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Industrial Control For Process Automation Market Outlook 2025-2034: Market Share, and Growth Analysis By System (Supervisory Control And Data Acquisition System, Distributed Control System, Programmable Logic Controller, Machine Execution System, Product Lifecycle Management, Enterprise Resource Planning, Human Machine Interface, Other Systems), By Mode of Automation (Semi-Automation, Fully-Automation), By Applications

https://marketpublishers.com/r/I4A727AAE4D8EN.html
Date: October 2025
Pages: 160
Price: US$ 3,950.00 (Single User License)
ID: I4A727AAE4D8EN

Abstracts

The Industrial Control For Process Automation Market is valued at USD 34.6 billion in 2025 and is projected to grow at a CAGR of 10.6% to reach USD 85.6 billion by 2034.The industrial control for process automation market encompasses control systems and devices that monitor and automate industrial operations for improved efficiency, safety, and precision. This includes distributed control systems (DCS), programmable logic controllers (PLC), supervisory control and data acquisition (SCADA), and human-machine interfaces (HMI). These systems form the digital nervous system of industrial plants, allowing real-time control and decision-making. With the shift toward Industry 4.0, there’s a rising demand for integrated, data-driven, and interoperable control solutions across process industries like chemicals, oil and gas, power generation, and pharmaceuticals. Automation improves consistency, reduces labor dependency, and optimizes resource utilization. process automation control systems gained traction due to increased adoption in digital transformation initiatives. Manufacturers prioritized system upgrades to support real-time data analytics, energy efficiency, and remote monitoring. AI-enhanced controllers and cloud-based SCADA solutions became widely adopted in industries seeking scalability and operational

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intelligence. Regulatory compliance and cybersecurity concerns led to more secure control architectures. Open-source and modular control platforms gained attention for their flexibility and lower costs. Additionally, brownfield projects focused on modernizing legacy systems while minimizing disruption, fueling demand for adaptable automation retrofits in aging plants worldwide. The market is expected to embrace autonomous process control systems powered by AI and machine learning. Edge computing and decentralized control will offer faster, localized decision-making in time-critical environments. Vendors will integrate predictive maintenance and self-healing capabilities into controllers to boost uptime and asset longevity. Seamless integration of IT and OT systems will redefine plant operations, with interoperable platforms facilitating enterprise-wide visibility and control. As industries aim for zero-defect manufacturing and decarbonization, intelligent process automation will become the backbone of resilient and adaptive industrial ecosystems globally.

Key Insights Industrial Control For Process Automation Market

AI-driven process control systems are enabling self-adjusting operations and reducing human intervention in continuous manufacturing.

Cloud-based SCADA and HMI platforms are gaining popularity for centralized control and scalability across distributed facilities.

Edge computing is improving latency and decision-making in remote and time-sensitive industrial environments.

Cybersecurity-hardened control systems are being developed to counter increasing threats in digitally connected infrastructures.

Open and modular automation architectures are allowing easier system integration and customization in diverse applications.

Rising demand for operational efficiency and cost optimization is driving automation in process-heavy industries.

Regulatory requirements and safety mandates are encouraging adoption of standardized, secure control systems.

Industrial digitalization and real-time analytics are increasing reliance on smart control solutions for process visibility.

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Growth in energy and chemical sectors is expanding the need for robust, scalable, and resilient control architectures.

High initial investment and complexity of integrating new systems with legacy infrastructure pose major adoption barriers.

Lack of skilled personnel for managing advanced control systems hinders smooth implementation in smaller industrial setups.

Industrial Control For Process Automation Market Segmentation

By System

- Supervisory Control And Data Acquisition System
- Distributed Control System
- Programmable Logic Controller
- Machine Execution System
- Product Lifecycle Management
- Enterprise Resource Planning
- Human Machine Interface
- Other Systems

By Mode of Automation

- Semi-Automation
- Fully-Automation

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By Applications

- Chemical And Petrochemical
- Metals And Mining
- Pulp And Paper
- Water And Wastewater
- Food And Beverage
- Power
- Oil And Gas
- Other Applications

Key Companies Analysed

- Siemens AG
- General Electric Company
- Honeywell International Inc.
- Mitsubishi Electric Corporation
- Schneider Electric SE
- ABB Ltd.
- Danaher Corporation
- Johnson Controls International plc
- Emerson Electric Co.

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Rockwell Automation Inc.

Fuji Electric Co. Ltd.

Danfoss A/S

Keyence Corporation

Bosch Rexroth AG

Omron Corporation

Fanuc Corporation

Dassault Systemes SE

Endress+Hauser Group

Phoenix Contact GmbH & Co. KG

Rittal GmbH & Co. KG

B&R Industrial Automation GmbH

Pilz GmbH & Co. KG

Aspen Technology Inc.

Wago Kontakttechnik GmbH & Co. KG

Yokogawa Electric Corporation.

Industrial Control For Process Automation Market Analytics

The report employs rigorous tools, including Porter’s Five Forces, value chain mapping, and scenario-based modeling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of

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international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behavior are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

Industrial Control For Process Automation Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

Countries Covered

North America — Industrial Control For Process Automation market data and outlook to 2034

United States

Canada

Mexico

Europe — Industrial Control For Process Automation market data and outlook to 2034

Germany

United Kingdom

France

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Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Industrial Control For Process Automation market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Industrial Control For Process Automation market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

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Egypt

South and Central America — Industrial Control For Process Automation market data and outlook to 2034

Brazil

Argentina

Chile

Peru

* *We can include data and analysis of additional countries on demand.*

Research Methodology

This study combines primary inputs from industry experts across the Industrial Control For Process Automation value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

Key Questions Addressed

What is the current and forecast market size of the Industrial Control For Process Automation industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of

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global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

Your Key Takeaways from the Industrial Control For Process Automation Market Report

Global Industrial Control For Process Automation market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Industrial Control For Process Automation trade, costs, and supply chains

Industrial Control For Process Automation market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Industrial Control For Process Automation market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Industrial Control For Process Automation market trends, drivers, restraints, and opportunities

Porter’s Five Forces analysis, technological developments, and Industrial Control For Process Automation supply chain analysis

Industrial Control For Process Automation trade analysis, Industrial Control For Process Automation market price analysis, and Industrial Control For Process Automation supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Industrial Control For Process Automation market news and developments

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An updated PDF report and an MS Excel data workbook containing all market tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

Complimentary report update to incorporate the latest available data and the impact of recent market developments.

** The updated report will be delivered within 3 working days*

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Contents

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5. GLOBAL INDUSTRIAL CONTROL FOR PROCESS AUTOMATION MARKET STATISTICS – INDUSTRY REVENUE, MARKET SHARE, GROWTH TRENDS AND FORECAST BY SEGMENTS, TO 2034

6. ASIA PACIFIC INDUSTRIAL CONTROL FOR PROCESS AUTOMATION INDUSTRY STATISTICS – MARKET SIZE, SHARE, COMPETITION AND OUTLOOK

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