Asia Pacific Warehouse Automation - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts 2019 - 2029

Market Report | 2024-02-17 | 90 pages | Mordor Intelligence

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Report description:

The Asia Pacific Warehouse Automation Market size is estimated at USD 12.62 billion in 2024, and is expected to reach USD 28.02 billion by 2029, growing at a CAGR of 17.30% during the forecast period (2024-2029).

The COVID-19 pandemic, which wreaked havoc on major economies such as China, Japan, and India, is predicted to impact future market growth. Significant investments are influencing the rise of roller conveyors in the Asia-Pacific in the e-commerce industry and demand from ever-increasing internet-enabled consumers.

Furthermore, with large investments in the industry, the manufacturing sector is predicted to account for a significant market share and become one of the country's major contributors. The requirement to deliver varied products in short durations has grown, necessitating efficient inventory management and reverse logistics systems.

Key Highlights
-The expansion of the Asia-Pacific warehouse automation market is examined by looking at India, China, Australia, South Korea, Japan, and the rest of Asia. China, one of the world's major economies, is continually creating and deploying warehouse robots. China is expected to have a significant share in the market. As a result of the high automation rates, the presence of prominent vendors, and the widespread availability of warehouse robots, China's demand for warehouse robotics is significant.
-Due to the rise of the manufacturing, retail, and FMCG industries, there is an ever-increasing demand for industrial automation solutions across the APAC region. Shuttle retrieval systems, as well as automated storage and mobile robot platforms, are seeing a significant increase. Industrial and freight routes are sprouting up throughout the region, increasing the number of organized participants in the storage and industrial parks.
-Moreover, According to a 2022 study on warehouse vision conducted by Zebra Technologies, For the survey, more than 1,500

warehouse decision-makers and colleagues were polled from Australia, China, India, Japan, and Singapore. According to the survey, 27% of warehouse operators worldwide, including those in APAC, have already employed autonomous mobile robots (AMR). This ratio is expected to climb to 92% in APAC and 90% internationally in the next five years.
-While most warehouses will employ AMRs for P2G picking, material movements, and other automated inventory moves, more will invest in software that automates analytics and decision-making. In APAC, 95% of decision-makers expressed willingness to invest in such software to improve worker effectiveness and efficiency while lowering labor costs, slightly exceeding the global average (94%).
-Additionally, companies in the region are hurrying to adopt warehouse automation across the region in the wake of the COVID-19 outbreak. According to Mobile Industrial Robots in Shanghai, China, the company's autonomous robots that can transport pallets and large loads around warehouses and factories have seen growing demand across a wide range of industries. Airbus, Flex, Honeywell, and DHL are the major firms responsible for the rising demand.

APAC Warehouse Automation Market Trends

Automated Guided Vehicles (AGVs) is Expected to Have a Significant Growth

- The major application of mobile robots is in mobile automated guided vehicles (AGVs) that transfer items across APAC in warehouses and storage facilities. These robots follow pre-programmed paths, transporting things for transportation and storage 24 hours a day, seven days a week. AGVs are vital for lowering logistical costs and streamlining the supply chain.
- In addition to replenishing and picking, AGVs are used in inbound and outbound handling. AGVs, for instance, are used to move inventory from receipt to storage or from long-term storage to forward-picking locations to restock stock. Moving inventory from long-term storage to forward-picking locations guarantees enough inventory is available to selectors, resulting in a more effective order-picking process.
- The APAC warehouse landscape is evolving, with more automation and manual labor optimization used to cut costs and boost profits. Workers in a warehouse should spend their human intelligence on more value-adding activities while the robots step in and take care of efficiency mapping and waste reduction to produce a smooth flow.
- For instance, GreyOrange announced patents in September 2020 for technology critical for businesses to achieve high-yield omnichannel fulfillment and maximize facility space utilization through multilayer operation capabilities. First-to-Fill Technology, Retail-Ready Fulfilment, and Multilevel Robot Mobility are all covered by the patents.
- Robotics has become crucial to the profitability of several end users. The AMRs are leading the way since they are critical for quick, secure, and error-free delivery, a quick time to market, lower costs, and end-to-end trackability. The degree of autonomy distinguishes autonomous mobile robots (AMRs) from autonomous ground vehicles (AGVs).
- DHL established the Asia Pacific Innovation Center in Singapore in October 2021 as a showcase for new displays showcasing a cutting-edge, automated, and fully integrated e-commerce system. Geek+ announced a relationship with DHL to exhibit some of the company's greatest inventions at the Asia Pacific Innovation Center. Geek+ and DHL will demonstrate the future of warehouse robot automation.

India is Expected To Witness High Growth In The Asia-Pacific Warehouse Automation Market

- The warehousing industry in India is undergoing a considerable transformation to keep pace with the country's growing manufacturing sector and massive logistics industry. The warehouse industry is expected to benefit significantly from adopting the goods and services tax and real estate investments. Instead of the current scattered and standalone facilities, GST would ensure that India sees a vast, consolidated area with central warehousing parks for the first time.

- Furthermore, India's adoption of e-commerce has resulted in a tremendous increase in business for the warehousing industry. This rapid expansion has brought with it a slew of new obstacles. Transportation delays, a shortage of experienced labor, and other factors prompted stakeholders to look beyond traditional tactics in favor of robotics-enabled automation systems.
- For instance, e-commerce giant Amazon, which plans to invest USD 5.0 billion in India, is focusing on automated warehouses around the country. It opened several new warehouses to serve a variety of customers. Amazon was one of the first few Indian corporations to experiment with and implement robotics in its warehouses.
- Also, India's warehouse landscape is evolving, with more automation and manual labor optimization used to save costs and boost profits. Workers in a warehouse should spend their human intelligence on more value-adding activities while the robots step in and take care of efficiency mapping and waste reduction to produce a smooth flow. Robotics has become crucial to multiple end users' profitability.
- Atmos Systems, India, a prominent name in warehouse automation, announced the Atmos A42N, an autonomous case handling robotic (ACR) system that can greatly improve a warehouse's inbound and outgoing efficiency in December 2021. The system is packed with user-friendly features, allowing greater warehouse location flexibility.

APAC Warehouse Automation Industry Overview

The APAC warehouse automation market is moderately competitive and fragmented, with many global and regional players holding significant market shares. To maintain their market share, corporations will continue to innovate and form strategic collaborations. ST Engineering, Toshiba Global, Yaskawa Electric Corporation (Yaskawa Motoman), Daifuku Co., Ltd., Grey Orange, Godrej Consoveyo Logistics Automation Ltd. (GCLA), and others are some of the prominent players in this market.

- May 2022 - SYNUS Tech, a logistics automation firm, and Attabotics, the first 3D robotics supply chain system for modern commerce, established an exclusive cooperation today to provide integrated logistics system warehousing solutions to the South Korean markets. SYNUS Tech is developing smart industrial solutions and integrating AI into warehouses for the first time in Korea, thanks to partners like Attabotics.
- February 2022 - Addverb Technologies, India is pushing its warehouse robotics product suite to the North American market after acquiring USD 132.0 million. With its fleet of automated robots, material handling technology, system integration services, and software solutions, Addverb will help improve the performance and precision of warehouse and industrial operations.
- August 2020 - Murata Machinery has agreed to build Japan's first 3D robot warehousing system, "ALPHABOT," in collaboration with Alpen Co. Ltd. ALPHABOT will be installed at the Alpen Komaki Distribution Center, one of Alpen Group's key distribution centers, to increase storage capacity and cut picking, sorting, and packaging procedures by about 60%. The system was started in July 2021.

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

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