

Warehouse Automation Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028F Segmented By Product (Hardware, Software, Service), By Automation Level (System Automation, Mechanized Automation, Semi-Automated, Fully Automated), By Technology (Automated Storage And Retrieval Systems (AS/RS), Autonomous Mobile Robots (AMRs), Automatic Guided Vehicles (AGVs), MRO Outbounds, Automatic Identification And Data Capture And Others), By Application (Automotive, Food and Beverage, E-Commerce, Pharmaceutical, Others), By Vertical (Retailers, Manufacturers and Distributors), By Region, Competition

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Abstracts

Global Warehouse Automation market is predicted to proliferate during the forecast period due to the rapid growth of the E-commerce industry. Warehouse automation is the process of automating inventory movement into, within, and out of warehouses to customers with the least amount of human intervention. During an automation project, a company can get rid of labour-intensive tasks that need repeated physical labour, manual data input, and analysis. In addition, to avoid manual operations and expedite order selection procedures, warehouses deploy highly automated technology for more complicated products handling flows, comprising conveyors, automatic sorters, AGVs (Automated Guided Vehicles), a robotic picking system, and automatic palletizers. The companies are progressively using this technology to reduce handling and storage



costs, human error, enhanced data accuracy and analysis, reduced stockout events, improved customer service and order fulfilment accuracy. Numerous innovations are carried out in empowering the modern warehouse with automation technology such as cobotics, warehouse drones, mobile shelving. Furthermore wireless fleet management and supply chain as a service are helping service providers to offer an effective solution to the enterprises that are enhancing the features of warehouse automation.

Automation does also play a great role in enterprise solutions for streamlining business operations, maximizes workforce capacity and efficiency, eliminates errors, improves technology investments and hyperautomates digital workflows. The software helps organizations on their digital transformation journeys, using bots to automate tasks and offering benefits that include better customer service, completing processes more rapidly, compliance with regulations and standards, cost saving and emphasizing on enhancing the productivity of employees. Automation applications such as automation 360, Blue Prism Intelligent Automation Platform, Kofax RPA, UiPath Platform, etc., are enabling businesses to automate more sophisticated, less rule-based operations. The technology is gaining traction due to its costs cutting, processes streamlining, and user experiences improvement capabilities.

The warehouse automation market has witnessed significant growth in the last few years. The increase in the need for greater efficiencies to processes in fulfilment, inventory, and distribution, increasing accuracy and quality of the review, reducing the operational cost by integrating to the warehouse automation system and the growth in consumer demand for self-service operations have led to increase in product demand. This can be attributed to the developments in computing, machine learning and artificial intelligence that have ushered in an era for automation in warehousing operability in the organization as the number of automations has grown higher in the recent years. Moreover, growing autonomous drones for warehouse management simplifies intralogistics and automatically checking inventories processes are also expected to witness significant demand in the future. Furthermore, warehouse automation is gaining popularity as businesses are facilitating the use of robotics in warehousing while ensuring less human interaction and more automated operations. Automation in warehouse also provides dependability and durability in challenging situations. Therefore, the use of automation in warehouses are enabling organizations to deliver timely services at reduced costs.

Increasing Growth of the E-Commerce Industry



The growth and popularity of ecommerce has sparked the demand for warehouse automation. The spark has ignited the e-commerce service providers and operators for adopting various technologies such as automation and robotics in the warehouses. Automated Storage and Retrieval Systems (AS/RS), Automatic Guided Vehicles (AGVs), Autonomous Mobile Robots (AMRs), Goods-to-Person (GTP) systems and many more, have been accepted as a necessary automation solution by several global enterprises. The market is expanding globally as a result of numerous firms employing this warehouse automation technique to make the entire process more efficient and cost effective. For instance, according to Comscore, global leader in media measurement digital e-commerce market in 2022 had hit around USD 1.09 trillion in the United States. This warehouse management system can be helpful for improving the accuracy of inventory by tracking turnover rates and prevent defective or lost items. Thus, increasing growth of the E-Commerce industry are propelling the growth of warehouse automation market globally.

Growing Autonomous Drones for Warehouse Management

Autonomous drones aren't simply a futuristic technology that may be deployed in a few decades; they are now being used in several warehouses to carry out the most difficult inventory counts. Drones can be used for intralogistics and automatically checking inventories. Drones are made possible by recent technical advancements like optical navigation and sensors. Warehouse managers may reduce tiresome and unsafe tasks by using drones for these applications. Drone-driven warehouse automation is made possible by new scanning technologies such as bar codes, QR codes, RFID, and artificial intelligence (AI). Furthermore, the construction of scalable drone applications is made possible by the onboard processing capacity and effective algorithms. All of this demonstrates that drones have begun to play a crucial part in the automation of present warehouses. They are well-known for their capacity to fly and hover independently, navigate within, land correctly, and maybe function in fleets as well as avoid obstructions in various warehouse layouts. Inventory management, intra-logistics of commodities, as well as inspection and monitoring, are the three most potential indoor drone use cases in warehouses. Thus, growing autonomous drones for warehouse management are expected to increase the demand of warehouse automation in the global market.

