

Automated Storage And Retrieval Systems Market Size, Share & Trends Analysis Report By Function (Assembly, Distribution), By Vertical (Healthcare, Automotive), By Type, By Region, And Segment Forecasts 2025 - 2030

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Abstracts

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Automated Storage And Retrieval Systems Market Growth & Trends

The global automated storage and retrieval systems market size is estimated to reach USD 10.31 billion by 2030, expanding at a CAGR of 8.0% from 2025 to 2030, according to a new report by Grand View Research, Inc. Automated storage and retrieval systems (AS/RS) are computer-aided or robotic systems that store and retrieve products or items at a specific place on racks/shelves in warehouses or storage places. The machines follow an established route to place or retrieve the item from a specific location. The high volume of loads can be quickly and efficiently moved with AS/RS. The AS/RS systems are a boon to the warehousing sector as the industry reels with labor shortages and skilled labor.

According to a DHL report in 2019, only 5% of total warehouses had installed automated storage and retrieval systems. The trend displays a promising opportunity for the market's growth in the coming years as companies are increasingly adopting AS/RS for automating their warehouses. Technological development such as artificial intelligence and machine learning are aiding the growth of the target market. In November 2021, Honeywell International Inc. launched a new AS/RS system powered by machine learning and artificial intelligence algorithms. The system optimized the warehousing operation by adjusting to the user's needs through decision intelligence. Also, Honeywell's

AI-powered AS/RS can manage 20,000 stock-keeping units (SKU) with 40% more throughput.

The e-commerce boom has resulted in the increasing importance of inventory management and control. The AS/RS aids in efficient inventory management as it keeps track of which product is stored where. It also tracks the volume of available inventory. Installation of AS/RS significantly improves the efficiency of the warehouses and substantially reduces the delivery time. For instance, SAM Outillage, a French tools manufacturer, witnessed a 25% jump in its productivity across operations by installing AS/RS for 80% of its stock-keeping unit (SKU). The company can now deliver orders within 24hrs owing to the agility brought by the automated system.

The COVID-19 pandemic accelerated the adoption of automation technologies, such as automated storage and retrieval systems in the logistics sector. The social distancing norms necessitated the deployment of automation tools in warehousing functions and operations. Labor shortages during the pandemic led to increased adoption of the AS/RS during the pandemic. Retail, e-commerce, and healthcare sectors were booming during the pandemic and were among the top verticals of the AS/RS market.

Automated Storage And Retrieval System Market Report Highlights

The unit load cranes segment dominated the market in 2024 with a revenue share of about 21.8%. Unit load cranes can store large loads and can reach up to 100 feet or more of height.

The order-picking function segment is expected to grow at the fastest CAGR from 2025 to 2030. Order picking is the first stage in the fulfillment process for a consumer's order. Order picking function is gaining more importance owing to the growth of the e-commerce sector.

The retail and e-commerce segment dominated the market in 2024, with a revenue share of 29.3%. The growth can be attributed to the increasing need for efficient inventory management and control in retail.

Asia Pacific automated storage and retrieval systems market is expected to grow at the fastest CAGR from 2025 to 2030. The growth can be attributed to the rapid growth of retail & e-commerce in the Asia Pacific countries such as

India and China

Contents

CHAPTER 1. METHODOLOGY AND SCOPE

- 1.1. Market Segmentation and Scope
- 1.2. Research Methodology
 - 1.2.1. Information Procurement
- 1.3. Information or Data Analysis
- 1.4. Methodology
- 1.5. Research Scope and Assumptions
- 1.6. Market Formulation & Validation
- 1.7. Country Based Segment Share Calculation
- 1.8. List of Data Sources

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. Market Outlook
- 2.2. Segment Outlook
- 2.3. Competitive Insights

CHAPTER 3. AUTOMATED STORAGE AND RETRIEVAL SYSTEMS MARKET VARIABLES, TRENDS, & SCOPE

- 3.1. Market Lineage Outlook
- 3.2. Market Dynamics
 - 3.2.1. Market Driver Analysis
 - 3.2.2. Market Restraint Analysis
 - 3.2.3. Industry Challenge
- 3.3. Automated Storage and Retrieval Systems Market Analysis Tools
 - 3.3.1. Industry Analysis - Porter's
 - 3.3.1.1. Bargaining power of the suppliers
 - 3.3.1.2. Bargaining power of the buyers
 - 3.3.1.3. Threats of substitution
 - 3.3.1.4. Threats from new entrants
 - 3.3.1.5. Competitive rivalry
 - 3.3.2. PESTEL Analysis
 - 3.3.2.1. Political landscape
 - 3.3.2.2. Economic and social landscape
 - 3.3.2.3. Technological landscape

CHAPTER 4. AUTOMATED STORAGE AND RETRIEVAL SYSTEMS MARKET TYPE OUTLOOK

4.1. Automated Storage and Retrieval Systems Market, By Type Analysis & Market Share, 2024 & 2030

4.2. Unit Load Cranes

4.2.1. Unit Load Cranes Automated Storage and Retrieval Systems market estimates and forecasts, 2017 - 2030 (USD Million)

