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Warehouse Robotics Market By Type (Automated Guided Vehicles (AGVS), Articulated Robotic Arms, Collaborative Robots , SCARA Robots, Others), By Operation (Pick and Place, Assembling and Dissembling, Packaging), By End User (Food and Beverage, Electronics and Electrical, Automotive, Others): Global Opportunity Analysis and Industry Forecast, 2024-2032

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Abstracts

The global warehouse robotics market size was valued at $ 7,069.1 million in 2023 and is projected t%li%reach $ 31,343.7 million by 2032, registering a CAGR of 18.2% from 2024 t%li%2032.

Warehouse robots are independent machines created t%li%enhance or substitute human labor in a factory setting through automation. Moreover, robots consist of tw%li%components including the machine tailored for a specific task and the software that manages it. Typically, robots are designed for a specific function, such as transferring materials between warehouse slots or between slots and the loading dock. Additionally, some robots can rearrange the warehouse layout by moving entire racks t%li%optimize space efficiency. In addition, increasing robots need for warehouse robotics owing t%li%the current industry growth in the e-commerce sector. Warehouses and fulfillment centers are facing challenges in the absence of additional funding as customers place an increasing number of orders online and demand faster delivery times. Moreover, warehouses are now experiencing heightened pressure t%li%expedite

the movement of products from storage t%li%shipping at an accelerated rate compared t%li%previous times.

Warehouse automation combines software and hardware t%li%enhance efficiency, work in quicker and more efficient order fulfillment. The warehouse management system (WMS) detects a sudden increase in orders for specific products. Moreover, the WMS may instruct its robotic systems t%li%rearrange these items nearer t%li%the loading area without disrupting ongoing operations. Moreover, at the time of processing orders, human workers can expedite order picking and pallet building since it have shorter distances t%li%cover.

Furthermore, different sectors are experiencing varying rates of adoption when it comes t%li%warehouse robotics. One sector that is rapidly implementing robotics is online retail. In fact, Amazon alone had more than 750,000 robots operating in its warehouses as of 2022, and other e-commerce giants are als%li%embracing this technology. Walmart, for instance, introduced autonomous robots t%li%25 of its distribution centers in 2021, as reported by TechCrunch.

By type, the articulated robotic arm segment had the largest revenue in 2023. In warehousing robotics refers t%li%the use of self-contained devices intended t%li%either replace or supplement human labor in application related t%li%manufacturing or logistics. A robot is made up of tw%li%parts: the software that directs the movements of the physical machine and the machine itself, which is designed t%li%carry out a particular function. Such robots are made t%li%perform specific tasks that caters t%li%warehousing, including rearranging racks t%li%maximize space utilization or moving materials around a warehouse. By integrating these robots int%li%warehouse management systems and giving them sophisticated sensors and potent processing power, businesses can further augment the capabilities of these machines. Supply chain automation is greatly impacted by robots, whose market value is expected t%li%increase from $13 billion in 2018 t%li%$27 billion by 2025.

By operation, the assembling & dissembling segment had the largest revenue in 2023. Warehouse automation robotics have the potential t%li%enhance supply chain visibility through the automation of inventory processes. In the past, warehouses were not typically designed for easy navigation. However, inventory robots leverage computer vision, deep learning, and standardized product identification t%li%address this issue. Leading companies such as Ware and Gather AI utilize computer vision and deep learning technologies t%li%swiftly and accurately scan warehouse shelves, surpassing the capabilities of human employees.

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By end user, the automotive segment had the largest revenue in 2023. The food and beverage industry is als%li%adopting robotics, as it depends on efficient and precise handling t%li%deliver perishable goods t%li%consumers in a timely manner. The automotive sector was among the pioneers in utilizing robotics, implementing it in assembly lines, and now they are rapidly automating other areas of their operations. Moreover, pharmaceutical companies demand utmost accuracy in their supply chain, as they must trace the origin and history of each pill they manufacture, and they are increasingly turning t%li%robots t%li%assist them in meeting these stringent requirements. For instance, at one of Amazon fulfillment centers close t%li%Nashville, Tennessee, Amazon combined Proteus and Cardinal robotics systems t%li%conduct a collaborative test on an outbound dock. The Cardinal system oversees putting packages destined for the same zip code int%li%designated carts. The staff affectionately refers t%li%this practice as 'playing Tetris'. Subsequently, Proteus system autonomously transports these fully packed carts t%li%delivery trucks, smoothly navigating the open floor of the outbound dock and working alongside employees. Although there is still much work t%li%be done t%li%optimize this process, the potential safety advantages of this project are truly significant.

The warehouse robotics market is segmented on the basis of type, operation, end user, and region. By type, the market is categorized int%li%automated guided vehicles (AGVs), automated storage and retrieval systems, cobots, articulated robotic arms, and others. Depending on operation, it is divided int%li%pick & place, assembling & dissembling, and packaging. By end user, the market is segregated int%li%food & beverage, electronics & electrical, automotive, and others. and Region wise, the market is analyzed across North America, Europe, Asia-Pacific, LA, and MEA.

Competition Analysis

Key companies profiled in the warehouse robotics market include KION Group, Honeywell International Inc., KUKA Industries GmbH & Co. K, BlueBotics, Omron Corporation, ABB Ltd., FANUC, Kawasaki Heavy Industries, Ltd., Hirata Corporation, and Delta Electronics, Inc.

Key Benefits For Stakeholders

This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the warehouse robotics market analysis from 2024 t%li%2032

t%li%identify the prevailing warehouse robotics market opportunities.

The market research is offered along with information related t%li%key drivers, restraints, and opportunities.

Porter's five forces analysis highlights the potency of buyers and suppliers t%li%enable stakeholders make profit-oriented business decisions and strengthen their supplier-buyer network.

In-depth analysis of the warehouse robotics market segmentation assists t%li%determine the prevailing market opportunities.

Major countries in each region are mapped according t%li%their revenue contribution t%li%the global market.

Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.

The report includes the analysis of the regional as well as global warehouse robotics market trends, key players, market segments, application areas, and market growth strategies.

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Analysis of raw material in a product (by %)

Manufacturing Capacity

End user preferences and pain points

Investment Opportunities

Senari%li%Analysis & Growth Trend Comparision

Technology Trend Analysis

Consumer Preference and Product Specifications

Market share analysis of players by products/segments

New Product Development/ Product Matrix of Key Players

Strategic Recommendations

Additional company profiles with specific t%li%client's interest

Expanded list for Company Profiles

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Historic market data

Key player details (including location, contact details, supplier/vendor network etc. in excel format)

Market share analysis of players at global/region/country level

Key Market Segments

By Operation

Pick and Place

Assembling and Dissembling

Packaging

By Type

Automated Guided Vehicles (AGVS)

Articulated Robotic Arms

Collaborative Robots

SCARA Robots

Others

By End User

Food and Beverage

Electronics and Electrical

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- Automotive
- Others

By Region

- North America
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- UK
- Italy
- Rest of Europe
- Asia-Pacific
- China
- Japan
- South Korea
- India
- Rest of Asia-Pacific

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Latin America

Brazil

Argentina

Colombia

Chile

Rest of Latin America

Middle East and Africa

Saudi Arabia

UAE

Nigeria

Egypt

Rest Of Mea

Key Market Players

Honeywell International Inc.

KION Group

KUKA AG

BlueBotics

Omron Corporation

ABB Ltd.

Fanuc

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Kawasaki Heavy Industries, Ltd.

HIRATA Corporation

Delta Electronics, Inc.

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CHAPTER 9: COMPANY PROFILES

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