

Middle East & Africa AutoStore ASRS Market Size and Forecast (2021 - 2031)

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Abstracts

The AutoStore Automated Storage and Retrieval System (ASRS) market in the Middle East and Africa (MEA) is projected to grow significantly, reaching an estimated US\$ 52.9 million by 2031, up from US\$ 22.3 million in 2024. This growth reflects a compound annual growth rate (CAGR) of 13.4% from 2025 to 2031, driven by various factors influencing the logistics and warehousing sectors in the region.

Executive Summary and Market Analysis

Businesses in the MEA region are increasingly confronted with rising labor costs and workforce shortages, which are propelling the demand for efficient and automated warehousing solutions. The AutoStore ASRS is gaining traction across several industries, including pharmaceuticals, retail, food and beverage, and manufacturing. This system is recognized for its ability to enhance throughput, reduce errors, and bolster supply chain resilience.

In recent years, numerous organizations in Saudi Arabia and the UAE have implemented AutoStore's modular cube-based solutions to improve operational agility and align with national smart logistics initiatives and transformation goals. These implementations are particularly noteworthy due to their minimal infrastructure requirements, high scalability, and rapid return on investment, making AutoStore an attractive option for both established and emerging businesses. The UAE, in particular, shows strong growth potential, supported by favorable government policies and innovative economic zones.

Despite challenges such as high initial investments and complexities in system integration, ongoing government support and urbanization trends are accelerating the

adoption of AutoStore systems. The integration of robotics, artificial intelligence, and the Internet of Things (IoT) is crucial, providing enhanced system flexibility and operational intelligence for MEA businesses aiming to develop future-ready logistics infrastructures.

Overall, the trends of urbanization, evolving consumer expectations, and increased investments in automation position the MEA region as a significant player in the global ASRS landscape, with AutoStore at the forefront of the cube revolution in smart warehousing.

Market Segmentation Analysis

The Middle East and Africa 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. The Storage segment is expected to dominate 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, Pharmaceuticals, and Others. The E-commerce segment is anticipated to lead the market in 2024, reflecting the growing demand for efficient warehousing solutions in this sector.

Market Outlook

The AutoStore ASRS market is experiencing a shift towards more flexible and modular systems, particularly those based on robotic shuttles and cube-grid structures. These systems provide extremely high-density storage, making them ideal for environments where floor space is limited or costly. AutoStore's unique cube-based architecture allows bins to be stacked vertically and retrieved by robotic shuttles traversing the grid's surface. This design optimizes volume utilization and facilitates non-linear expansion, enabling businesses to scale operations without disrupting existing layouts.

Such systems are particularly favored in industries like e-commerce, retail, and micro-fulfillment, where rapid order processing and a diverse range of stock-keeping units (SKUs) are essential. Their adaptability to fluctuating demand, quick reconfiguration of layouts, and seamless integration with other automation systems make them future-proof solutions. The reduced dependence on fixed aisle systems also provides greater flexibility in warehouse design.

Robotic shuttle-based systems can achieve high throughput while operating within smaller footprints, which helps to lower energy consumption and reduce real estate costs. As global warehousing becomes increasingly constrained by space and as customer expectations for same-day fulfillment rise, the demand for compact and flexible ASRS solutions is expected to grow. Vendors that prioritize ease of installation, modularity, and scalability are likely to benefit from this trend.

Country Insights

The MEA AutoStore ASRS market is further segmented by country, including Saudi Arabia, the United Arab Emirates, South Africa, and the Rest of the Middle East and Africa. The UAE is projected to hold the largest market share in 2024.

With Dubai and Abu Dhabi emerging as regional trade and innovation hubs, the adoption of AutoStore automation in warehousing is becoming increasingly prevalent. For instance, in May 2025, Hellmann Worldwide Logistics, in collaboration with Dubai CommerCity, announced the deployment of robotics-based AutoStore systems at its e-commerce fulfillment center in the free zone. This initiative highlights the UAE's commitment to leveraging AutoStore technology to enhance e-commerce operations and improve supply chain efficiency.