4.3. Mini Load Cranes

4.3.1. Mini Load Cranes Automated Storage and Retrieval Systems market estimates and forecasts, 2017 - 2030 (USD Million)

4.4. Robotic Shuttle Based

4.4.1. Robotic Shuttle Based Automated Storage and Retrieval Systems market estimates and forecasts, 2017 - 2030 (USD Million)

4.5. Carousel Based

4.5.1. Carousel Based Automated Storage and Retrieval Systems market estimates and forecasts, 2017 - 2030 (USD Million)

4.6. Vertical Lift Module

4.6.1. Vertical Lift Module Automated Storage and Retrieval Systems market estimates and forecasts, 2017 - 2030 (USD Million)

4.7. Robotic Cube Based

4.7.1. Robotic Cube Based Automated Storage and Retrieval Systems market estimates and forecasts, 2017 - 2030 (USD Million)

CHAPTER 5. AUTOMATED STORAGE AND RETRIEVAL SYSTEMS MARKET FUNCTION OUTLOOK

5.1. Automated Storage and Retrieval Systems Market, By Function Analysis & Market Share, 2022 & 2030

5.2. Assembly

5.2.1. Assembly Automated Storage and Retrieval Systems market estimates and forecasts, 2017 - 2030 (USD Million)

5.3. Distribution

5.3.1. Distribution Automated Storage and Retrieval Systems market estimates and forecasts, 2017 - 2030 (USD Million)

5.4. Kitting

5.4.1. Kitting Automated Storage and Retrieval Systems market estimates and forecasts, 2017 - 2030 (USD Million)

5.5. Order Picking

5.5.1. Order Picking Automated Storage and Retrieval Systems market estimates and forecasts, 2017 - 2030 (USD Million)

5.6. Storage

5.6.1. Storage Automated Storage and Retrieval Systems market estimates and forecasts, 2017 - 2030 (USD Million)

5.7. Others

5.7.1. Others Automated Storage and Retrieval Systems market estimates and forecasts, 2017 - 2030 (USD Million)

CHAPTER 6. AUTOMATED STORAGE AND RETRIEVAL SYSTEMS MARKET VERTICAL OUTLOOK

6.1. Automated Storage and Retrieval Systems Market, By Vertical Analysis & Market Share, 2022 & 2030

6.2. Retail & E-commerce

6.2.1. Retail & E-commerce Automated Storage and Retrieval Systems market estimates and forecasts, 2017 - 2030 (USD Million)

6.3. Healthcare

6.3.1. Healthcare Automated Storage and Retrieval Systems market estimates and forecasts, 2017 - 2030 (USD Million)

6.4. Automotive

6.4.1. Automotive Automated Storage and Retrieval Systems market estimates and forecasts, 2017 - 2030 (USD Million)

6.5. Aerospace & Defense

6.5.1. Aerospace & Defense Automated Storage and Retrieval Systems market estimates and forecasts, 2017 - 2030 (USD Million)

6.6. Electronics & Semiconductor

6.6.1. Electronics & Semiconductor Automated Storage and Retrieval Systems market estimates and forecasts, 2017 - 2030 (USD Million)

