

Automated Material Handling Systems Market by Type (ASRS, AGV, Robotic Systems), Component, Function (Assembly, Picking, Sorting), End-use Industry (Automotive, Healthcare, Semiconductor, Manufacturing, Retail, Aviation, Postal) - Global Forecast to 2030

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## **Abstracts**

The research report titled 'Automated Material Handling Systems Market by Type (ASRS, AGV, Robotic Systems), Component, Function (Assembly, Picking, Sorting), End-use Industry (Automotive, Healthcare, Semiconductor, Manufacturing, Retail, Aviation, Postal)—Global Forecast to 2030', provides in-depth analysis of microirrigation systems market across five major geographies and emphasizes on the current market trends, market sizes, market shares, recent developments, and forecasts till 2030.

The global automated material handling systems market is expected to reach \$70.1 billion by 2030, growing at a CAGR of 8.3% during the forecast period of 2023–2030.

The growth of the automated material handling systems market is mainly attributed to the growing importance of AMHS across the industry, enterprises' increasing focus on improving floor space utilization and order processing capabilities, and rising demand for warehouse automation. Although the high initial cost involved in deploying AMHS may hinder the growth of this market, the growing significance of online retail platforms and associated ted supply chains, increasing utilization of RFID and barcode technologies, integration of cloud and IoT technologies in AMHS, and the advent of industry 4.0 are expected to propel the growth of the automated material handling systems market in the coming years.



Expansion and automation of warehouses without hampering operations and cybersecurity risks are major challenges for the players operating in this market. In addition, the increasing adoption of Robots as a Service (RaaS) is a major trend in the automated material handling systems market.

Based on type, the automated material handling systems market is segmented into automated storage & retrieval systems, vehicle systems, conveyor & sortation systems, palletizing & depalletizing systems, and robotic systems. In 2023, the robotic systems segment accounted for the largest share of the global automated material handling systems market. The large share of this segment is mainly attributed to the growing adoption of automation in manufacturing, increasing use of robotic systems to handle hazardous or dangerous tasks, improved overall equipment effectiveness (OEE) and increased production output, and advancements in robotics technology. However, the vehicle systems segment is projected to register the highest CAGR over the forecast period.

Based on component, the automated material handling systems market is segmented into hardware, software, and services. In 2023, hardware accounted for the largest share of the global automated material handling systems market. The large share of this segment is mainly attributed to the rising demand for sensors and reliable performance controllers; rapidly increasing industrialization, and the growing need for industrial hardware components, such as programmable logic controllers (PLCs), robotics, sensors, and industrial networking equipment for smart manufacturing, and increasing need for robust hardware to support data storage, processing, and networking. However, the software segment is projected to register the highest CAGR over the forecast period.

Based on function, the automated material handling systems market is segmented into assembling, picking, sorting, packaging, shipping, receiving, and storing. In 2023, the picking segment accounted for the largest share of the global automated material handling systems market. The segment's large share can be attributed to the growing need to ensure accurate inventory tracking, efficient replenishment, and timely reordering to avoid stockouts and backorders, reduce the time taken to pick and pack items, enabling faster order processing and shipping, increasing the need to optimize the picking process and maximize overall throughput in warehouse and distribution center. This segment is also projected to record the highest CAGR during the forecast period.



Based on end-use industry, the automated material handling systems market is segmented into automotive, electronics & semiconductors, general manufacturing, retail & warehousing/logistics, aviation, chemicals, rubber, and plastics, healthcare & pharma, food & beverage, postal & parcel, and others. In 2023, the automotive segment accounted for the largest share of the global automated material handling systems market. The large share of this segment is mainly attributed to the increasing need to optimize material flow, reduce manual labor, and improve production efficiency, inventory management, and overall supply chain efficiency, a growing need to automate material handling tasks for smooth production flow and minimal inventory buildup. However, the healthcare & pharma segment is projected to register the highest CAGR over the forecast period.

