

# North America Manufacturing Automation Market Size, Share & Trends Analysis Report By Component (Hardware, Software), By Technology (PLC, Robotics), By Deployment, By End-use, By Industry Vertical, By Country, And Segment Forecasts, 2024 - 2030

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## Abstracts

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### North America Manufacturing Automation Market Growth & Trends

The North America manufacturing automation market size is anticipated to reach USD 6.49 billion by 2030 and is projected to grow at a CAGR of 9.7% from 2024 to 2030, according to a new report by Grand View Research, Inc. The market is undergoing substantial growth primarily owing to increasing adoption of automated technologies across businesses to optimize their operations, increase production capacity, and reduce manual labor. Moreover, the advantages associated with introducing automation at manufacturing plants, such as increased precision, reduced errors, and better workplace safety, are also positively influencing the regional market outlook.

The manufacturing industry in North America is showing a greater inclination to automation technology, with more companies seeking ways to increase efficiency and lowering costs, automation in factories, Industry 4.0, and other connected manufacturing solutions will witness increased adoption. For instance, the automotive industry uses robotic process automation (RPA) to enhance safety and productivity, working alongside humans to perform tasks in less time and with high quality control. This technology reduces human error in processes requiring precise manufacturing and automated documentation and is equipped with built-in safety features. Such developments are creating lucrative opportunities for the market growth.

The market growth is being further propelled by the emergence of innovative digital technologies, further proliferating the market growth such as Artificial Intelligence (AI), Machine Learning (ML), Internet of Things (IoT), 5G connectivity, immersive technologies, 3D printing, and cloud-based services, among others. Several market players are inclined to enhance their product portfolio by introducing new technologies to cater to the changing customer demands. For instance, in February 2023, Mitsubishi Electric Corporation updated their software iQ Works<sup>2</sup> and RT Toolbox<sup>3</sup>. A new visual editor for SCADA and six-axis industrial robot programming is part of their latest update in the software. The upgrade also includes improved user-friendliness, which is expected to simplify the setup of automated applications.

### North America Manufacturing Automation Market Report Highlights

Based on component, the hardware segment is expected to witness at a substantial CAGR over the forecast period. The increasing adoption of smart technologies to improve manufacturing efficiency, reduce downtime, and enhance product quality is driving the demand for hardware components

Based on technology, the PLC segment led the market with the largest revenue share of 69.3% in 2023, on account of increasing application of this technology in manufacturing units to control various operations and processes, including robotic devices and assembly lines

Based on deployment, the on-premises segment held the market with the significant revenue share of 53.2% in 2023, owing to higher consumer preference for this deployment mode as it offers manufacturers greater control over their automation systems and data

Based on end-use, the process manufacturing segment is estimated to register at a substantial CAGR over the forecast period, as automation technologies enable continuous process improvement in areas, which includes refining production processes, optimizing resource utilization, and minimizing waste

Based on industry vertical, the automotive segment is anticipated to grow at a considerable CAGR during the forecast period, due to high demand for automation systems in this sector to increase efficiency and reduce the cost of production downtime. Several automakers are deploying collaborative robots for various important applications, including spot and arc welding, assembling parts,

painting, coating, etc.

Based on application, the assembly line automation segment led the market with the notable revenue share of 54.7% in 2023. Automation involves the use of advanced technologies and systems, which are extensively applied in assembly lines to enhance efficiency, precision, and overall productivity

Based on solution, the control systems segment is anticipated to grow at the fastest CAGR during the forecast period. Control Systems such as Distributed Control Systems (DCS) and Supervisory Control and Data Acquisition (SCADA) are used for automating and optimizing production processes. They allow businesses to achieve efficiency by controlling and monitoring various aspects of manufacturing operations

Based on enterprise size, the large enterprises segment find extensive usage of automation technologies to handle large-scale operations, ensuring consistent and rapid production without providing high-quality control

U.S. holds a significant share of the market in 2023, owing to increasing inclination for smart manufacturing coupled with the strong presence of various major manufacturing automation players in the country

In July 2023, ATS Corporation acquired Yazzoom BV, a Belgium-based company specializing in artificial intelligence (AI) and machine learning (ML) tools for industrial production. This acquisition is anticipated to contribute to the enhancement of the company's productivity and efficiency by leveraging advanced AI and ML technologies in industrial processes

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