

North America Autonomous Mobile Robots Market Forecast to 2030 - Regional Analysis - by Component (Hardware and Software & Services), Type (Picking Robots, Self-Driving Forklifts, and Autonomous Inventory Robots), and End Use (Manufacturing and Distribution & Warehousing)

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Abstracts

The North America autonomous mobile robots market was valued at US\$ 365.60 million in 2022 and is expected to reach US\$ 2,024.80 million by 2030; it is estimated to grow at a CAGR of 23.9% from 2022 to 2030.

Growing Demand for Automated Systems fuel the North America Autonomous Mobile Robots Market

Industry 4.0 transforms how companies manufacture, process, and distribute their products. They are incorporating new technologies such as the Internet of Things (IoT), robotics, analytics, AI, and machine learning into their facilities to boost operational and production efficiencies. Factory automation plays a crucial role in the automation of manufacturing processes to increase production output in minimal time and low labor costs. In addition, it helps improve product quality by minimizing the risk of human error. As a result, industries such as healthcare, automotive, and aerospace are proactively adopting factory automation solutions. In March 2023, ADLINK Technology Inc. launched its latest AMR with the SWARM CORE software platform that integrates the software and hardware for efficient material handling, warehousing, and shipping in smart manufacturing facilities. Therefore, the growing demand for automation in various industries propels the growth of the North America autonomous mobile robots market.

North America Autonomous Mobile Robots Market Overview

The North America autonomous mobile robots (AMR) market is segmented into the US, Canada, and Mexico. AMRs can operate in many complex and flexible environments in the logistics, manufacturing, healthcare, hospitality, and other industries, thereby maximizing their operational efficiencies. According to the International Federation of Robotics (IFR), the North American robotics market represented a strong growth with a 12% increase in the total installation of robots in the manufacturing sector in 2022 compared to 2021; 30% of this increase was in the automotive industry, while electrical and electronics industries accounted for a 28% of the rise. The automotive industry has shown a large-scale adoption of robots due to rising sales of automobiles and growing government initiatives in North American countries to boost the adoption of electric vehicles. In September 2022, the economic plan announced by the US President aimed to boost the manufacturing of electric vehicles. The country has set a target of raising the share of electric vehicles share to 50% of the total vehicle sales by 2030. Companies such as Honda, Toyota, General Motors, Ford Motor Company, and Panasonic have announced investments in manufacturing in their manufacturing facilities in North Carolina, Missouri, Michigan, Kansas, and Ohio, respectively. With the growing focus on scaling up automotive production to stay competitive in the automotive market, several companies are adopting automated solutions in their manufacturing and assembly plants.

North America Autonomous Mobile Robots Market Revenue and Forecast to 2030 (US\$ Million)

North America Autonomous Mobile Robots Market Segmentation

The North America autonomous mobile robots market is segmented based on component, type, end use, and country. Based on component, the North America autonomous mobile robots market is bifurcated into hardware and software & services. The hardware navigation segment held a larger market share in 2022.

Based on type, the North America autonomous mobile robots market is segmented into picking robots, self-driving forklifts, and autonomous inventory robots. The picking robots segment held the largest market share in 2022.

Based on end use, the North America autonomous mobile robots market is bifurcated

into manufacturing and distribution & warehousing. The manufacturing segment held a larger market share in 2022.

Based on country, the North America autonomous mobile robots market is segmented into the US, Canada, and Mexico. The US dominated the North America autonomous mobile robots market share in 2022.

ABB Ltd; Boston Dynamics Inc; Clearpath Robotics Inc; Geekplus Technology Co Ltd; Kivnon Logistica SL; Locus Robotics Corp; Milvus Robotics; OMRON Corp; and Teradyne Inc are some of the leading companies operating in the North America autonomous mobile robots market.

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