

Logistics Robot Market Size, Share & Trends Analysis Report By Component (Hardware, Software, Services), By Industry (E-commerce, Healthcare), By Application, By Region, And Segment Forecasts, 2025 - 2030

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Abstracts

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Logistics Robot Market Size & Trends

The global logistics robot market size was expected at USD 14.50 billion in 2024 and is expected to grow at a CAGR of 15.9% from 2025 to 2030. The market is expanding rapidly due to the increasing demand for automation, technological advancements, and industry-specific requirements. The push toward efficiency, cost reduction, and scalability in logistics operations is driving the adoption of robotics across warehouses, distribution centers, and fulfillment hubs.

The surge in e-commerce and omnichannel retailing has led to an unprecedented need for efficient and automated warehousing solutions. Companies such as Amazon.com, Inc., Alibaba.com, and Walmart are leveraging autonomous mobile robots (AMRs), automated guided vehicles (AGVs), and robotic picking systems to optimize their warehouse operations. These robots are designed to reduce manual handling, improve order accuracy, and enhance sorting and packaging efficiency. Moreover, with same-day and next-day delivery expectations becoming the industry norm, automation has become a necessity rather than an option. By deploying robotics, companies can achieve faster turnaround times, better space utilization, and a more streamlined supply chain.

Significant advancements in artificial intelligence (AI), machine learning (ML), and

computer vision have enhanced the capabilities of logistics robots. AI-powered robots can now navigate complex warehouse layouts, avoid obstacles, and optimize pick-and-place operations without human supervision. Machine learning algorithms enable robots to learn from past tasks, continuously improving their efficiency and adaptability. Computer vision technology, combined with 3D sensors and LiDAR, allows robots to precisely identify, classify, and handle objects of different sizes, shapes, and weights. These innovations make logistics robots more intelligent, autonomous, and cost-effective, encouraging widespread adoption.

The logistics industry faces an increasing challenge in hiring and retaining warehouse workers. The aging workforce and the physically demanding nature of warehouse jobs have led to significant labor shortages, especially in North America, Europe, and parts of Asia Pacific. In addition, rising wages and employee benefits have made manual labor expensive. Logistics robots provide a cost-effective and scalable solution, allowing warehouses to operate 24/7 with minimal human intervention. These robots eliminate fatigue-related errors and reduce workplace injuries, further decreasing overall operational costs.

While the market is expanding rapidly, several challenges hinder its widespread adoption and operational efficiency. One of the primary challenges facing the market is the high upfront cost of robotic systems. The investment in hardware, software, installation, and infrastructure modifications can be substantial, making it difficult for small and mid-sized enterprises (SMEs) to afford robotic solutions. Moreover, maintenance and repair costs, software upgrades, and AI model training add to the total cost of ownership. While long-term cost savings and increased efficiency justify the investment, the initial capital expenditure (CAPEX) remains a major barrier, especially in price-sensitive markets.

Global Logistics Robot Market Report Segmentation

This report forecasts revenue growth at the global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2018 to 2030. For this study, Grand View Research has segmented the global logistics robot market based on component, application, and region:

Component Outlook (Revenue, USD Million, 2018 - 2030)

Hardware

Automated Guided Vehicles

Autonomous Mobile Robots

Robot Arms

Others

Software

Fleet Management Software (FMS)

Warehouse Management Systems (WMS)

Pick & Place/Sorting Software

Others

Services

Integration & Deployment

Maintenance & Support

Application Outlook (Revenue, USD Million, 2018 - 2030)

Warehouse and Storage

Packaging and Palletizing

Transportation and Delivery

Others

Industry Outlook (Revenue, USD Million, 2018 - 2030)

E-commerce

Healthcare

Retail

Food & Beverages

Automotive

Others

Regional Outlook (Revenue, USD Million, 2018 - 2030)

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Asia Pacific

China

India

Japan

South Korea

Australia

South America

Brazil

Middle East & Africa (MEA)

KSA

UAE

South Africa

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