Based on geography, the automated material handling systems market is segmented into North America, Asia-Pacific, Europe, Latin America, and the Middle East & Africa. In 2022, the Asia-Pacific region is expected to account for the largest share of the automated material handling systems market. The region is also expected to witness rapid growth during the forecast period. The large market share of Asia-Pacific is mainly attributed to the increasing investments in several innovative technologies, consistent technological advancements, the growing need to enhance manufacturing competitiveness and productivity, increasing emphasis on robotics and automation, and growth in the e-commerce sector.

The key players operating in the global automated material handling systems market are Daifuku Co., Ltd. (Japan), SSI SCH?FER AG (Germany), Dematic Corp. (U.S.) (a part of KION GROUP AG), Honeywell International Inc. (U.S.), Toyota Industries Corporation (Japan), Murata Machinery, Ltd. (Japan), KNAPP AG (Austria), BEUMER Group GmbH & Co. KG (Germany), Swisslog Holding AG (Switzerland) (a part of KUKA AG), TGW Logistics Group GmbH (Austria), WITRON Service GmbH & Co. KG (Germany), Kardex Holding AG (Switzerland), E80 GROUP S.P.A. (Italy), System Logistics S.p.A. (Italy) (a part of Krones AG), DMW&H (U.S.), viastore SYSTEMS GmbH (Germany), L?dige Industries GmbH (Germany), St?cklin Logistik AG (Switzerland), Jungheinrich AG (Germany), and Mobile Industrial Robots A/S (Denmark).

Key questions answered in the report:

Which are the high-growth market segments in terms of type, component, function, end-use industry, and countries?



What is the historical market for automated material handling systems across the globe?

What are the market forecasts and estimates from 2023-2030?

What are the major drivers, restraints, and opportunities in the global automated material handling systems market?

Who are the major players in the global automated material handling systems market, and what shares of the market do they hold?

Who are the major players in various countries, and what market shares do they hold?

How is the competitive landscape?

What are the recent developments in the global automated material handling systems market?

What strategies are adopted by the major players in the global automated material handling systems market?

What are the geographical trends and high-growth countries?

Who are the local emerging players in the global automated material handling systems market, and how do they compete with the other players?

Scope of the report:

Automated Material Handling Systems Market Assessment—by Type

Automated Storage & Retrieval Systems

Unit Load AS/RS

Fixed-Aisle ASRS

Movable-Aisle ASRS

Automated Material Handling Systems Market by Type (ASRS, AGV, Robotic Systems), Component, Function (Assembly...



Mini-load ASRS

Multi-shuttle Load

Vertical Lift Modules (VLM)

Carousels

Horizontal Carousels

Vertical Carousels

Micro-load ASRS

Vehicle Systems

Automated Guided Vehicles (AGV)

Laser-guided Vehicles

Magnet-guided Vehicles

Vision-guided Vehicles

Inductive-guided Vehicles

Other Guided Vehicles

Rail-guided Vehicles (RGV)

Conveyor & Sortation Systems

**Conveyor Systems** 

**Belt Systems** 

**Roller Systems** 



Pallet Systems

**Overhead Systems** 

Other Conveyor Systems

Sortation Systems

Palletizing & Depalletizing Systems

Robotic Systems

Automated Material Handling Systems Market Assessment—by Component

Hardware

Software

Services

Automated Material Handling Systems Market Assessment—by Function

Assembly

Picking

Sorting

Packaging

Shipping

Receiving

Storing



#### Automated Material Handling Systems Market Assessment—by End-use Industry

Automotive

**Electronics & Semiconductors** 

Retail & Warehousing/Logistics

**General Manufacturing** 

Aviation

Chemical, Rubber, and Plastic

Healthcare & Pharma

Food & Beverage

Postal & Parcel

Other End-use Industries

Automated Material Handling Systems Market Assessment—by Geography

North America

U.S.

Canada

Europe

Germany

U.K.

France



Italy

Spain

Netherlands

Switzerland

Poland

Rest of Europe

Asia-Pacific

Japan

China

India

Indonesia

South Korea

Malaysia

**Rest of Asia-Pacific** 

Latin America

Brazil

Mexico

Argentina

**Rest of Latin America** 

Middle East & Africa



UAE

Saudi Arabia

Israel

Rest of Middle East & Africa



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