

Report Information

More information from: <https://www.marketresearchfuture.com/reports/industrial-control-systems-market-1214>

Industrial Control Systems (ICS) Market Research Report- Forecast 2030

Report / Search Code: MRFR/SEM/0707-HCR

Publish Date: January, 2024

[Request Sample](#)

Price	1-user PDF : \$ 4950.0	Site PDF : \$ 5950.0	Enterprise PDF : \$ 7250.0
-------	------------------------	----------------------	----------------------------

Description:

Global Industrial Control Systems Market Overview

Industrial Control Systems Market Size was valued at USD 101 Billion in 2021. The Industrial Control Systems market industry is projected to grow from USD 172 Billion in 2022 to USD 246 Billion by 2030, exhibiting a compound annual growth rate (CAGR) of 8.6% during the forecast period (2022 - 2030). The rising cost of labor, coupled with the immense pressure on the manufacturers to meet deadlines, has resulted in the increased adoption of automation in factories the key market drivers enhancing market growth.

Industrial Control Systems Market Overview

Source: Secondary Research, Primary Research, MRFR Database and Analyst Review

Industrial Control Systems Market Trends

- Increasing need for industrial software and process automation to boost the market growth

The demand for industrial software and process automation solutions has been increasing in recent years due to the need for greater efficiency, reliability, and safety in industrial processes. This has resulted in a growth in the market for Industrial Control Systems (ICS), which are systems used to control and monitor industrial processes. The use of ICS in various industries such as oil and gas, manufacturing, and power generation has been growing, which is driving the growth of the market.

Many governments have established federal policies and laws intending to develop cybersecurity standards and thus, help ICS with mandatory infrastructure. Many regulations and associations like the National Strategy and Action Plan issued by Public Safety Canada and European Commission's EPCIP, NERC, and CIWIN, have been set to enforce the reliability standards and ensure national security as a step to safeguard the country's critical infrastructure. The US has US DHS and DIACAP which ensure the enhancement of security and also help in the resilience of the physical and cyberinfrastructures belonging to a nation. Therefore, such factors related to Industrial Control Systems have enhanced the Industrial Control Systems market CAGR across the globe in recent years.

Industrial Control Systems Market Segment Insights

Industrial Control Systems Control System Insights

The Industrial Control Systems market segmentation, based on control systems, includes SCADA, DCS, and Hybrid. The SCADA segment held the majority share in 2021 of the Industrial Control Systems market revenue. The SCADA segment held the largest market share, due to its widespread use in various industrial applications such as monitoring and control of remote assets, real-time data collection and analysis, and process optimization. However, the DCS and Hybrid systems segments are expected to grow in the coming years as more industries adopt these systems for their advanced features and greater operational efficiency.

Industrial Control Systems Application Insights

The Industrial Control Systems market segmentation, based on application, includes Electrical Power, Oil and Gas, Water and Water-waste treatment, and Automobile. The oil and gas segment held the majority share in 2021, due to the increasing demand for automation and control solutions in the exploration, production, and transportation of oil and gas. The Electrical Power segment is also growing due to the need for better monitoring and control of the power generation and distribution process. The Water and Wastewater treatment segment is also expected to grow as more focus is

given to environmental sustainability and the need for efficient water management. The Automotive segment is also expected to grow as the industry shifts towards electrification and autonomous vehicles.

Industrial Control Systems Component Insights

Based on components, the Industrial Control Systems market segmentation includes HMI, PLC, RTU, and SCADA Communication Systems. The SCADA communication system segment dominated the market in 2021 as communication is a critical aspect of industrial control systems and the increasing demand for real-time data collection and analysis has boosted the demand for SCADA communication systems. The HMI segment is also growing as more industries adopt user-friendly interfaces for better process monitoring and control. The PLC and RTU segments are also expected to grow as these components play a crucial role in automating industrial processes. These all factors for Industrial Control Systems positively impact market growth.