The integration of AutoStore ASRS solutions in the UAE underscores the country's broader strategy to solidify its position as a leading logistics and e-commerce hub in the Middle East and beyond.

Company Profiles

Key players in the Middle East and Africa 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 products to consumers and enhance their market share.

Contents

1. INTRODUCTION

- 1.1 Report Guidance
- 1.2 Market Segmentation

2. EXECUTIVE SUMMARY

- 2.1 Key Insights
- 2.2 Market Attractiveness

3. RESEARCH METHODOLOGY

- 3.1 Secondary Research
- 3.2 Primary Research
 - 3.2.1 Hypothesis formulation:
 - 3.2.2 Macroeconomic factor analysis:
 - 3.2.3 Developing base number:
 - 3.2.4 Data Triangulation:
 - 3.2.5 Country-level data:

4. AUTOSTORE ASRS MARKET LANDSCAPE

- 4.1 Market Overview
- 4.2 PEST Analysis
- 4.3 Ecosystem Analysis
 - 4.3.1 Raw Material Suppliers
 - 4.3.2 Manufacturers
 - 4.3.3 Distributors or Suppliers
 - 4.3.4 End-Use Industry
 - 4.3.5 List of Vendors in the Value Chain

5. MIDDLE EAST AND AFRICA AUTOSTORE ASRS MARKET - KEY MARKET DYNAMICS

- 5.1 Market Drivers
- 5.2 Market Restraints
- 5.3 Market Opportunities

5.4 Future Trends

5.5 Impact of Drivers and Restraints:

6. AUTOSTORE ASRS MARKET - MIDDLE EAST AND AFRICA MARKET ANALYSIS

6.1 Middle East and Africa AutoStore ASRS Market Volume (Units), 2021 - 2031

6.2 Middle East and Africa AutoStore ASRS Market Volume Forecast and Analysis (Units)

6.3 Middle East and Africa AutoStore ASRS Market Revenue (US\$ Million), 2024 -2031

6.4 Middle East and Africa AutoStore ASRS Market Forecast and Analysis

7. MIDDLE EAST AND AFRICA AUTOSTORE ASRS MARKET REVENUE ANALYSIS - BY TYPE

7.1 Storage

7.1.1 Overview

7.1.2 Storage: Middle East and Africa AutoStore ASRS Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

7.2 Order Picking

7.2.1 Overview

7.2.2 Order Picking: Middle East and Africa AutoStore ASRS Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

7.3 Distribution

7.3.1 Overview

7.3.2 Distribution: Middle East and Africa AutoStore ASRS Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

7.4 Kitting

7.4.1 Overview

7.4.2 Kitting: Middle East and Africa AutoStore ASRS Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

7.5 Assembly

7.5.1 Overview

7.5.2 Assembly: Middle East and Africa AutoStore ASRS Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

7.6 Others

7.6.1 Overview

7.6.2 Others: Middle East and Africa AutoStore ASRS Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

8. MIDDLE EAST AND AFRICA AUTOSTORE ASRS MARKET REVENUE ANALYSIS - BY END USE INDUSTRY

8.1 Automotive

8.1.1 Overview

8.1.2 Automotive: Middle East and Africa AutoStore ASRS Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

8.2 Food and Beverage

8.2.1 Overview

8.2.2 Food and Beverage: Middle East and Africa AutoStore ASRS Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

8.3 Electronic and Semiconductors

8.3.1 Overview

8.3.2 Electronic and Semiconductors: Middle East and Africa AutoStore ASRS Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