6.7. Others

6.7.1. Others Automated Storage and Retrieval Systems market estimates and forecasts, 2017 - 2030 (USD Million)

CHAPTER 7. AUTOMATED STORAGE AND RETRIEVAL SYSTEMS MARKET: REGIONAL ESTIMATES & TREND ANALYSIS

7.1. Automated Storage and Retrieval Systems Market Share, By Region, 2024 & 2030, USD Million

7.2. North America

7.2.1. North America Automated Storage and Retrieval Systems Market Estimates and Forecasts, 2017 - 2030 (USD Million)

7.2.2. U.S.

7.2.2.1. U.S. Automated Storage and Retrieval Systems Market Estimates and Forecasts, 2017 - 2030 (USD Million)

7.2.3. Canada

7.2.3.1. Canada Automated Storage and Retrieval Systems Market Estimates and Forecasts, 2017 - 2030 (USD Million)

7.2.4. Mexico

7.2.4.1. Mexico Automated Storage and Retrieval Systems Market Estimates and Forecasts, 2017 - 2030 (USD Million)

7.3. Europe

7.3.1. Europe Automated Storage and Retrieval Systems Market Estimates and Forecasts, 2017 - 2030 (USD Million)

7.3.2. UK

7.3.2.1. UK Automated Storage and Retrieval Systems Market Estimates and Forecasts, 2017 - 2030 (USD Million)

7.3.3. Germany

7.3.3.1. Germany Automated Storage and Retrieval Systems Market Estimates and Forecasts, 2017 - 2030 (USD Million)

7.3.4. France

7.3.4.1. France Automated Storage and Retrieval Systems Market Estimates and Forecasts, 2017 - 2030 (USD Million)

7.4. Asia Pacific

7.4.1. Asia Pacific Automated Storage and Retrieval Systems Market Estimates and Forecasts, 2017 - 2030 (USD Million)

7.4.2. China

7.4.2.1. China Automated Storage and Retrieval Systems Market Estimates and Forecasts, 2017 - 2030 (USD Million)

7.4.3. Japan

7.4.3.1. Japan Automated Storage and Retrieval Systems Market Estimates and Forecasts, 2017 - 2030 (USD Million)

7.4.4. Australia

7.4.4.1. Australia Automated Storage and Retrieval Systems Market Estimates and Forecasts, 2017 - 2030 (USD Million)

7.4.5. South Korea

7.4.5.1. South Korea Automated Storage and Retrieval Systems Market Estimates and Forecasts, 2017 - 2030 (USD Million)

7.4.6. India

7.4.6.1. India Automated Storage and Retrieval Systems Market Estimates and Forecasts, 2017 - 2030 (USD Million)

7.5. Latin America

7.5.1. Latin America Automated Storage and Retrieval Systems Market Estimates and Forecasts, 2017 - 2030 (USD Million)

7.5.2. Brazil

7.5.2.1. Brazil Automated Storage and Retrieval Systems Market Estimates and Forecasts, 2017 - 2030 (USD Million)

7.6. Middle East and Africa

7.6.1. Middle East and Africa Automated Storage and Retrieval Systems Market Estimates and Forecasts, 2017 - 2030 (USD Million)

7.6.2. UAE

7.6.2.1. UAE Automated Storage and Retrieval Systems Market Estimates and Forecasts, 2017 - 2030 (USD Million)

7.6.3. Saudi Arabia

7.6.3.1. Saudi Arabia Automated Storage and Retrieval Systems Market Estimates and Forecasts, 2017 - 2030 (USD Million)

7.6.4. South Africa

7.6.4.1. South Africa Automated Storage and Retrieval Systems Market Estimates and Forecasts, 2017 - 2030 (USD Million)

CHAPTER 8. COMPETITIVE LANDSCAPE

8.1. Company Categorization

8.2. Company Market Positioning

8.3. Company Heat Map Analysis

8.4. Company Profiles/Listing

8.4.1. Dematic (KION GROUP AG)

8.4.1.1. Participant's Overview

8.4.1.2. Financial Performance

8.4.1.3. Product Benchmarking

8.4.1.4. Strategic Initiatives

8.4.2. Daifuku Co., Ltd.

8.4.2.1. Participant's Overview

8.4.2.2. Financial Performance

8.4.2.3. Product Benchmarking

8.4.2.4. Strategic Initiatives

8.4.3. Kardex

- 8.4.3.1. Participant's Overview
- 8.4.3.2. Financial Performance
- 8.4.3.3. Product Benchmarking
- 8.4.3.4. Strategic Initiatives
- 8.4.4. Murata Machinery, Ltd.
 - 8.4.4.1. Participant's Overview
 - 8.4.4.2. Financial Performance
 - 8.4.4.3. Product Benchmarking
 - 8.4.4.4. Strategic Initiatives
- 8.4.5. SSI SCHAEFER Group
 - 8.4.5.1. Participant's Overview
 - 8.4.5.2. Financial Performance
 - 8.4.5.3. Product Benchmarking
 - 8.4.5.4. Strategic Initiatives
- 8.4.6. TGW
 - 8.4.6.1. Participant's Overview
 - 8.4.6.2. Financial Performance
 - 8.4.6.3. Product Benchmarking
 - 8.4.6.4. Strategic Initiatives
- 8.4.7. Mecalux, S.A.
 - 8.4.7.1. Participant's Overview
 - 8.4.7.2. Financial Performance
 - 8.4.7.3. Product Benchmarking
 - 8.4.7.4. Strategic Initiatives
- 8.4.8. KNAPP AG
 - 8.4.8.1. Participant's Overview
 - 8.4.8.2. Financial Performance
 - 8.4.8.3. Product Benchmarking
 - 8.4.8.4. Strategic Initiatives
- 8.4.9. BEUMER Group
 - 8.4.9.1. Participant's Overview
 - 8.4.9.2. Financial Performance
 - 8.4.9.3. Product Benchmarking
 - 8.4.9.4. Strategic Initiatives
- 8.4.10. KUKA AG
 - 8.4.10.1. Participant's Overview
 - 8.4.10.2. Financial Performance
 - 8.4.10.3. Product Benchmarking
 - 8.4.10.4. Strategic Initiatives

8.4.11. Bastian Solutions, LLC

8.4.11.1. Participant's Overview

8.4.11.2. Financial Performance

8.4.11.3. Product Benchmarking

8.4.11.4. Strategic Initiatives

8.4.12. System Logistics S.p.A.

8.4.12.1. Participant's Overview

8.4.12.2. Financial Performance

8.4.12.3. Product Benchmarking

8.4.12.4. Strategic Initiatives

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