

Automated Material Handling Equipment Market by Product (Industrial Robots, Autonomous Mobile Robots, Automated Guided Vehicles, Automated Storage & Retrieval Systems (ASRS), Cranes, Conveyors & Sortation Systems, WMS) Region - Global Forecast to 2030

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Report description:

With a CAGR of 8.9%, the global automated material handling equipment (AMHE) market is projected to expand from USD 33.39 billion in 2025 to USD 51.22 billion by 2030. Increasing reliance on robotics and automation in manufacturing plants and distribution networks is emerging as a primary growth driver, as organizations look to enhance productivity, reduce downtime, and address skilled labor shortages. Automated guided vehicles, industrial robots, and advanced conveyor systems are being widely deployed to streamline production workflows, enable continuous operations, and ensure precision in material flow. In industries such as automotive, semiconductors, and healthcare, AMHE is playing a critical role in meeting stringent quality requirements while supporting large scale, complex production cycles. The market is further supported by the integration of artificial intelligence, machine vision, and IoT-enabled platforms, which are improving operational visibility, predictive maintenance, and system adaptability. Investments in modular and scalable system designs are also enabling businesses to respond quickly to fluctuations in demand, while the adoption of energy efficient and digitalized solutions is helping reduce environmental impact. As industries prioritize resilience, flexibility, and sustainability in their operations, AMHE is increasingly positioned as a key enabler of next generation supply chain and smart factory ecosystems, ensuring sustained growth across global markets.

<https://mnmimg.marketsandmarkets.com/Images/automated-material-handling-manufacturing-market-img-overview.svg>

" Warehouse Management Systems to Witness Accelerated Growth Driven by Digitalization and Real-Time Supply Chain Visibility."

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The warehouse management system (WMS) segment is expected to record the highest CAGR during the forecast period, driven by the growing demand for intelligent software solutions that provide real-time inventory tracking, order accuracy, and workflow optimization. As supply chains become increasingly complex and delivery timelines shorten, WMS is being adopted to improve warehouse efficiency, enhance space utilization, and integrate seamlessly with automation technologies such as automated storage and retrieval systems (ASRS), conveyors, and autonomous mobile robots (AMRs). The shift toward cloud based platforms and AI-enabled WMS is further accelerating adoption, offering predictive analytics, scalability, and reduced IT costs. With advancements in IoT connectivity, machine learning, and data-driven decision-making, WMS is emerging as a critical enabler of smart warehouses and resilient supply chains. As industries prioritize digital transformation, cost efficiency, and operational agility, the WMS segment is set to achieve the strongest growth trajectory in the AMHE market.

" Third-Party Logistics (3PL) to Witness Strong Growth Driven by Outsourced Warehousing and Supply Chain Automation. "

The 3PL industry is expected to record the highest growth rate in the automated material handling equipment (AMHE) market during the forecast period, fuelled by the growing reliance of companies on outsourced warehousing and logistics services to manage rising trade volumes and dynamic customer demands. With the rapid expansion of global supply chains and the increasing complexity of distribution networks, 3PL providers are deploying advanced automation solutions such as automated storage and retrieval systems (ASRS), conveyors, warehouse management systems (WMS), and autonomous mobile robots (AMRs) to enhance throughput, reduce errors, and improve service quality. The shift toward flexible, scalable, and technology-enabled logistics models is further accelerating adoption, as 3PLs seek to offer faster delivery, real time visibility, and cost efficient operations. Supported by investments in digital platforms, robotics, and IoT-driven analytics, the 3PL industry is emerging as a leading adopter of AMHE, positioning itself as a critical growth driver in the evolving logistics and supply chain landscape.

" Asia Pacific to Witness the Highest Growth Driven by Rapid Industrialization and Expanding Logistics Infrastructure. "

The Asia Pacific region is expected to grow with the highest CAGR in the automated material handling equipment (AMHE) market during the forecast period, supported by rapid industrialization, strong growth in manufacturing output, and large-scale investments in logistics infrastructure. Countries such as China, Japan, South Korea, and India are accelerating adoption of automation technologies to enhance productivity, meet rising consumer demand, and strengthen global supply chain integration. The expansion of industrial facilities, coupled with the establishment of large e-commerce fulfilment centres and modern warehouses, is creating significant opportunities for AMHE solutions including automated storage and retrieval systems, conveyors, warehouse management systems, and robotics. Government led initiatives promoting smart manufacturing and Industry 4.0 adoption are further driving deployment, alongside increased investments from global and regional players in advanced automation technologies. With its growing role as both a manufacturing hub and a key consumer market, Asia Pacific is poised to lead AMHE market expansion with the strongest growth trajectory during the forecast period.