8.4 E-commerce

8.4.1 Overview

8.4.2 E-commerce: Middle East and Africa AutoStore ASRS Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

8.5 Chemicals

8.5.1 Overview

8.5.2 Chemicals: Middle East and Africa AutoStore ASRS Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

8.6 Aerospace

8.6.1 Overview

8.6.2 Aerospace: Middle East and Africa AutoStore ASRS Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

8.7 Retail

8.7.1 Overview

8.7.2 Retail: Middle East and Africa AutoStore ASRS Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

8.8 Pharmaceutical

8.8.1 Overview

8.8.2 Pharmaceutical: Middle East and Africa AutoStore ASRS Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

8.9 Others

8.9.1 Overview

8.9.2 Others: Middle East and Africa AutoStore ASRS Market - Revenue and Forecast,

2021 - 2031 (US\$ Million)

9. MIDDLE EAST AND AFRICA AUTOSTORE ASRS MARKET - COUNTRY ANALYSIS

9.1 Middle East and Africa

9.1.1 Middle East and Africa AutoStore ASRS Market Revenue and Forecast and Analysis - by Country

9.1.1.1 Middle East and Africa AutoStore ASRS Market Volume and Forecast and Analysis - by Country

9.1.1.2 Middle East and Africa AutoStore ASRS Market Revenue and Forecast and Analysis - by Country

9.1.2.2 Saudi Arabia: Middle East and Africa AutoStore ASRS Market - Revenue, Volume, and Forecast, 2021 - 2031 (US\$ Million, Units)

9.1.2.2.1 Saudi Arabia: Middle East and Africa AutoStore ASRS Market Share - by Type

9.1.2.2.2 Saudi Arabia: Middle East and Africa AutoStore ASRS Market Share - by End Use Industry

9.2.3.3 United Arab Emirates: Middle East and Africa AutoStore ASRS Market - Revenue, Volume, and Forecast, 2021 - 2031 (US\$ Million, Units)

9.2.3.3.1 United Arab Emirates: Middle East and Africa AutoStore ASRS Market Share - by Type

9.2.3.3.2 United Arab Emirates: Middle East and Africa AutoStore ASRS Market Share - by End Use Industry

9.3.4.4 South Africa: Middle East and Africa AutoStore ASRS Market - Revenue, Volume, and Forecast, 2021 - 2031 (US\$ Million, Units)

9.3.4.4.1 South Africa: Middle East and Africa AutoStore ASRS Market Share - by Type

9.3.4.4.2 South Africa: Middle East and Africa AutoStore ASRS Market Share - by End Use Industry

9.4.5.5 Rest of Middle East and Africa: Middle East and Africa AutoStore ASRS Market - Revenue, Volume, and Forecast, 2021 - 2031 (US\$ Million, Units)

9.4.5.5.1 Rest of Middle East and Africa: Middle East and Africa AutoStore ASRS Market Share - by Type

9.4.5.5.2 Rest of Middle East and Africa: Middle East and Africa AutoStore ASRS Market Share - by End Use Industry

10 COMPETITIVE LANDSCAPE

- 10.1 Heat Map Analysis by Key Players
- 10.2 Company Market Share Analysis, 2024

11 INDUSTRY LANDSCAPE

- 11.1 Overview
- 11.2 New Product Development
- 11.3 Merger and Acquisition
- 11.4 Other Strategic Developments

12 COMPANY PROFILES

12.1 KNAPP AG

- 12.1.1 Key Facts
- 12.1.2 Business Description
- 12.1.3 Products and Services
- 12.1.4 Financial Overview
- 12.1.5 SWOT Analysis
- 12.1.6 Key Developments

12.2 Daifuku Co Ltd

- 12.2.1 Key Facts
- 12.2.2 Business Description
- 12.2.3 Products and Services
- 12.2.4 Financial Overview
- 12.2.5 SWOT Analysis
- 12.2.6 Key Developments

12.3 Swisslog Holding AG

- 12.3.1 Key Facts
- 12.3.2 Business Description
- 12.3.3 Products and Services
- 12.3.4 Financial Overview
- 12.3.5 SWOT Analysis
- 12.3.6 Key Developments

