

North America Industrial Robotics Market Forecast to 2030 - Regional Analysis - by Types (Articulated, Cartesian, SCARA, Collaborative, Parallel, and Others), Function (Soldering and Welding, Material Handling, Assembling and Disassembling, Painting and Dispensing, Milling, and Cutting and Processing), and Industry (Automotive, Medical and Pharmaceuticals, Electrical and Electronics, Rubber and Plastics, Metal and Machinery, and Food and Agriculture)

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Abstracts

The North America industrial robotics market is expected to grow from US\$ 2,444.77 million in 2022 to US\$ 5,286.87 million by 2030. It is estimated to grow at a CAGR of 10.1% from 2022 to 2030.

Advancements in Automation and Industry 4.0 Drives North America Industrial Robotics Market

Several governments worldwide have enacted strict automotive emission and fuel economy legislation standards. These standards aim to improve the overall efficiency of vehicles and reduce their carbon footprint. In order to meet the standards in limited time companies are adopting automation in their production lines. Owing to this, the number of active industrial robots worldwide is increasing by ~14% year on year, and automation is creating new types of robots with increased utility and function. Future factories will certainly have machines and humans working side by side to meet

consumer demand—a new reality for which business owners should be prepared. This leads to increased production and less human fatigue and reduce overtime hours. Industry 4.0 refers to the present industrial revolution, driven by advancements in robotics, automation, and the Internet of Things (IoT). The growth of industrial IoT and artificial intelligence is likely to significantly impact robots. New maintenance tactics, more autonomous robots, and new collaborative robotics technologies are made possible by Industry 4.0 technology. Industrial robots and Industry 4.0 technologies can help revolutionize companies over the next few years by streamlining machine management and automating operations that were previously done by human hands. Automation solutions enable remote digital connectivity and robot monitoring. The North America industrial robotics market is growing from past decade due to the rise in global automation and the acceptance of industry 4.0 work models.

North America Industrial Robotics Market Overview

The North America industrial robotics market is segmented into the US, Canada, and Mexico. The US holds the largest share of the North America industrial robotics market. The market in North America is expected to grow owing to the factors such as the wide availability of competitors, rising product approvals, growing automotive industry, coupled with an increasing number of industrial procedures and well-established industrial infrastructure.

In North America, both unit and revenue order volumes recorded the highest values in 2022. According to the International Federation of Robotics (IFR), the North America robotics market grew strongly in 2022; in the manufacturing sector, the number of robot installations increased by 12%, reaching 41,624 units. For the automotive industry, various organizations in the US, Canada, and Mexico deployed 20,391 industrial robots in 2022; registering growth of 30% as compared to 2021. Hence, owing to this growth, North America has become the world's second-largest inventory of industrial robots after China. According to the President of IFR, the US, Canada, and Mexico are key markets for robotic automation, with the automotive sector being the primary user of industrial robots. North America is focused on developing various products related to industrial robotics. For example, Automate, North America's largest robotics and industrial automation trade expo organized by the Association for Advancing Automation, will return by 2024; this is expected to develop into an annual event. The event will be held on May 6–9, 2024, at McCormick Place in Chicago, and it will return to Detroit by 2025.

In 2022 and 2023, there were continuous exhibits, which led to tremendous interest in Automate. Such events are expected to further boost the popularity of industrial robotics in the region during the forecast period.

North America Industrial Robotics Market Revenue and Forecast to 2030 (US\$ Million)

North America Industrial Robotics Market Segmentation

The North America industrial robotics market is segmented into types, function, industry, and country.

Based on types, the North America industrial robotics market is segmented into articulated, cartesian, SCARA, collaborative, parallel, and others. In 2022, the articulated segment registered the largest share in the North America industrial robotics market.

Based on function, the North America industrial robotics market is segmented into soldering and welding, material handling, assembling and disassembling, painting and dispensing, milling, and cutting and processing. In 2022, the soldering and welding segment registered the largest share in the North America industrial robotics market.

Based on industry, the North America industrial robotics market is segmented into automotive, medical and pharmaceuticals, electrical and electronics, rubber and plastics, metal and machinery, and food and agriculture. In 2022, the automotive segment registered the largest share in the North America industrial robotics market.

Based on country, the North America industrial robotics market is segmented into the US, Canada, Mexico. In 2022, the US registered the largest share in the North America industrial robotics market.

ABB Ltd, Comau SpA, Fanuc Corp, Kawasaki Heavy Industries Ltd, Kuka AG, Mitsubishi Electric Corp, Seiko Epson Corp, Staubli International AG, Universal Robots AS, and Yaskawa Electric Corp are some of the leading companies operating in the North America industrial robotics market.

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