Figure 2: Industrial Control Systems Market, by Control Systems, 2021 & 2030 (USD Billion)

Industrial Control Systems Market, by Control Systems, 2021 & 2030

Source: Secondary Research, Primary Research, MRFR Database and Analyst Review

Industrial Control Systems Regional Insights

By region, the study provides market insights into North America, Europe, Asia-Pacific, and the Rest of the World. The Asia-Pacific region is the second-largest market for Industrial Control Systems ly and holds a significant market share. The region is witnessing rapid growth due to increasing industrialization and urbanization, particularly in countries like China, India, and Japan. The growing demand for energy and the need for efficient and safe industrial processes are driving the growth of the ICS market in the Asia-Pacific region. The region has a large number of oil and gas companies, power generation companies, and manufacturing industries, which are adopting advanced technologies for process automation and control. The growing investments in infrastructure development and the increasing demand for sustainable energy solutions are also driving the growth of the ICS market in the Asia-Pacific region.

Further, the major countries studied in the market report are The U.S., Canada, Germany, France, the UK, Italy, Spain, China, Japan, India, Australia, South Korea, and Brazil

Figure 3: INDUSTRIAL CONTROL SYSTEMS MARKET SHARE BY REGION 2021 (%)

INDUSTRIAL CONTROL SYSTEMS MARKET SHARE BY REGION 2021

Source: Secondary Research, Primary Research, MRFR Database and Analyst Review

Europe is the third-largest market for Industrial Control Systems ly and holds a significant market share. The region is witnessing growth due to the increasing demand for energy-efficient and safe industrial processes, as well as the growing focus on environmental sustainability. The presence of a large number of oil and gas companies, power generation companies, and manufacturing industries in the region is driving the growth of the ICS market in Europe. The increasing investments in infrastructure development and the adoption of advanced technologies for process automation and control are also contributing to the growth of the ICS market in Europe. The EU's emphasis on reducing carbon emissions and promoting renewable energy solutions is also expected to boost the growth of the ICS market in the region in the coming years. Further, the German Industrial Control Systems market held the largest market share, and the UK Industrial Control Systems market was the fastest-growing market in the European region.

North America is one of the largest markets for Industrial Control Systems and holds a significant market share ly. This is due to the presence of a large number of industrial companies, coupled with the early adoption of advanced technologies in the region. The US is a major contributor to the growth of the ICS market in North America due to the presence of a large number of oil and gas companies, power generation companies, and manufacturing industries. The high investments in the automation of industrial processes and the increasing demand for energy-efficient and safe processes are driving the growth of the ICS market in North America. Moreover, the U.S. Industrial Control Systems market held the largest market share, and the Canada Industrial Control Systems market was the fastest-growing market in the North American region.

Industrial Control Systems Key Market Players & Competitive Insights

Major market players are spending a lot of money on R&D to increase their product lines, which will help the Industrial Control Systems market grow even more. Market participants are also taking a range of strategic initiatives to grow their worldwide footprint, with key market developments such as new product launches, contractual agreements, mergers and acquisitions, increased investments, and collaboration with other organizations. Competitors in the Industrial Control Systems industry must offer cost-effective items to expand and survive in an increasingly competitive and rising market environment.

The major market players are investing a lot of money in R&D to expand their product lines, which will spur further market growth for Industrial Control Systems. With significant market development like new product releases, contractual agreements, mergers and acquisitions, increased investments, and collaboration with other organizations, market participants are also undertaking various strategic activities to expand their presence. To grow and thrive in a market climate that is

becoming more competitive and growing, competitors in the Industrial Control Systems industry must offer affordable products.

Manufacturing locally to cut operating costs is one of the main business tactics manufacturers use in the Industrial Control Systems industry to benefit customers and expand the market sector. The Industrial Control Systems market has recently given medicine some of the most important advantages. Major industrial control system market players, including ABB Ltd, Schneider Electric, Honeywell International Inc, Siemens AG, Rockwell Automation, Omron Co, Emerson Electric Co., General Electric Co, Yokogawa Electric Co, Alstom, and others, are attempting to increase market demand by funding R&D initiatives.

