

Automated Material Handling Equipment Market by Product (Autonomous Mobile Robots, Cobot Palletizers, Automated Storage & Retrieval Systems, Conveyors Systems, Warehouse Management System, Automated Guided Vehicles), Region - Global Forecast to 2029

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Abstracts

The global Automated Material Handling Equipment market size is anticipated to grow from USD 33.3 billion in 2024 to USD 51.0 billion by 2029, at a CAGR of 8.9% from 2024 to 2029. The e-commerce industry is booming due to a surge in online shoppers, driving both B2C and B2B sales. To meet the escalating demand and ensure timely delivery, e-commerce companies are turning to automation, particularly ASRS systems. These systems streamline order processing by automatically bringing products to operators, enhancing efficiency, and managing diverse product SKUs. ASRS technology optimizes inventory management, improves order accuracy, and speeds up fulfillment, aided by advancements such as AI integration. This automation reduces errors, maximizes warehouse space, and boosts customer satisfaction, fueling the growth of the ASRS market in e-commerce.

“ASRS to account for the largest share of the Automated Material Handling market in 2024.”

Automated Storage and Retrieval Systems (ASRS) are projected to dominate the automated material handling market, claiming the largest share. ASRS technologies revolutionize warehouse operations by automating the storage and retrieval of goods, utilizing advanced robotics, conveyors, and software. Their ability to efficiently manage diverse product SKUs and lead times makes them indispensable in meeting the

increasing demands of various industries, particularly e-commerce, manufacturing, and logistics. ASRS solutions streamline order processing, enhance inventory management, and ensure precise order fulfillment, thereby driving their widespread adoption and market dominance. Continuous advancements, such as the integration of AI and machine learning algorithms, ASRS systems are expected to further solidify their position as the leading solution for automated material handling in 2023 and beyond.

“Third Party logistics (3PL) is expected to grow at the highest CAGR in the Automated Material Handling market during 2024-2029.”

During the forecast period from 2024 to 2029, the Third-Party Logistics (3PL) segment is expected to undergo the highest CAGR. These 3PL providers play a significant role in driving advancements in the Automated Material Handling Equipment (AMHE) market by leveraging technologies to optimize supply chain operations. Businesses are increasingly turning to 3PL providers to outsource their logistics functions, allowing them to concentrate on core competencies while benefiting from the specialized expertise and resources provided by these companies.

3PL firms manage warehouses equipped with advanced technologies such as Automated Storage and Retrieval Systems (ASRS), conveyor systems, and robotic pickers, facilitating efficient handling of goods, optimizing space utilization, and reducing labor costs. 3PL companies offer value-added services like kitting, labeling, packaging, and assembly, leveraging AMHE technologies to deliver customized solutions tailored to meet the unique requirements of each client. Consequently, 3PL providers are poised for robust growth in the Automated Material Handling Equipment market as they continue expanding their service offerings and adapting to the evolving needs of the industry.

“Asia Pacific is expected to grow at the highest CAGR in the the Automated Material Handling market market during 2024-2029.”

The Asia Pacific region is expected to lead in the Automated Material Handling Equipment market with the highest CAGR, propelled by several key factors. Rapid industrialization and urban expansion in the region are creating a demand for efficient material handling solutions to support the expanding manufacturing and logistics sectors. The booming e-commerce industry in Asia Pacific, driven by a growing middle class and increasing internet connectivity, is fueling the need for advanced AMHE technologies to meet the escalating demands of online retail. Governments in China,

India, and Japan are actively promoting automation and Industry 4.0 initiatives to enhance productivity and competitiveness in manufacturing and logistics. This involves offering incentives for the adoption of AMHE solutions such as Automated Guided Vehicles (AGVs), Automated Storage and Retrieval Systems (ASRS), and robotics. Economic growth and substantial investments in infrastructure projects, including the development of smart cities and logistics hubs, are accelerating the adoption of AMHE technologies to improve efficiency and optimize supply chain operations. With numerous manufacturing facilities and distribution centers in industries like automotive, electronics, and consumer goods, the increasing adoption of automation is expected to drive significant growth in the Asia Pacific AMHE market in the foreseeable future.

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 RoW – 10%

Key players profiled in this report

Daifuku Co, Ltd. (Japan), KION GROUP AG (Germany), SSI SCHAEFER (Germany), TOYOTA INDUSTRIES CORPORATION (Japan) and HONEYWELL INTERNATIONAL INC. (US) are the key players in the Automated

Material Handling Equipment market. These leading companies possess a robust portfolio of products and services, establishing a strong presence in established and emerging markets. The study provides a comprehensive competitive analysis of these key players in the Automated

Material Handling Equipment market, presenting their company profiles, recent developments, and key market strategies.

Research Coverage

This report offers detailed insights into the Automated Material Handling Equipment market based on Product (Robot, ASRS, Conveyor & Sortation systems, Crane, AGV,

WMS, RLTS), Industry (Automotive, Chemical, Aviation, Semiconductor & Electronics, E-Commerce, Food & Beverage, Healthcare, Medical Devices, Pharmaceuticals, Metals & Heavy Machinery, 3PL), System type (Unit Load, Bulk Load), and Region (North America, Europe, Asia Pacific, and Rest of the World which includes the South America, Middle East and Africa and Africa).

The report also comprehensively reviews the Automated Material Handling Equipment market drivers, restraints, opportunities, and challenges. The report also covers qualitative aspects in addition to the quantitative aspects of these markets.

Reasons to buy the report:

The report will help the leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall market and the sub-segments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the Automated Material Handling Equipment market's pulse and provides information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

Analysis of key drivers (Increasing penetration of automated storage and retrieval systems into e-commerce industry, Increasing number of startups offering robotic solutions for warehouse automation, Rising demand for automated material handling equipment (AMHE) in various industries, High labor costs and safety concerns, Paradigm shift toward mass customization from mass production, Demand for lean manufacturing and Just-In-Time (JIT) practises), restraints (Requirement for high capital by small and medium-sized enterprises (SMEs) to deploy automated material handling equipment, High integration and switching costs, Inadequate technical expertise to manage system operations, Integration complexities), opportunities (Growing extent of order customization and personalization,

Industry 4.0 integration with automated material handling equipment, Substantial industrial growth in emerging economies, Expanding intralogistics sector in Southeast Asia, Potential growth prospects in healthcare industry, Integration with IoT and data analytics) and challenges (Production and revenue losses attributed to unwanted

equipment downtime, Technical challenges related to sensing elements, Development of flexible and scalable automated material equipment with constant technological advancements).

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product launches in the Automated Material Handling Equipment market .

Market Development: Comprehensive information about lucrative markets – the report analyses the Automated Material Handling Equipment market across varied regions

Market Diversification: Exhaustive information about new products, untapped geographies, recent developments, and investments in the Automated Material Handling Equipment market .

Competitive Assessment: In-depth assessment of market shares, growth strategies, and product offerings of leading players like Daifuku Co, Ltd. (Japan), KION GROUP AG (Germany), SSI SCHAEFER (Germany), TOYOTA INDUSTRIES CORPORATION (Japan) and HONEYWELL INTERNATIONAL INC. (US) are the key players in the Automated Material Handling Equipment market among others.

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16.2 KNOWLEDGESTORE: MARKETSDANDMARKETS' SUBSCRIPTION PORTAL

16.3 CUSTOMIZATION OPTIONS

16.4 RELATED REPORTS

16.5 AUTHOR DETAILS

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