

# **Automated Storage and Retrieval System Market Report by Type (Vertical Lift Modules, Carousels, Crane-Based, Vertical Buffer Modules, Robotic Shuttles, Floor Robots), Load (Unit-Load ASRS, Mini-Load ASRS, Micro-Load ASRS), Application (Storage, Order Picking, Kitting, Buffering, and Others), End User (Automotive, Semiconductor and Electronics, General Manufacturing, Retail and Warehousing or Logistics, Aviation, Chemicals, Rubber and Plastics, Healthcare and Pharma, Food and Beverage, Postal and Parcel, and Others), and Region 2024-2032**

<https://marketpublishers.com/r/AC03F2D119B6EN.html>

Date: April 2024

Pages: 137

Price: US\$ 3,899.00 (Single User License)

ID: AC03F2D119B6EN

## **Abstracts**

The global automated storage and retrieval system market size reached US\$ 20.8 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 35.8 Billion by 2032, exhibiting a growth rate (CAGR) of 6.1% during 2024-2032.

Automated storage and retrieval system (ASRS) is a computer-controlled device that places and recovers loads from specified storage locations accurately in a facility. It consists of shuttles, cranes, carousels, vertical lift modules (VLMs), micro-loads, mini-loads, unit-loads, warehouse execution software (WES) and warehouse management software (WMS). It offers several advantages, such as efficient use of the floor space, reclaiming unused vertical space, increasing inventory storage density, improving ergonomics and safety, enhancing throughput, and reducing labor costs. As a result, it finds extensive applications in the aviation, automotive, chemical, e-commerce, food and beverage (F&B), and healthcare industries.

### Automated Storage and Retrieval System Market Trends:

At present, there is a rise in the demand for fast, precise, and efficient fulfillment of in-store retailing to ensure customer satisfaction across the globe. This, along with the growing industrial automation for improving productivity and quality while increasing safety, reducing errors, and adding flexibility to the manufacturing process, represents one of the key factors driving the market. Moreover, there is a rise in technological advancements in ASRS assisted by cutting-edge sensors. This, coupled with the escalating demand for enhanced storage systems in various industries, is propelling the growth of the market. In addition, governments of several countries are extensively investing in developing digital infrastructure, which is positively influencing the market. Besides this, the increasing order volume in the e-commerce sector due to ease of selling internationally, retargeting customers, and personalization of the buying experience is offering lucrative growth opportunities to industry investors. Apart from this, the increasing utilization of ASRS by small and mid-size enterprises (SMEs) to reduce human interaction is bolstering the growth of the market.

### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global automated storage and retrieval system market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on type, load, application, and end user.

### Breakup by Type:

- Vertical Lift Modules
- Carousels
- Horizontal Carousels
- Vertical Carousels
- Crane-Based
- Vertical Buffer Modules
- Robotic Shuttles
- Floor Robots

### Breakup by Load:

- Unit-Load ASRS
- Fixed-Aisle ASRS
- Movable-Aisle ASRS

Mini-Load ASRS  
Micro-Load ASRS

Breakup by Application:

Storage  
Order Picking  
Kitting  
Buffering  
Others

Breakup by End User:

Automotive  
Semiconductor and Electronics  
General Manufacturing  
Retail and Warehousing or Logistics  
Aviation  
Chemicals, Rubber and Plastics  
Healthcare and Pharma  
Food and Beverage  
Postal and Parcel  
Others

Breakup by Region:

North America  
United States  
Canada  
Asia-Pacific  
China  
Japan  
India  
South Korea  
Australia  
Indonesia  
Others  
Europe  
Germany

France  
United Kingdom  
Italy  
Spain  
Russia  
Others  
Latin America  
Brazil  
Mexico  
Others  
Middle East and Africa

#### Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Beumer Group GmbH & Co. KG, Daifuku Co. Ltd., Dematic (Kion Group AG), Honeywell International Inc., Kardex Group, Knapp AG, Mecalux S.A., Murata Machinery Ltd., Schaefer Systems International Pvt Ltd, System Logistics S.p.A. (Krones AG), TGW Logistics Group, Toyota Industries Corporation and Viastore Systems.

#### Key Questions Answered in This Report

1. What was the size of the global automated storage and retrieval system market in 2023?
2. What is the expected growth rate of the global automated storage and retrieval system market during 2024-2032?
3. What are the key factors driving the global automated storage and retrieval system market?
4. What has been the impact of COVID-19 on the global automated storage and retrieval system market?
5. What is the breakup of the global automated storage and retrieval system market based on the type?
6. What is the breakup of the global automated storage and retrieval system market based on the load?
7. What is the breakup of the global automated storage and retrieval system market based on the application?
8. What is the breakup of the global automated storage and retrieval system market based on the end user?
9. What are the key regions in the global automated storage and retrieval system

market?

10. Who are the key players/companies in the global automated storage and retrieval system market?

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