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Logistics Automation Systems Market Forecasts to 2032 - Global Analysis By Component (Hardware, Software, and Services), Deployment Mode, Logistics Type, Technology, Application, End User and By Geography

https://marketpublishers.com/r/L640F31E4116EN.html
Date: January 2026
Pages: 200
Price: US$ 4,150.00 (Single User License)
ID: L640F31E4116EN

Abstracts

According to Stratistics MRC, the Global Logistics Automation Systems Market is accounted for $83.40 billion in 2025 and is expected to reach $175.34 billion by 2032 growing at a CAGR of 11.2% during the forecast period. Logistics Automation Systems involve the use of intelligent technologies, digital platforms, and automated machinery to improve the execution and coordination of logistics activities. They enable automation of key functions including inventory tracking, warehouse operations, material movement, order fulfillment, sorting, packing, and transportation planning. Leveraging robotics, AI, IoT devices, software solutions, and real-time analytics, these systems help organizations increase productivity, minimize human error, lower operating expenses, accelerate order processing, and ensure reliable, efficient movement of goods throughout the supply chain ecosystem.

Market Dynamics:

Driver:

Advancements in AI & vision systems

Advanced algorithms enable real-time object recognition, demand forecasting, and route optimization across warehouses and distribution centers. Vision-guided robots and autonomous mobile robots (AMRs) are improving picking accuracy, sorting speed, and inventory visibility. Deep learning models support predictive maintenance, reducing

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downtime of automated equipment. Integration of AI with warehouse management systems enhances decision-making and operational responsiveness. As e-commerce volumes grow, scalability enabled by intelligent automation is becoming critical. Continuous improvements in sensors, cameras, and edge computing are further strengthening automation performance.

Restraint:

Legacy infrastructure integration

Many warehouses operate with outdated layouts, manual processes, and incompatible IT systems. Retrofitting automation into existing facilities often requires high capital expenditure and operational downtime. Lack of standardized interfaces complicates interoperability between old systems and modern robotics or software platforms. Skilled technical expertise is required to customize integrations, which increases implementation timelines. Small and mid-sized operators face greater challenges due to limited budgets and IT capabilities. These constraints slow modernization efforts and delay realization of automation benefits.

Opportunity:

Micro-fulfillment centers (MFCs)

MFCs are designed to support fast, last-mile delivery in urban and suburban locations. Compact automated storage and retrieval systems maximize space utilization within smaller footprints. Robotics and AI-driven picking solutions enable high throughput with minimal labor dependency. Retailers are deploying MFCs to meet same-day and next-day delivery expectations. Integration with omnichannel platforms improves order accuracy and customer satisfaction. As quick commerce expands, demand for automation tailored to MFC environments is accelerating.

Threat:

Supply chain volatility for components

Automation hardware relies heavily on semiconductors, sensors, drives, and industrial controllers. Disruptions in raw material availability and geopolitical uncertainties impact production schedules. Extended lead times increase project delays and cost overruns for end users. Manufacturers are diversifying suppliers and increasing local sourcing to

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reduce risk exposure. Despite mitigation efforts, component shortages continue to affect scalability. Persistent volatility can slow market growth and affect long-term investment planning.

Covid-19 Impact:

The COVID-19 pandemic reshaped the logistics automation landscape worldwide. Lockdowns and labor shortages highlighted the vulnerability of manual warehouse operations. E-commerce demand surged, forcing companies to accelerate automation adoption for continuity. Supply chain disruptions initially delayed automation projects and equipment deliveries. However, the crisis strengthened the business case for robotics and contactless operations. Companies increasingly invested in automated picking, sorting, and palletizing solutions. Post-pandemic strategies now emphasize resilience, flexibility, and digitally enabled logistics networks.

