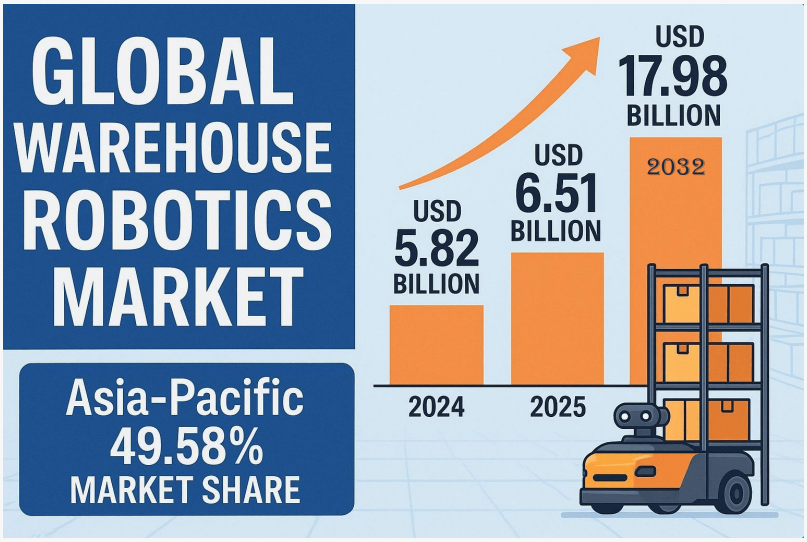
What Will Be the Size of Warehouse Robotics Market in 2032?

Global Warehouse Robotics Market to Reach USD 17.98 Billion by 2032, Driven by Automation and E-commerce Growth



Warehouse Robotics Market

PUNE, MAHARASHTRA, INDIA, June 6, 2025 /EINPresswire.com/ -- The global warehouse robotics market size was valued at USD 5.82 billion in 2024 and is projected to grow to USD 6.51 billion in 2025. According to recent industry analysis, the market is expected to reach an impressive USD 17.98 billion by 2032, exhibiting a robust compound annual growth rate (CAGR) of 15.6% during the forecast period. This growth is primarily fueled by the increasing demand for automation in warehouse operations, driven by the rapid expansion of e-commerce, rising labor costs, and the need for improved operational efficiency and accuracy in inventory handling.

> Asia-Pacific dominated the warehouse robotics industry with a market share of 49.58% in 2024. ”
>
> *Fortune Business Insights*

Asia-Pacific emerged as the dominant region in the global warehouse robotics market in 2024, accounting for a significant 49.58% of the total market share. The region’s leadership is attributed to strong manufacturing and logistics infrastructure in countries such as China, Japan, and South Korea, along with significant investments in automation and smart warehouse technologies. With continued technological advancements and the rising adoption of Industry 4.0 practices, the Asia-Pacific market is poised to maintain its lead and play a critical role in shaping the future of warehouse automation.

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Who Are the Key Players Driving Innovation in the Warehouse Robotics Market?

The global warehouse robotics market is fiercely competitive, with leading players continuously pushing the boundaries of automation and smart logistics. Prominent companies shaping the market landscape include;

- ABB Ltd. (Switzerland)
- FANUC Corporation (Japan)
- Hikvision (Hikrobot) (China)
- KION Group AG (Germany)
- Daifuku (Japan)
- Omron Corporation (Japan)
- KUKA AG (Germany)
- JBT (U.S.)
- SSI Schaefer (U.S.)
- Yaskawa Motoman (Japan)
- Locus Robotics (U.S.)

Warehouse Robotics Market Bolstered by Pandemic-Driven E-commerce Surge and Technological Advancements

The COVID-19 pandemic had a significant impact on the global warehouse robotics market, acting as a catalyst for rapid adoption of automation technologies. Changing consumer demographics, increased internet usage, and a surge in online spending patterns during lockdowns accelerated the need for efficient and contactless warehouse operations. This unprecedented shift toward digital commerce placed immense pressure on supply chains, prompting businesses to invest in warehouse robotics to maintain speed, accuracy, and efficiency in fulfilling the growing volume of online orders.

One of the latest trends contributing to market growth is the enhanced material handling capability of warehouse robots. These systems are now capable of lifting and transporting heavy goods with precision and minimal human intervention, reducing the risk of injury and increasing throughput in logistics and distribution centers. This advancement is particularly critical for industries managing bulky or heavy inventory, such as automotive, retail, and industrial manufacturing, where speed and safety are paramount.

The increasing volume of trade in both durable and non-durable goods is a major driving factor fueling the demand for warehouse robotics. As global trade scales up, warehouses are required to manage larger inventories and ensure quick turnaround times for shipping. Automated systems offer scalable and efficient solutions for sorting, packing, and transporting goods, helping businesses streamline operations and maintain competitiveness in a fast-paced market environment.

Despite the positive outlook, the high initial investment associated with deploying advanced robotic systems continues to pose a short-term restraint for many businesses, especially small and mid-sized enterprises. Costs related to purchasing, integration, and training can be

significant barriers. However, as technology matures and economies of scale improve, these challenges are expected to diminish, paving the way for broader adoption across the industry.

Warehouse Robotics Market Segmentation Highlights Robust Growth Across Key Segments; E-Commerce Leads the Charge

The global warehouse robotics market exhibits significant growth across various segments, driven by rising automation needs and evolving supply chain demands. By product type, the automated guided vehicles (AGVs) segment emerged as the dominant category, owing to their extensive use in inventory transportation. These vehicles enhance operational efficiency by navigating warehouses autonomously, reducing human intervention and optimizing workflow. In terms of application, the transportation segment is witnessing strong momentum, supported by the increasing reliance on robotics to streamline goods movement within distribution centers.

Based on payload capacity, robots with the ability to handle loads above 900 kg are experiencing a surge in demand. This growth is attributed to the increasing need for heavy-duty operations, particularly in large-scale warehouses handling bulk products and industrial materials. Furthermore, by end-user industry, the e-commerce sector is anticipated to hold the largest market share during the forecast period. This is largely driven by shifting consumer demographics and a substantial rise in online spending, pushing companies to invest heavily in robotic solutions to enhance speed, scalability, and customer satisfaction.

Key industry players are intensifying their market presence through strategic collaborations, partnerships, and innovation-driven initiatives. These efforts aim to expand technological capabilities, enhance product offerings, and meet the growing global demand for advanced warehouse automation solutions.

Key Industry Developments Accelerate Market Evolution

- DHL partnered with Locus Robotics to deploy 5,000 autonomous mobile robots across its warehouses to handle picking, packing, and distribution tasks.
- DF Automation & Robotics Sdn Bhd launched a new AMR brand called TITAN, designed to carry heavy loads up to 1.5 tonnes.
- Thira Robotics (South Korea) introduced a new autonomous mobile robot in the U.S., equipped with navigation capabilities suitable for dynamic warehouse environments.

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