ABB Ltd is a Swiss-Swedish multinational corporation headquartered in Zurich, Switzerland. It was founded in 1988 and is one of the largest engineering companies in the world. ABB provides a range of products and services in the fields of electrification, automation, and digitalization. The company operates in over 100 countries and serves a variety of industries, including utilities, transportation, and manufacturing. ABB's product portfolio includes power products and systems, process automation, robotics and motion, and low-voltage products and systems. The company provides a wide range of services, including engineering, project management, and maintenance, as well as digital solutions such as cloud-based services, cybersecurity, and IoT solutions.

Schneider Electric is a French multinational corporation that provides energy management and automation solutions. The company operates in over 100 countries and serves a variety of industries, including data centers, buildings, infrastructure, and industrial processes. Schneider Electric's product portfolio includes energy management systems, building automation systems, critical power and cooling services, and industrial automation solutions. The company also provides a range of digital solutions, including cloud-based services, software, and IoT solutions.

Key Companies in the Industrial Control Systems market includes

- ABB Ltd
- Schneider Electric
- Honeywell International Inc
- Siemens AG
- Rockwell Automation
- Omron Co
- Emerson Electric Co.
- General Electric Co
- Yokogawa Electric Co
- Alstom among others

Industrial Control Systems Industry Developments

April 2022 ABB announced the signing of a Memorandum of Understanding (MoU) with Ramboll to jointly pursue new prospects within offshore substations.

March 2021 E Digital announced the launch of CIMPLICITY and Tracker software which are multi-industry HMI/SCADA and MES routing solutions.

Industrial Control Systems Market Segmentation

Industrial Control Systems Control System Outlook

- SCADA
- DCS
- Hybrid

Industrial Control Systems Component Outlook

- HMI
- PLC
- RTU

- SCADA Communication System

Industrial Control Systems Application Outlook

- Electrical Power
- Oil and Gas
- Water and Water-waste treatment
- Automobile

Industrial Control Systems Regional Outlook

- North America
 - US
 - Canada
- Europe
 - Germany
 - France
 - UK
 - Italy
 - Spain
 - Rest of Europe
- Asia-Pacific
 - China
 - Japan
 - India
 - Australia
 - South Korea
 - Australia
 - Rest of Asia-Pacific
- Rest of the World
 - Middle East
 - Africa
 - Latin America

Table of Content:

Contents
TABLE OF CONTENTS
1 Executive Summary
2 Scope of the Report
2.1 Market Definition
2.2 Scope of the Study
2.2.1 Research Objectives
2.2.2 Assumptions & Limitations
2.3 Markets Structure
3 Market Research Methodology
3.1 Research Process
3.2 Secondary Research
3.3 Primary Research
3.4 Forecast Model

