

North America AutoStore ASRS Market Size and Forecast (2021 - 2031)

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Abstracts

The North America AutoStore Automated Storage and Retrieval Systems (ASRS) market is projected to grow significantly, reaching an estimated US\$ 181.2 million by 2031, up from US\$ 89.8 million in 2024. This growth represents a compound annual growth rate (CAGR) of 10.8% from 2025 to 2031, indicating a robust demand for automated storage solutions across various industries.

Executive Summary and Market Analysis

In recent years, businesses in sectors such as retail, third-party logistics (3PL), healthcare, and manufacturing have increasingly invested in AutoStore's innovative modular cube-based storage systems. These systems are designed to enhance order accuracy, increase throughput, and optimize space utilization. One of the key advantages of AutoStore technology is its scalability, allowing companies to adapt to fluctuating demand while maintaining operational efficiency.

In April 2024, AutoStore announced the relocation of its US headquarters to a newly developed facility in Salem, New Hampshire. This strategic move not only signifies the company's commitment to expanding its presence in North America but also brings over 100 new jobs to the greater Boston area. The new headquarters will serve as a center for innovation, training, and customer collaboration, facilitating quicker deployment and improved service for clients in the region.

AutoStore boasts an impressive 99.8% uptime, a flexible grid architecture, and an energy-efficient design, making it an attractive option for companies grappling with rising space and labor costs. The adoption of AutoStore systems by leading retailers, logistics providers, and healthcare organizations underscores its reputation for speed,

reliability, and adaptability in warehouse automation. The company's ongoing expansion highlights North America as a critical market for long-term growth and technological leadership in the ASRS sector.

Strategic Insights

Market Segmentation Analysis

The North America AutoStore ASRS market can be segmented by type and end-use industry. By type, the market includes categories such as Storage, Order Picking, Distribution, Kitting, Assembly, and Others, with the Storage segment leading the market in 2024. In terms of end-use industries, the market is divided into Automotive, Food and Beverage, Electronics and Semiconductors, E-commerce, Chemicals, Aerospace, Retail, Pharmaceutical, and Others, with the Automotive sector also dominating in 2024.

Market Outlook

The rapid growth of e-commerce and the emergence of omnichannel fulfillment models have dramatically changed the operations of warehouses and distribution centers. Consumers now demand faster delivery times, real-time inventory visibility, and seamless order fulfillment across both digital and physical channels. This shift has placed immense pressure on supply chains to become more responsive and efficient. Automated Storage and Retrieval Systems (ASRS), particularly cube-based systems like AutoStore, have played a pivotal role in this transformation.

These systems provide compact storage solutions, high-density configurations, and the capability to manage large volumes of stock-keeping units (SKUs) with speed and precision. AutoStore's design allows goods to be stored in bins within a grid, which are then retrieved by robots operating above, thereby minimizing space usage while maximizing throughput. This is particularly beneficial for e-commerce operations, where order sizes may be small but frequent, necessitating a flexible system capable of fulfilling thousands of orders daily.

The rapid retrieval and dispatch of items not only enhance customer satisfaction but also alleviate operational bottlenecks. ASRS systems are adept at handling peak-season demand spikes without requiring a proportional increase in workforce, making them an essential investment as online retail continues to expand globally. Businesses are increasingly recognizing the long-term benefits of these systems in terms of speed,

accuracy, and scalability.

Country Insights

The North America AutoStore ASRS market is further segmented by country, including the United States, Canada, and Mexico. The United States held the largest market share in 2024, leading advancements in warehouse automation driven by the need for ultra-high-density cube storage and expedited e-commerce order fulfillment. The growing demands from retail, 3PL, and industrial sectors have prompted companies to adopt sophisticated AutoStore ASRS solutions that offer exceptional space utilization, scalability, and adaptability to evolving supply chain needs.

In August 2025, AutoStore Holdings Ltd. announced the commercial launch of its next-generation Black Line Robot, designed to enhance the performance of the AutoStore Grid platform. This upgraded robot features improved battery life, faster movement, better bin handling for increased throughput, and enhanced flexibility for port configurations, making it a robust solution for modern, high-volume piece-picking distribution environments.

The US remains at the forefront of ASRS innovation, with companies focusing on integrating advanced cube-based robotics, AI-driven software, and flexible system designs. This commitment to modernization reflects the country's dedication to enhancing logistics infrastructure and ensuring supply chain resilience through automation.

Company Profiles

Key players in the North America AutoStore ASRS market include KNAPP AG, Daifuku Co Ltd, Swisslog Holding AG, System Logistics SpA, Kardex Holding AG, Mecalux SA, Vanderlande Industries BV, Autocrib Inc, SSI SCHAEFER Group, Bastian Solutions LLC, Exotec SAS, Hai Robotics Co Ltd, Modula GROUP, H?nel GmbH & Co. KG, Weland Solutions AB, Beijing Geekplus Technology Co Ltd, Ferretto Group SpA, Craftsman Storage Systems, and Gonvarri Material Handling. These companies are employing various strategies, including expansion, product innovation, and mergers and acquisitions, to deliver innovative solutions and enhance their market share.

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