

Logistics Automation Market Forecasts to 2034 – Global Analysis By Component (Hardware, Software and Services), Function, Technology, Application, End User and By Geography

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Abstracts

According to Statistics MRC, the Global Logistics Automation Market is accounted for \$95.0 billion in 2026 and is expected to reach \$174.5 billion by 2034 growing at a CAGR of 7.9% during the forecast period. Logistics automation involves deploying modern technologies including robots, AI-driven software, warehouse control systems, and autonomous vehicles to optimize supply chain activities. It improves productivity by limiting human involvement, reducing mistakes, and speeding up tasks such as storage, picking, packaging, and distribution. Companies implement automation to enhance precision, cut expenses, and satisfy increasing demand for rapid delivery services. Coupled with real-time analytics, it offers improved transparency and smarter operational decisions. With the surge in online retail and international commerce, logistics automation becomes essential for achieving flexibility, reliability, and high-performance supply chain operations while supporting scalability and long term business competitiveness globally.

According to the International Federation of Robotics (IFR, 2024), global sales of professional service robots exceeded 205,000 units in 2023, with transportation and logistics robots accounting for ~113,000 units (?55%), making logistics the largest category of service robots.

Market Dynamics:

Driver:

Rising e-commerce demand

The expansion of online retail significantly propels the logistics automation market, pushing companies to handle growing consumer demand for quicker and more precise deliveries. Increased digital purchases lead to large volumes of orders, creating pressure on storage, sorting, and delivery systems. Automation tools like robotic systems, smart conveyors, and AI-based platforms enable faster and more reliable operations while minimizing human errors. Businesses invest in these solutions to efficiently manage demand spikes and maintain service quality. As e-commerce continues to rise globally, the importance of flexible and efficient automated logistics systems becomes increasingly critical for sustained growth and competitiveness.

Restraint:

High initial investment costs

The substantial upfront expenses associated with logistics automation pose a significant challenge, particularly for smaller businesses. Deploying technologies like robots, automated warehouses, and intelligent software demands heavy financial investment. Expenses extend beyond equipment to include installation, integration, facility modifications, and workforce training. Companies often delay adoption due to concerns about slow returns and high capital risks. Continuous maintenance and system upgrades also add to overall costs. These financial limitations hinder broader adoption, especially in emerging markets where resources are constrained, making it difficult for organizations to implement comprehensive automation solutions within their logistics operations effectively.

Opportunity:

Adoption of artificial intelligence and predictive analytics

The increasing use of artificial intelligence and predictive analytics provides a promising opportunity for the logistics automation market. Intelligent systems help organizations forecast demand, plan efficient routes, and anticipate equipment maintenance needs. By processing vast amounts of data, these technologies enable accurate and timely decision-making. Companies benefit from reduced costs, improved delivery timelines, and better customer experiences. As the demand for data-driven operations grows, businesses are investing more in AI-powered solutions. This advancement supports innovation, enhances operational efficiency, and strengthens the role of automation in

modern logistics and supply chain management worldwide.

Threat:

Economic uncertainty and supply chain disruptions

Fluctuating economic conditions and disruptions in global supply chains pose serious risks to the logistics automation market. Issues like rising inflation, political instability, and trade barriers can influence corporate spending decisions and slow down automation initiatives. In times of financial uncertainty, organizations tend to cut back on investments in advanced technologies. Delays in equipment supply and project execution further complicate implementation. These factors create an unpredictable business environment, affecting market expansion. Companies often focus on immediate operational needs rather than long-term automation strategies, which can hinder the adoption and growth of logistics automation solutions globally.

Covid-19 Impact:

The outbreak of COVID-19 acted as a catalyst for growth in the logistics automation market by exposing weaknesses in traditional supply chain operations. Restrictions and workforce shortages forced organizations to adopt automated technologies like robotics, self-operating vehicles, and advanced tracking tools. The rapid rise in online shopping created additional pressure for faster and safer delivery systems. Automation helped ensure operational stability, enhanced workplace safety, and improved responsiveness to demand changes. While some companies postponed investments initially, the pandemic underscored the need for adaptable and robust logistics systems, encouraging long-term adoption of automation across global supply chains.