4 Market Landscape

4.1 Porter's Five Forces Analysis

4.1.1 Threat of New Entrants

4.1.2 Bargaining power of buyers

4.1.3 Threat of substitutes

4.1.4 Segment rivalry

4.2 Value Chain/Supply Chain of Global Industrial Control Systems Market

5 Industry Overview of Global Industrial Control Systems Market

5.1 Introduction

5.2 Growth Drivers

5.3 Impact Analysis

5.4 Market Challenges

6 Market Trends

6.1 Introduction

6.2 Growth Trends

6.3 Impact analysis

7 Global Industrial Control Systems Market by Control System

7.1 Introduction

7.2 SCADA

7.2.1 Market Estimates & Forecast, 2022–2030

7.2.2 Market Estimates & Forecast by Region, 2022–2030

7.3 DCS

7.3.1 Market Estimates & Forecast, 2022–2030

7.3.2 Market Estimates & Forecast by Region, 2022–2030

7.4 Hybrid

7.4.1 Market Estimates & Forecast, 2022–2030

7.4.2 Market Estimates & Forecast by Region, 2022–2030

8 Global Industrial Control Systems Market by Components

8.1 Introduction

8.2 HMI

8.2.1 Market Estimates & Forecast, 2022–2030

8.2.2 Market Estimates & Forecast, by Region, 2022–2030

8.3 PLC

8.3.1 Market Estimates & Forecast, 2022–2030

8.3.2 Market Estimates & Forecast, by Region, 2022–2030

8.4 RTU

8.4.1 Market Estimates & Forecast, 2022–2030

8.4.2 Market Estimates & Forecast, by Region, 2022–2030

8.5 Scada Communication Systems

8.5.1 Market Estimates & Forecast, 2022–2030

8.5.2 Market Estimates & Forecast, by Region, 2022–2030

8.6 Others

8.6.1 Market Estimates & Forecast, 2022–2030

8.6.2 Market Estimates & Forecast, by Region, 2022–2030

9 Global Industrial Control Systems Market by Application

9.1 Introduction

9.2 Electrical Power

9.2.1 Market Estimates & Forecast, 2022–2030

9.2.2 Market Estimates & Forecast, by Region, 2022–2030

9.3 Oil & Gas

9.3.1 Market Estimates & Forecast, 2022–2030

9.3.2 Market Estimates & Forecast, by Region, 2022–2030

9.4 Pharmaceutical

9.4.1 Market Estimates & Forecast, 2022–2030

9.4.2 Market Estimates & Forecast, by Region, 2022–2030

9.5 Automobile

9.5.1 Market Estimates & Forecast, 2022–2030

9.5.2 Market Estimates & Forecast, by Region, 2022–2030

9.6 Water & Water-waste Treatment

9.6.1 Market Estimates & Forecast, 2022–2030

9.6.2 Market Estimates & Forecast, by Region, 2022–2030

9.7 Others

9.7.1 Market Estimates & Forecast, 2022–2030

9.7.2 Market Estimates & Forecast, by Region, 2022–2030

10. Global Industrial Control Systems Market by Region

10.1 Introduction

10.2 North America

10.2.1 Market Estimates & Forecast, by Country, 2022–2030

10.2.2 Market Estimates & Forecast, by Control System, 2022–2030

10.2.3 Market Estimates & Forecast, by Components, 2022–2030

10.2.4 Market Estimates & Forecast, by Application, 2022–2030

10.2.5 US

10.2.5.1 Market Estimates & Forecast, by Control System, 2022–2030

10.2.5.2 Market Estimates & Forecast, by Components, 2022–2030

10.2.5.3 Market Estimates & Forecast, by Application, 2022–2030

10.2.6 Canada

10.2.6.1 Market Estimates & Forecast, by Control System, 2022–2030

10.2.6.2 Market Estimates & Forecast, by Components, 2022–2030

10.2.6.3 Market Estimates & Forecast, by Application, 2022–2030

10.2.7 Mexico

10.2.7.1 Market Estimates & Forecast, by Control System, 2022–2030