The hardware segment is expected to be the largest during the forecast period

The hardware segment is expected to account for the largest market share during the forecast period. Core components such as robots, conveyors, sorters, and automated storage systems form the foundation of automated facilities. High upfront investment in physical equipment contributes significantly to overall market value. Growing deployment of AMRs and robotic arms is driving hardware demand across industries. Warehouses are prioritizing scalable and modular hardware to handle fluctuating volumes. Technological advancements are improving durability and energy efficiency of equipment.

The retail & e-commerce segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the retail & e-commerce segment is predicted to witness the highest growth rate. Rapid growth in online shopping is increasing order volumes and fulfillment complexity. Automation enables faster order processing and reduced delivery times. Retailers are adopting robotics to manage peak-season demand efficiently. Integration of automation with inventory and order management systems enhances visibility. Omnichannel retail strategies are further boosting automation investments.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market

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share. Rapid industrialization and expansion of e-commerce are driving automation adoption. Countries such as China, India, and Japan are investing heavily in smart logistics infrastructure. Large-scale warehouse development supports deployment of automated systems. Government initiatives promoting manufacturing and digitalization encourage technology adoption. Availability of cost-effective manufacturing capabilities strengthens regional supply chains.

Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR, owing to early adoption of advanced automation technologies. Strong presence of technology providers accelerates innovation and deployment. Retailers and logistics firms are investing in AI-driven warehouses to enhance efficiency. Labor shortages are pushing companies toward higher automation levels. High capital availability supports large-scale modernization projects.

Key players in the market

Some of the key players in Logistics Automation Systems Market include Dematic, Manhattan Associates, Inc., Daifuku Co., Ltd., Zebra Technologies Corporation, Swisslog Holding AG, Siemens AG, Honeywell International Inc., Vanderlande Industries B.V., Knapp AG, Kardex Group, Jungheinrich AG, BEUMER Group GmbH & Co. KG, SSI Schaefer AG, TGW Logistics Group GmbH, and Murata Machinery, Ltd.

Key Developments:

In July 2025, Siemens AG announced that it has completed the acquisition of Dotmatics, a leading provider of Life Sciences R&D software headquartered in Boston and Portfolio Company of global software investor Insight Partners, for an enterprise value of $5.1 billion. With the transaction now completed, Dotmatics will form part of Siemens? Digital Industries Software business, marking a significant expansion of Siemens? industry-leading Product Lifecycle Management (PLM) portfolio into the rapidly growing and complementary Life Sciences market.

In July 2025, Honeywell announced that it has acquired from Nexceris its Li-ion Tamer business, a leading off-gas detection solution for lithium-ion (li-ion) batteries that detects thermal runaway events. The acquisition enhances Honeywell's portfolio of best-in-class fire life safety technologies within its Building Automation segment and emerged from a partnership with Nexceris over the past 5 years to strategically address lithium-ion

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battery system safety. The transaction is expected to be immediately accretive to Honeywell's financials.

Components Covered:

- Hardware
- Software
- Services

Deployment Modes Covered:

- On-Premises
- Cloud-Based

Logistics Types Covered:

- Inbound Logistics
- Outbound Logistics
- Reverse Logistics
- Procurement Logistics
- Sales / Distribution Logistics

Technologies Covered:

- Robotics & Automation
- Internet of Things (IoT)
- Artificial Intelligence & Machine Learning

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- Robotic Process Automation (RPA)
- RFID & Barcode Systems
- Cloud & Edge Computing

Applications Covered:

- Warehouse & Storage Management
- Transportation & Fleet Management
- Order Management
- Inventory Management
- Goods Receiving & Dispatching
- Sorting & Picking Operations
- Other Applications

End Users Covered:

- Retail & E-Commerce
- Manufacturing
- 3PL & Logistics Providers
- Healthcare & Pharmaceuticals
- Automotive
- Food & Beverage

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- Electronics & Technology
- Other End Users

Regions Covered:

- North America
  - US
  - Canada
  - Mexico
- Europe
  - Germany
  - UK
  - Italy
  - France
  - Spain
  - Rest of Europe
- Asia Pacific
  - Japan
  - China
  - India
  - Australia

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New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments

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- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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