12.4 System Logistics SpA

- 12.4.1 Key Facts
- 12.4.2 Business Description
- 12.4.3 Products and Services
- 12.4.4 Financial Overview
- 12.4.5 SWOT Analysis

- 12.4.6 Key Developments
- 12.5 Kardex Holding AG
 - 12.5.1 Key Facts
 - 12.5.2 Business Description
 - 12.5.3 Products and Services
 - 12.5.4 Financial Overview
 - 12.5.5 SWOT Analysis
 - 12.5.6 Key Developments
- 12.6 Mecalux SA
 - 12.6.1 Key Facts
 - 12.6.2 Business Description
 - 12.6.3 Products and Services
 - 12.6.4 Financial Overview
 - 12.6.5 SWOT Analysis
 - 12.6.6 Key Developments
- 12.7 Vanderlande Industries BV
 - 12.7.1 Key Facts
 - 12.7.2 Business Description
 - 12.7.3 Products and Services
 - 12.7.4 Financial Overview
 - 12.7.5 SWOT Analysis
 - 12.7.6 Key Developments
- 12.8 Autocrib Inc
 - 12.8.1 Key Facts
 - 12.8.2 Business Description
 - 12.8.3 Products and Services
 - 12.8.4 Financial Overview
 - 12.8.5 SWOT Analysis
 - 12.8.6 Key Developments
- 12.9 SSI SCHAEFER Group
 - 12.9.1 Key Facts
 - 12.9.2 Business Description
 - 12.9.3 Products and Services
 - 12.9.4 Financial Overview
 - 12.9.5 SWOT Analysis
 - 12.9.6 Key Developments
- 12.10 Bastian Solutions LLC
 - 12.10.1 Key Facts
 - 12.10.2 Business Description

- 12.10.3 Products and Services
- 12.10.4 Financial Overview
- 12.10.5 SWOT Analysis
- 12.10.6 Key Developments
- 12.11 Exotec SAS
 - 12.11.1 Key Facts
 - 12.11.2 Business Description
 - 12.11.3 Products and Services
 - 12.11.4 Financial Overview
 - 12.11.5 SWOT Analysis
 - 12.11.6 Key Developments
- 12.12 Hai Robotics Co Ltd
 - 12.12.1 Key Facts
 - 12.12.2 Business Description
 - 12.12.3 Products and Services
 - 12.12.4 Financial Overview
 - 12.12.5 SWOT Analysis
 - 12.12.6 Key Developments
- 12.13 Modula GROUP
 - 12.13.1 Key Facts
 - 12.13.2 Business Description
 - 12.13.3 Products and Services
 - 12.13.4 Financial Overview
 - 12.13.5 SWOT Analysis
 - 12.13.6 Key Developments
- 12.14 H?nel GmbH & Co. KG
 - 12.14.1 Key Facts
 - 12.14.2 Business Description
 - 12.14.3 Products and Services
 - 12.14.4 Financial Overview
 - 12.14.5 SWOT Analysis
 - 12.14.6 Key Developments
- 12.15 Weland Solutions AB
 - 12.15.1 Key Facts
 - 12.15.2 Business Description
 - 12.15.3 Products and Services
 - 12.15.4 Financial Overview
 - 12.15.5 SWOT Analysis
 - 12.15.6 Key Developments

12.16 Beijing Geekplus Technology Co Ltd

12.16.1 Key Facts

12.16.2 Business Description

12.16.3 Products and Services

12.16.4 Financial Overview

12.16.5 SWOT Analysis

12.16.6 Key Developments

12.17 Ferretto Group SpA

12.17.1 Key Facts

12.17.2 Business Description

12.17.3 Products and Services

12.17.4 Financial Overview

12.17.5 SWOT Analysis

12.17.6 Key Developments

12.18 Craftsman Storage Systems

12.18.1 Key Facts

12.18.2 Business Description

12.18.3 Products and Services

12.18.4 Financial Overview

12.18.5 SWOT Analysis

12.18.6 Key Developments

12.19 Gonvarri Material Handling

12.19.1 Key Facts

12.19.2 Business Description

12.19.3 Products and Services

12.19.4 Financial Overview

12.19.5 SWOT Analysis

12.19.6 Key Developments

13. APPENDIX

13.1 About The Insight Partners

List Of Tables

LIST OF TABLES

Table 1. Middle East and Africa AutoStore ASRS Market Segmentation

Table 2. List of Vendors

Table 3. Middle East and Africa AutoStore ASRS Market - Volume and Forecast, 2021 - 2031 (Units)

