

Automated Storage and Retrieval System Market by Function (Storage, Distribution, Assembly), Type (Unit Load, Mini Load, Vertical Lift Module, Carousel, Mid Load), Vertical (Automotive, Food & Beverages, E-Commerce, Retail) - Global Forecast to 2028

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Abstracts

The ASRS market is estimated to be worth USD 8.7 billion in 2023 and is projected to reach USD 12.7 billion by 2028, at a CAGR of 7.9% during the forecast period. The ASRS market is experiencing robust growth, primarily driven by the burgeoning demand in the e-commerce and automotive sectors. These industries, characterized by complex supply chains and rapid inventory turnover, require highly efficient and accurate storage and retrieval solutions. ASRS systems cater to this need by automating warehouse operations, reducing errors, and optimizing space utilization. Furthermore, the increased emphasis on inventory management and control, fueled by the need for cost reduction and improved customer service, has propelled the adoption of ASRS.

“Unit Load to hold the largest in ASRS market in 2022.”

A unit load ASRS is a storage-retrieval machine (SRM) or a crane designed to handle large machinery or equipment (i.e., pallets, gaylords, drums, racks, etc.) that typically weigh over 400 lbs. This system excels in optimizing space utilization by stacking pallets densely, reducing the need for manual labor, and minimizing errors in retrieval and storage processes. Additionally, unit load ASRS is known for its scalability, making it adaptable to a wide range of industries and storage requirements. Its ability to integrate seamlessly with warehouse management software and other automated systems further enhances its appeal in modern supply chain operations.

“Food & Beverages vertical to hold the largest share of ASRS market in 2022.”

The food & beverages vertical has undergone a significant evolution in recent years. The growing trend of consuming processed food and packaged eatables is driving the need for advanced manufacturing and warehousing solutions among manufacturers. In the food & beverages vertical, the time-to-market of finished products is significantly less due to the perishability of products. Technological advances in cold chain storage and transport and the growing acceptance of frozen foods among consumers are a few factors influencing the growth of the ASRS market.

“Europe to hold the largest market share of ASRS market in 2022.”

Europe has a well-established industrial and manufacturing sector, including automotive, aerospace, pharmaceuticals, and logistics, all of which benefit from the efficiency gains offered by ASRS technology. Additionally, European countries place a strong emphasis on sustainability and resource optimization, driving the adoption of ASRS systems to improve warehouse space utilization and reduce energy consumption. The region has an exceptionally high labor cost; therefore, manufacturers in European countries have been adopting automated solutions to reduce overall operational costs. Implementing these solutions helps manufacturers remain competitive by facilitating efficient management of overall warehousing operations. Furthermore, the region's commitment to technological innovation and digitalization has spurred the growth of the ASRS market, making Europe a hub for advanced automation solutions in warehousing and logistics.

The break-up of the profiles of primary participants:

By Company Type – Tier 1 – 45%, Tier 2 – 30%, and Tier 3 – 25%

By Designation – C-level Executives – 35%, Directors – 45%, and Others – 20%

By Region – North America - 30%, Europe – 25%, Asia Pacific – 35%, and Rest of the World – 10%

Major players in the ASRS market are Daifuku Co., Ltd (Japan), Murata Machinery, Ltd. (Japan), SSI SCHAEFER (Germany), TGW Logistics Group GmbH (Austria) and Kardex Holding AG (Switzerland).

Research Coverage

Automated Storage and Retrieval System Market by Function (Storage, Distribution, Assembly), Type (Unit Load,...

The report segments the ASRS market by type, vertical, and region. The report also comprehensively reviews drivers, restraints, opportunities, and challenges influencing market growth. The report also covers qualitative aspects in addition to the quantitative aspects of the market.

Reasons to buy the report:

The report will help the market leaders/new entrants with information on the closest approximate revenues for the overall ASRS market and related segments. This report will help stakeholders understand the competitive landscape and gain more insights to strengthen their position in the market and plan suitable go-to-market strategies. The report also helps stakeholders understand the market pulse and provides information on key market drivers, restraints, opportunities, and challenges.

The report provides insights on the following pointers:

Analysis of key drivers (ASRS demand surges due to better space optimization and high labor costs, Growing adoption of ASRS in the e-commerce vertical, Higher emphasis on inventory management and control to fuel ASRS demand, and Rising demand for ASRS in the automotive vertical is driving the market), restraints (High installation and maintenance cost and Limited technical expertise for overseeing system operations are hindering the growth of the market), opportunities (Growing demand for cold chain systems in the Asia Pacific and Potential growth prospects in healthcare vertical), and challenges (Production and revenue losses attributed to unwanted faults and downtime and Rapid technology advancements are resulting as a risk for ASRS systems to become obsolete) influencing the growth of the ASRS market.

Product Development/Innovation: Detailed insights on upcoming technologies, research and development activities, and new product launches in the ASRS market.

Market Development: Comprehensive information about lucrative markets – the report analyses the ASRS market across varied regions.

Market Diversification: Exhaustive information about new products, untapped geographies, recent developments, and investments in the ASRS market.

Competitive Assessment: In-depth assessment of market shares, growth strategies, and product offerings of leading players like Daifuku Co., Ltd (Japan), Murata Machinery, Ltd. (Japan), SSI SCHAEFER (Germany), TGW Logistics Group GmbH (Austria) and Kardex Holding AG (Switzerland).

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