The warehouse automation segment is expected to be the largest during the forecast period

The warehouse automation segment is expected to account for the largest market share during the forecast period as it plays a central role in improving storage and distribution processes. By using advanced systems such as robotics, automated retrieval solutions, and warehouse software, it enhances inventory control and speeds up order fulfillment. The rise of online shopping and demand for quick deliveries has increased the importance of efficient warehouse operations. Companies implement these technologies to boost efficiency, reduce mistakes, and handle large order volumes seamlessly. Its contribution to scalability, accuracy, and productivity positions

warehouse automation as the leading segment in the overall logistics automation landscape.

The last-mile delivery segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the last-mile delivery segment is predicted to witness the highest growth rate, driven by the surge in online shopping and the need for quicker and more convenient delivery options. This stage involves transporting products from distribution centers directly to customers, making speed and reliability essential. Advanced technologies like autonomous delivery systems, drones, intelligent routing tools, and automated pickup points are improving efficiency. Businesses are increasingly adopting these innovations to cut costs and improve service quality. Rising urbanization and expectations for rapid delivery services continue to accelerate the expansion of automation in last-mile logistics.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share as a result of its strong technological capabilities and widespread use of advanced automation systems. The region benefits from the presence of leading e-commerce players, significant investments in AI and robotics, and highly developed supply chain infrastructure. Businesses actively adopt automation to increase productivity, minimize reliance on manual labor, and ensure faster deliveries. Growing customer demand for efficient and precise services also encourages implementation. Ongoing technological advancements, favorable policies, and increased digital integration strengthen North America's position as the largest contributor to the global logistics automation market.

Region with highest CAGR:

Over the forecast period, the Asia-Pacific region is anticipated to exhibit the highest CAGR, driven by strong industrial growth, rising online retail, and continuous development of digital infrastructure. Nations like China, India, and Japan are increasingly implementing automation to improve logistics performance and handle higher demand. Expanding urban populations and manufacturing sectors further support this growth. Significant investments from both governments and private organizations in advanced technologies such as robotics and AI accelerate adoption. As companies aim for efficient and scalable operations, Asia-Pacific stands out as the most

rapidly expanding region in the logistics automation industry.

Key players in the market

Some of the key players in Logistics Automation Market include Daifuku, Honeywell, KION Group, SSI Schaefer, TGW Logistics Group, Jungheinrich, Dematic, Swisslog, Beumer Group, Knapp AG, Murata Machinery, Mecalux, Vitronic, Toshiba Logistics, System Logistics SPA, Falcon Autotech, Wisetech Global and Siemens.

Key Developments:

In December 2025, Honeywell International Inc. has been awarded a \$58.79 million contract modification from the U.S. Department of War for work related to the automotive gas turbine 1500 engine platform. The modification, identified as P00026 to contract W56HZV-20-D-0062, is for program services and systems technical support engineering services. This latest award increases the total cumulative value of the contract to \$2.69 billion.

In September 2025, Siemens and leading machine tools and laser manufacturer TRUMPF announced a partnership that promises to elevate industrial production by harnessing advanced digital manufacturing solutions. The collaboration joins Siemens' Xcelerator portfolio with TRUMPF's renowned machine-building and software expertise.

Components Covered:

Hardware

Software

Services

Functions Covered:

Warehouse Automation

Transportation Automation

Inventory & Order Management Automation

Packaging & Palletizing Automation

Sorting & Picking Automation

Technologies Covered:

Robotics & Autonomous Systems

Artificial Intelligence & Machine Learning

IoT & Connected Devices

Cloud & Edge Computing

Big Data & Analytics

Applications Covered:

Inbound Logistics

Outbound Logistics

Production Logistics

Reverse Logistics

Last-Mile Delivery

End Users Covered:

E-commerce & Retail

Manufacturing

Healthcare & Pharmaceuticals

Food & Beverage

Automotive

Aerospace & Defense

Third-Party Logistics (3PL)

Regions Covered:

North America

United States

Canada

Mexico

Europe

United Kingdom

Germany

France

Italy

Spain

Netherlands

Belgium

Sweden

Switzerland

Poland

Rest of Europe

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Thailand

Malaysia

Singapore

Vietnam

Rest of Asia Pacific

South America

Brazil

Argentina

Colombia

Chile

Peru

Rest of South America

Rest of the World (RoW)

Middle East

Saudi Arabia

United Arab Emirates

Qatar

Israel

Rest of Middle East

Africa

South Africa

Egypt

Morocco

Rest of 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 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034

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

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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