10.2.7.2 Market Estimates & Forecast, by Components, 2022–2030

10.2.7.3 Market Estimates & Forecast, by Application, 2022–2030

10.3 Europe

10.3.1 Market Estimates & Forecast, Country, 2022–2030

10.3.2 Market Estimates & Forecast, by Control System, 2022–2030

10.3.3 Market Estimates & Forecast, by Components, 2022–2030

10.3.4 Market Estimates & Forecast, by Application, 2022–2030

10.3.5 Germany

10.3.5.1 Market Estimates & Forecast, by Control System, 2022–2030

10.3.5.2 Market Estimates & Forecast, by Components, 2022–2030

10.3.5.3 Market Estimates & Forecast, by Application, 2022–2030

10.3.6 UK

- 10.3.6.1 Market Estimates & Forecast, by Control System, 2022–2030
- 10.3.6.2 Market Estimates & Forecast, by Components, 2022–2030
- 10.3.6.3 Market Estimates & Forecast, by Application, 2022–2030
- 10.3.7 France
 - 10.3.7.1 Market Estimates & Forecast, by Control System, 2022–2030
 - 10.3.7.2 Market Estimates & Forecast, by Components, 2022–2030
 - 10.3.7.3 Market Estimates & Forecast, by Application, 2022–2030
- 10.3.8 Rest of Europe
 - 10.3.8.1 Market Estimates & Forecast, by Control System, 2022–2030
 - 10.3.8.2 Market Estimates & Forecast, by Components, 2022–2030
 - 10.3.8.3 Market Estimates & Forecast, by Application, 2022–2030
- 10.4 Asia-Pacific
 - 10.4.1 Market Estimates & Forecast, by Country, 2022–2030
 - 10.4.2 Market Estimates & Forecast, by Control System, 2022–2030
 - 10.4.3 Market Estimates & Forecast, by Components, 2022–2030
 - 10.4.4 Market Estimates & Forecast, by Application, 2022–2030
 - 10.4.5 China
 - 10.4.5.1 Market Estimates & Forecast, by Control System, 2022–2030
 - 10.4.5.2 Market Estimates & Forecast, by Components, 2022–2030
 - 10.4.5.3 Market Estimates & Forecast, by Application, 2022–2030
 - 10.4.6 Japan
 - 10.4.6.1 Market Estimates & Forecast, by Control System, 2022–2030
 - 10.4.6.2 Market Estimates & Forecast, by Components, 2022–2030
 - 10.4.6.3 Market Estimates & Forecast, by Application, 2022–2030
 - 10.4.7 India
 - 10.4.7.1 Market Estimates & Forecast, by Control System, 2022–2030
 - 10.4.7.2 Market Estimates & Forecast, by Components, 2022–2030
 - 10.4.7.3 Market Estimates & Forecast, by Application, 2022–2030
 - 10.4.8 Rest of Asia-Pacific
 - 10.4.8.1 Market Estimates & Forecast, by Control System, 2022–2030
 - 10.4.8.2 Market Estimates & Forecast, by Components, 2022–2030
 - 10.4.8.3 Market Estimates & Forecast, by Application, 2022–2030
 - 10.5 Rest of the World
 - 10.5.1 Market Estimates & Forecast, Country, 2022–2030
 - 10.5.2 Market Estimates & Forecast, by Control System, 2022–2030
 - 10.5.3 Market Estimates & Forecast, by Components, 2022–2030
 - 10.5.4 Market Estimates & Forecast, by Application, 2022–2030
 - 10.5.5 Middle East & Africa
 - 10.5.5.1 Market Estimates & Forecast, by Control System, 2022–2030
 - 10.5.5.2 Market Estimates & Forecast, by Components, 2022–2030
 - 10.5.5.3 Market Estimates & Forecast, by Application, 2022–2030
 - 10.5.6 Latin America
 - 10.5.6.1 Market Estimates & Forecast, by Control System, 2022–2030
 - 10.5.6.2 Market Estimates & Forecast, by Components, 2022–2030
 - 10.5.6.3 Market Estimates & Forecast, by Application, 2022–2030

