

# **Europe Industrial Automation Market Forecast to 2030 - Regional Analysis - by Component (Hardware and Software), System (Supervisory Control and Data Acquisition, Distributed Control System, Programmable Logic Control, and Other), and End User (Oil & Gas, Automotive, Food & Beverages, Chemical & Materials, Aerospace & Defense, and Others)**

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## **Abstracts**

The Europe industrial automation market is expected to grow from US\$ 53,689.1 million in 2022 to US\$ 94,606.0 million by 2030. It is estimated to grow at a CAGR of 7.3% from 2022 to 2030.

Increase in Machine Vision Systems Adoption for Industrial Automation Fuels Europe Industrial Automation Market

Machine vision users and systems integrators have exploited better imaging, optics, illumination, and software for nearly 40 years. Even though machine vision is a somewhat mature technology, lower component, software, and engineering costs and increased simplicity of use and application expansion continue to drive machine vision acceptance across industries.

In 2021, due to the COVID-19 pandemic, manufacturers accelerated the deployment of machine vision technology for industrial automation to keep operations running as effectively as possible and keep up with the increasing demand as businesses scrambled to bolster digital infrastructure, supporting remote workers.

Additionally, logistics-related apps experienced a rise due to a surge in online purchase volumes. Imaging systems in retail distribution centers and automated warehouse storage and retrieval systems, and manufacturers of PPE-related items, such as face

masks, face shields, protective garments, and respirators were among them. Other factors influencing the uptake of machine vision systems for industrial automation include predictive maintenance, packaging inspection, automated barcode reading, product and component assembly, defect reduction, and 3D vision inspection. Moreover, the rise in investment by companies to develop new products through machine vision technology for industrial automation is further propelling the market. For instance, in January 2022, the Khronos Group launched a new initiative with the European Machine Vision Alliance (EMVA) to produce an open, royalty-free API standard to regulate camera system runtimes in embedded, mobile, industrial, XR, automotive, and scientific industries. Thus, the rise in investments by companies is boosting the uptake of machine vision systems for industrial automation.

#### Europe Industrial Automation Market Overview

Europe is one of the early adopters of robotics systems across manufacturing facilities. Furthermore, the ongoing developments in IoT-based technologies are propelling the adoption of robots in the region. The European Commission (EC) is primarily focusing on R&D funding in automation to boost the competitiveness of its manufacturing sector and continue dominance in global technological leadership. EC sanctioned a budget of US\$ 780 million for R&D in robotics and other technologies, such as AI and Cobots, from 2018 to 2020.

The automotive sector invests extensively in new production capabilities and the industry 4.0 infrastructure. The automotive sector is a leading end-use industry for robotic applications, accounting for half of the robot shipments in Europe. Automotive assembly automation involves streamlining repetitive processes, such as material handling, welding, and assembling auto body components. Automotive manufacturers can save on rework and labor costs and improve quality and repeatability with vision, robotics, and software integration. Europe is home to many prominent car manufacturers, including BMW, Volkswagen, Renault, and Peugeot. Thus, the robust automotive industry is boosting the adoption of automated solutions in the region, which is driving the market growth.

#### Europe Industrial Automation Market Revenue and Forecast to 2030 (US\$ Million)

#### Europe Industrial Automation Market Segmentation

The Europe industrial automation market is segmented into component, system, end user, and country.

Based on component, the Europe industrial automation market is segmented into hardware and software. The hardware segment held a larger share of the Europe industrial automation market in 2022. The hardware is further sub segmented into motors and drives, robots, sensors, machine vision systems, and others.

Based on system, the Europe industrial automation market is segmented into supervisory control and data acquisition, distributed control system, programmable logic

control, and other. The distributed control system segment held the largest share of the Europe industrial automation market in 2022.

Based on end user, the Europe industrial automation market is segmented into oil & gas, automotive, food & beverage, chemical & materials, aerospace & defense, and others. The automotive segment held the largest share of the Europe industrial automation market in 2022.

Based on country, the Europe industrial automation market is segmented into France, Germany, the UK, Italy, Russia, and the Rest of Europe. Germany dominated the Europe industrial automation market in 2022.

ABB Ltd, Bosch Rexroth AG, Emerson Electric Co, Hitachi Ltd, Honeywell International Inc, Mitsubishi Electric Corp, OMRON Corp, Rockwell Automation Inc, Schneider Electric SE, and Siemens AG are some of the leading companies operating in the Europe industrial automation market.

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