Breakdown of primaries

A variety of executives from key organizations operating in the automated material handling equipment market were interviewed in-depth, including CEOs, marketing directors, and innovation and technology directors.□

-□By Company Type: Tier 1 -45%, Tier 2 - 35%, and Tier 3 - 20%

-□By Designation: Directors - 45%, C-level - 30%, and Others - 25%

-□By Region: Asia Pacific - 45%, North America - 25%, Europe - 20%, and RoW - 10%

Note: Other designations include sales and product managers. The 3 tiers of companies have been defined based on their total revenue as of 2024; Tier 1: revenue greater than USD 1 billion, Tier 2: revenue between USD 500 million and USD 1 billion, and Tier 3: revenue less than USD 500 million.

Major players profiled in this report are as follows: Daifuku Co., Ltd. (Japan), KION GROUP AG (Germany), SSI SCHAEFER (Germany), Toyota Industries Corporation (Japan), Honeywell International Inc. (US), Hyster-Yale Materials Handling, Inc., (US), Jungheinrich AG (Germany), Hanwha Robotics CO.LTD. (South Korea), JBT (US), KUKA AG (Germany), BEUMER Group (Germany),

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KNAPP AG (Austria), MURATA MACHINERY, LTD. (Japan), TGW Logistics (Austria), Manhattan Associates (US), Oracle (US), Addverb Technologies Limited (India), Snap-on AutoCrib (US), AVANCON SA (Switzerland), Ferretto SpA (Italy), Grabit (US), inVia Robotics, Inc. (US), Locus Robotics (US), MEIDENSHA CORPORATION (Japan), Mobile Industrial Robots (Denmark) and Westfalia Technologies, Inc. (US). These leading companies possess a wide portfolio of products, establishing a prominent presence in established as well as emerging markets.

The study provides a detailed competitive analysis of these key players in the automated material handling equipment market, presenting their company profiles, most recent developments, and key market strategies.

Research Coverage

In this report, the automated material handling equipment market has been segmented based on product type, industry, and region. The product type segment includes Industrial Robots, Automated Guided Vehicles (AGVs), Automated Storage & Retrieval Systems (ASRS), Cranes, Conveyors & Sortation Systems and Warehouse Management System (WMS). Based on industries, the market is segmented into Automotive, Chemicals, Aviation, Semiconductor & Electronics, E-commerce, Food & Beverages, Healthcare, Metal & Heavy Machinery, 3PL and Other Industries (Paper, Printing, Textile, Clothing). The regional analysis covers North America, Europe, Asia Pacific, and Rest of the World (RoW).

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.

Key Benefits of Buying the Report

□ Analysis of key drivers (rapid expansion of e-commerce industry driving AMHE adoption, mounting demand for real-time inventory management systems in distribution centers, rising emphasis on efficient space utilization in warehouses, growing adoption of mass customization driving demand for automated material handling systems, rise of mobile robotics startups driven by demand for warehouse automation, demand for lean manufacturing and just-in-time (JIT) practices, rising adoption of cloud-based solutions in AMHE), restraints (risks of data security and cyber threats, high installation and switching costs, issues with infrastructure compatibility in developing countries, shortage of skilled workforce), opportunities (embedding video AI technology into WMS, rapidly growing intralogistics sector in Southeast Asia, rising need for efficient last-mile delivery solutions, Expanding adoption of smart factories and Industry 4.0 fueling AMHE demand, growing order customization and personalization, rising demand for automated material handling solutions in the healthcare sector), and challenges (overcoming data integration and system compatibility challenges in AMHE, mitigating production and revenue losses from equipment downtime, extended ROI timelines for small-scale warehouses) influencing the growth of the automated material handling equipment market.

□ Product Development/Innovation: Detailed insights on upcoming technologies, research and 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/services, untapped geographies, recent developments, and investments in the automated material handling equipment market.

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- Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players like Daifuku Co., Ltd. (Japan), KION GROUP AG (Germany), SSI SCHAEFFER (Germany), Toyota Industries Corporation (Japan), Honeywell International Inc. (US). and others.

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