing to its widespread use in assembly, material handling, welding, and packaging applications. These components offer precision, repeatability, and scalability across discrete and process industries. Manufacturers are optimizing designs for collaborative, autonomous, and high-speed operations. Demand remains strong across automotive, electronics, and metal fabrication sectors. This segment continues to anchor the industrial automation components market, thereby boosting overall market growth.

The electronics & semiconductors segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the electronics & semiconductors segment is predicted to witness the highest growth rate driven by demand for ultra-precise, high-throughput, and contamination-free automation solutions. Cleanroom-compatible robots, vision systems, and motion controllers are being deployed in wafer fabrication, PCB assembly, and chip packaging. Integration with AI, edge computing, and real-time analytics is enhancing process control and yield optimization. Public and private investments in semiconductor manufacturing and electronics innovation are accelerating adoption. Demand for miniaturization, quality assurance, and operational agility is reinforcing momentum.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share due to its robust manufacturing base, rapid industrialization, and government support for automation. Countries like China, Japan, South Korea, and India are leading in electronics, automotive, and heavy machinery production. Public initiatives in smart factories, digital infrastructure, and workforce upskilling are reinforcing demand. Regional manufacturers and global players are scaling deployment across industrial corridors and export zones. Competitive pricing and policy alignment are supporting widespread adoption.

#### Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR driven by rising investment in advanced manufacturing, reshoring strategies, and innovation in automation technologies. The U.S. and Canada are expanding use of robotics, sensors, and control systems across aerospace, pharmaceuticals, and energy sectors. Public-private partnerships and sustainability mandates are accelerating market penetration. Demand for operational resilience, digital transformation, and workforce augmentation is reinforcing growth. Regional startups and research institutions are leading in product development and system integration.

#### Key players in the market

Some of the key players in Industrial Automation Components Market include Siemens AG, Schneider Electric SE, ABB Ltd., Rockwell Automation, Inc., Mitsubishi Electric Corporation, Honeywell International Inc., Emerson Electric Co., Bosch Rexroth AG, Yokogawa Electric Corporation, Omron Corporation, Eaton Corporation plc, FANUC Corporation, Keyence Corporation, Parker Hannifin Corporation and Danfoss A/S.

#### Key Developments:

In September 2025, Siemens partnered with Snowflake, the AI Data Cloud firm, to enable IT/OT convergence for industrial customers. This collaboration enhances real-time analytics and operational efficiency across Siemens' automation platforms, supporting scalable, AI-driven manufacturing.

In March 2025, Schneider Electric launched enhancements to EcoStruxure Automation Expert, featuring AI-infused decision-making and adaptive control. These upgrades improve engineering efficiency and operational agility, enabling manufacturers to respond faster to market shifts and regulatory demands.

## Components Covered:

Sensors

Industrial Robots & Actuators

Controllers

Drives & Motors

Networking & Communication Components

Switchgear & Control Devices

## End Users Covered:

Automotive

Food & Beverages

Pharmaceuticals

Chemical & Petrochemical

Oil & Gas

Power & Energy

Metals & Mining

Electronics & Semiconductors

Other End Users

## Regions Covered:

## North America

US

Canada

Mexico

## Europe

Germany

UK

Italy

France

Spain

Rest of Europe

## Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

## South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

### Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

### Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

### Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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