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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

This report can be delivered to the clients within 3 Business Days

Logistics Robot Market Size & Trends

The global logistics robot market size was expected at USD 14.50 billion in 2024 and is expected tgrow at a CAGR of 15.9% from 2025 t2030. The market is expanding rapidly due tthe 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 tan 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 toptimize their warehouse operations. These robots are designed treduce 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

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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 tlearn from past tasks, continuously improving their efficiency and adaptability. Computer vision technology, combined with 3D sensors and LiDAR, allows robots tprecisely 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 tsignificant 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 toperate 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) tafford robotic solutions. Moreover, maintenance and repair costs, software upgrades, and AI model training add tthe 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 t2030. 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

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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

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South America

Brazil

Middle East & Africa (MEA)

KSA

UAE

South Africa

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Contents

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ANALYSIS

CHAPTER 5. LOGISTICS ROBOT MARKET: APPLICATION ESTIMATES & TREND ANALYSIS

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CHAPTER 6. LOGISTICS ROBOT MARKET: INDUSTRY ESTIMATES & TREND ANALYSIS

CHAPTER 7. LOGISTICS ROBOT MARKET: REGIONAL ESTIMATES & TREND ANALYSIS

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CHAPTER 8. COMPETITIVE LANDSCAPE

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