11 Company Landscape

12 Company Profiles

- 12.1 ABB Ltd
 - 12.1.1 Company Overview
 - 12.1.2 Product/Business Segment Overview
 - 12.1.3 Financial Updates
 - 12.1.4 Key Developments
- 12.2 Schneider Electric
 - 12.2.1 Company Overview
 - 12.2.2 Product/Business Segment Overview
 - 12.2.3 Financial Updates
 - 12.2.4 Key Developments
- 12.3 Honeywell International Inc
 - 12.3.1 Company Overview
 - 12.3.2 Product/Business Segment Overview
 - 12.3.3 Financial Updates
 - 12.3.4 Key Developments
- 12.4 Siemens AG
 - 12.4.1 Company Overview
 - 12.4.2 Product/Business Segment Overview
 - 12.4.3 Financial Updates
 - 12.4.4 Key Developments
- 12.5 Rockwell Automation
 - 12.5.1 Company Overview
 - 12.5.2 Product/Business Segment Overview
 - 12.5.3 Financial Updates
 - 12.5.4 Key Developments
- 12.6 Omron Corporation
 - 12.6.1 Company Overview
 - 12.6.2 Product/Business Segment Overview
 - 12.6.3 Financial Updates
 - 12.6.4 Key Developments
- 12.7 Emerson Electric Company
 - 12.7.1 Company Overview
 - 12.7.2 Product/Business Segment Overview
 - 12.7.3 Financial Updates
 - 12.7.4 Key Developments
- 12.8 General Electric Company
 - 12.8.1 Company Overview
 - 12.8.2 Product/Business Segment Overview
 - 12.8.3 Financial Updates
 - 12.8.4 Key Developments
- 12.9 Yokogawa Electric Company
 - 12.9.1 Company Overview
 - 12.9.2 Product/Business Segment Overview
 - 12.9.3 Financial Updates
 - 12.9.4 Key Developments
- 12.10 Alstom

12.10.1 Company Overview
12.10.2 Product/Business Segment Overview
12.10.3 Financial Updates
12.10.4 Key Developments

13 Conclusion

LIST OF TABLES

Table 1 Global Industrial Control Systems Market, by Region, 2022–2030
Table 2 North America: Industrial Control Systems Market, by Country, 2022–2030
Table 3 Europe: Industrial Control Systems Market, by Country, 2022–2030
Table 4 Asia-Pacific: Industrial Control Systems Market, by Country, 2022–2030
Table 5 Rest of The World: Industrial Control Systems Market, by Country, 2022–2030
Table 6 Global Industrial Control Systems Market, by Control System 2022–2030
Table 7 North America: Industrial Control Systems Market, by Control System, 2022–2030
Table 8 Europe: Industrial Control Systems Market, by Control System, 2022–2030
Table 9 Asia-Pacific: Industrial Control Systems Market, by Control System, 2022–2030
Table 10 Rest of the world: Industrial Control Systems Market, by Control System, 2022–2030
Table 11 Global Industrial Control Systems Market, by Component, 2022–2030
Table 12 North America: Industrial Control Systems Market, by Component, 2022–2030
Table 13 Europe: Industrial Control Systems Market, by Component, 2022–2030
Table 14 Asia-Pacific: Industrial Control Systems Market, by Component, 2022–2030
Table 15 Rest of the World: Industrial Control Systems Market, by Component, 2022–2030
Table 16 Global Industrial Control Systems Market, by Application, 2022–2030
Table 17 North America: Industrial Control Systems Market, by Application, 2022–2030
Table 18 Europe: Industrial Control Systems Market, by Application, 2022–2030
Table 19 Asia-Pacific: Industrial Control Systems Market, by Application, 2022–2030
Table 20 Rest of the World: Industrial Control Systems Market, by Application, 2022–2030

LIST OF FIGURES

FIGURE 1 Global Industrial Control Systems Market Segmentation
FIGURE 2 Forecast Methodology
FIGURE 3 Porter's Five Forces Analysis of Global Industrial Control Systems Market
FIGURE 4 Value Chain of Global Industrial Control Systems Market
FIGURE 5 Share of Global Industrial Control Systems Market in 2022, by Country (in %)
FIGURE 6 Global Industrial Control Systems Market, 2022–2030
FIGURE 7 Global Industrial Control Systems Market Size, by Control System, 2022
FIGURE 8 Share of Global Industrial Control Systems Market, by Control System, 2022 to 2030
FIGURE 9 Global Industrial Control Systems Market Size, by Component, 2022
FIGURE 10 Share of Global Industrial Control Systems Market, by Component, 2022 to 2030
FIGURE 11 Global Industrial Control Systems Market Size, by Application, 2022 to 2030
FIGURE 12 Share of Global Industrial Control Systems Market, by Application, 2022 to 2030