Table 4. Middle East and Africa AutoStore ASRS Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Table 5. Middle East and Africa AutoStore ASRS Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Type

Table 6. Middle East and Africa AutoStore ASRS Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by End Use Industry

Table 7. Middle East and Africa AutoStore ASRS Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Country

Table 8. Saudi Arabia: Middle East and Africa AutoStore ASRS Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Type

Table 9. Saudi Arabia: Middle East and Africa AutoStore ASRS Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by End Use Industry

Table 10. United Arab Emirates: Middle East and Africa AutoStore ASRS Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Type

Table 11. United Arab Emirates: Middle East and Africa AutoStore ASRS Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by End Use Industry

Table 12. South Africa: Middle East and Africa AutoStore ASRS Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Type

Table 13. South Africa: Middle East and Africa AutoStore ASRS Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by End Use Industry

Table 14. Rest of Middle East and Africa: Middle East and Africa AutoStore ASRS Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Type

Table 15. Rest of Middle East and Africa: Middle East and Africa AutoStore ASRS Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by End Use Industry

Table 16. Heat Map Analysis by Key Players

List Of Figures

LIST OF FIGURES

Figure 1. Middle East and Africa AutoStore ASRS Market Segmentation - Country

Figure 2. PEST Analysis

Figure 3. Ecosystem: AutoStore ASRS Market

Figure 4. Middle East and Africa AutoStore ASRS Market - Key Market Dynamics

Figure 5. Impact Analysis of Drivers and Restraints

Figure 6. Middle East and Africa AutoStore ASRS Market Volume (Units), 2021 - 2031

Figure 7. Middle East and Africa AutoStore ASRS Market Revenue (US\$ Million), 2024 - 2031

Figure 8. Middle East and Africa AutoStore ASRS Market Share (%) - by Type, 2024 and 2031

Figure 9. Storage: Middle East and Africa AutoStore ASRS Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 10. Order Picking: Middle East and Africa AutoStore ASRS Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 11. Distribution: Middle East and Africa AutoStore ASRS Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 12. Kitting: Middle East and Africa AutoStore ASRS Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 13. Assembly: Middle East and Africa AutoStore ASRS Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 14. Others: Middle East and Africa AutoStore ASRS Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 15. Middle East and Africa AutoStore ASRS Market Share (%) - by End Use Industry, 2024 and 2031

Figure 16. Automotive: Middle East and Africa AutoStore ASRS Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 17. Food and Beverage: Middle East and Africa AutoStore ASRS Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 18. Electronic and Semiconductors: Middle East and Africa AutoStore ASRS Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 19. E-commerce: Middle East and Africa AutoStore ASRS Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 20. Chemicals: Middle East and Africa AutoStore ASRS Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 21. Aerospace: Middle East and Africa AutoStore ASRS Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 22. Retail: Middle East and Africa AutoStore ASRS Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 23. Pharmaceutical: Middle East and Africa AutoStore ASRS Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 24. Others: Middle East and Africa AutoStore ASRS Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 25. Middle East and Africa AutoStore ASRS Market Breakdown by Key Countries, 2024 and 2031 (%)

Figure 26. Saudi Arabia: Middle East and Africa AutoStore ASRS Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 27. United Arab Emirates: Middle East and Africa AutoStore ASRS Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 28. South Africa: Middle East and Africa AutoStore ASRS Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 29. Rest of Middle East and Africa: Middle East and Africa AutoStore ASRS Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 30. Company Market Share Analysis, 2024

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