Growing Use of Robotics in Warehousing is Stimulating the Market Growth

The growing use of robotics for automation in warehousing is slowly becoming a trend with newer, groundbreaking technology. The robots are offering significant value to the



warehouse operations. As they are helpful to mitigate the risks associated with errors, reduce overhead cost, speed up order fulfillment, and facilitate better inventory management, business is rapidly adopting robotics as an alternative to automate their warehouses. For instance, according to the Association for Advancing Automation (A3), robot sales hit a new record in North America with 12,305 robots sold in Q2 2022, a 25% increase in unit orders over the same period in 2021. With resurgence in sales to automotive companies and an ongoing need to manage increasing demand to automate logistics for e-commerce, enterprises are rapidly enabling robotics as an effective technology to automate the workflow without any hindrance. Additionally, large enterprises are investing heavily on automation to keep the pace with the developing economy such as Amazon and Walmart investment of USD 1 Billion and USD 14 Billion in warehouse automation solutions like robots and Al. Furthermore, technical advancements in robotics for small and medium scale enterprises such as Autonomous Mobile Robots (AMRs), are enabling the work through automation in the operation process with sort, grab and pick items from the warehouse floor. Therefore, the growing use of robotics in warehouses is expected to further stimulate the global warehouse automation market in the forecast period.

Growing Use of Internet of Things (IoT) In the Industry

The rapid expansion of Internet of Things (IoT) with IoT based predictive maintenance and IoT based asset monitoring solutions, has enabled potential opportunities. The growing use of Internet of Things (IoT)has altered the workload flexible, available, and cost effective in various manufacturing industries. Data captured by IoT devices connecting different assets and systems enable businesses to predict, plan, and take proactive steps for any events like parts repair or equipment failure before it occurs. In addition, IoT-based predictive maintenance uses IoT technology to analyse production systems in real-time and identify potential causes of component breakdown. Moreover, internet of things enables in proliferating data exchange mobility, data deployment options and varied technology connectivity during warehouse automation. The increasing numbers of smart devices and sensors, proliferated with IoT-powered asset monitoring solutions, has become a natural step of technological evolution. In the IoT space, container tracking, trailer monitoring, vehicle monitoring, real-time location tracking, and supply chain management, have become easy to access through combining internet of Things (IoT) solutions with predictive management applications. For instance, based on the state of IoT-Spring 2022 report, the number of connected IoT devices grew by 18% from 12.2 billion to 14.4 billion globally. Thus, the growing use of internet of things (IoT) is propelling the demand of warehouse automation market in the forecast period.



Market Segmentation

Based on product, the market is segmented into hardware, software, and service. Based on automation level, the market is segmented into system automation, mechanized automation, semi-automated, and fully automated. Based on technology, the market is segmented into automated storage and retrieval systems (AS/RS), autonomous mobile robots (AMRs), automatic guided vehicles (AGVs), MRO outbounds, automatic identification and data capture, and others. Based on application, the market is segmented into automotive, food and beverage, e-commerce, pharmaceutical, and others. Based on vertical, the market is further split into retailers, manufacturers, and distributors. The market analysis also studies the regional segmentation to devise regional market segmentation, divided among North America, Europe, Asia-Pacific, South America, and Middle East & Africa.

Company Profiles

ABB Ltd., Bastian Solutions LLC, Yaskawa Electric Corporation, Siemens AG, Dematic Group (Kion Group AG), Daifuku Co. Limited, Swisslog Holding AG (KUKA AG), Honeywell Intelligrated (Honeywell International Inc.), Jungheinrich AG, Fanuc Corporation are among the major players that are driving the growth of the global warehouse automation market.

Report Scope:

In this report, the global warehouse automation market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Global Warehouse Automation Market, By Product:

Hardware

Software

Service

Global Warehouse Automation Market, By Automation Level:



System Automation Mechanized Automation Semi-Automated **Fully Automated** Global Warehouse Automation Market, By Technology: Automated Storage and Retrieval Systems (AS/RS) Autonomous Mobile Robots (AMRs) Automatic Guided Vehicles (AGVs) MRO Outbounds Automatic Identification and Data Capture Others Global Warehouse Automation Market, By Application: Automotive Food and Beverage E-Commerce Pharmaceutical Others Global Warehouse Automation Market, By Vertical: Retailers Manufacturers



Distributors

	Distributors		
Global Warehouse Automation Market, By Region:			
	Asia-P	acific	
		China	
		Japan	
		India	
		Australia	
		South Korea	
North A		America	
		United States	
		Canada	
		Mexico	
	Europe	e	
		United Kingdom	
		Germany	
		France	
		Spain	
		Italy	

Netherlands



Middle East & Africa	
Israel	
Turkey	
Saudi Arabia	
UAE	
South America	
Brazil	
Argentina	
Colombia	
Competitive Landscape	
Company Profiles: Detailed analysis of the majo Warehouse Automation market.	r companies present in the global
Available Customizations:	
With the given market data, TechSci Research company's specific needs. The following custom	

Company Information

report:

Detailed analysis and profiling of additional market players (up to five).



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