

# **Airport Baggage Handling System Market Forecasts to 2034 – Global Analysis By Solution Type (Conveyors, Destination Coded Vehicles (DCVs), Sortation Systems, Screening and Security Systems, Software and Controls, and Services), Airport Class (Class A, Class B, Class C, and Class D), Check-in Type, Technology, Application, and By Geography**

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## **Abstracts**

According to Statistics MRC, the Global Airport Baggage Handling System Market is accounted for \$11.8 billion in 2026 and is expected to reach \$22.2 billion by 2034 growing at a CAGR of 8.2% during the forecast period. The airport baggage handling system covers automated conveyors, sorters, scanners, tracking software, and screening technologies used to transport and manage passenger luggage within airports. It supports new airport construction and terminal modernization projects. Growth is driven by rising global air passenger traffic, airport capacity expansion, demand for faster baggage processing, stricter security regulations, adoption of smart airport technologies, and focus on reducing mishandling rates and improving passenger satisfaction.

According to the International Air Transport Association (IATA), airlines handled approximately 4.6 billion passenger bags in 2023.

### **Market Dynamics:**

Driver:

Rising passenger traffic straining existing baggage infrastructure

The resurgence in global air travel has placed unprecedented pressure on legacy baggage infrastructures, which are frequently unable to handle the sheer volume of checked luggage during peak periods. As annual passenger numbers approach pre-pandemic highs and are projected to double over the next two decades, airports are experiencing significant bottlenecks at check-in and reclaim points. This surge necessitates a transition toward high-throughput, automated systems to prevent delays and reduce mishandling rates.

#### Restraint:

Extremely high capital and installation costs

Beyond the initial procurement of sophisticated hardware like high-speed sorters and Destination Coded Vehicles (DCVs), the costs associated with facility modification, software integration, and long-term specialized maintenance are substantial. Small-to-medium-sized airports often find these multi-million dollar investments unviable due to their limited capital reserves. This financial burden, coupled with the long ROI cycles typical of aviation infrastructure, significantly slows the pace of modernization across less-congested or regional hubs globally.

#### Opportunity:

Integration of AI and analytics for predictive maintenance and optimized routing

By leveraging machine learning algorithms, airports can transition from reactive to predictive maintenance, identifying potential mechanical failures before they cause system-wide disruptions. AI-driven routing optimization also lets the system move luggage around on conveyors in real time based on traffic, which cuts down on energy use and travel times. These digital advancements not only minimize the incidence of lost or delayed bags but also significantly lower long-term operational costs through improved resource allocation.

#### Threat:

Cybersecurity risks to increasingly connected and automated BHS

The transition toward cloud-based management and remote monitoring exposes critical infrastructure to ransomware attacks, data breaches, and potential system sabotage by

malicious actors. A successful breach could paralyze airport operations, leading to massive financial losses and compromised passenger safety. Ensuring robust cybersecurity protocols, such as zero-trust architectures and encrypted data transmission, is now essential, as the industry faces the challenge of protecting complex, interlinked legacy and modern digital frameworks.

### **Covid-19 Impact:**

The COVID-19 pandemic caused a severe contraction in the baggage handling market as global flight bans and plummeting passenger demand led to deferred infrastructure projects. Major airport expansions were paused to preserve liquidity, resulting in a temporary halt in new system installations. However, the crisis also accelerated the shift toward touchless technologies and automated self-service bag drops to minimize human contact. As the industry recovers in 2026, the focus has shifted from simple capacity expansion to building resilient, hygiene-centric, and highly efficient automated systems.

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

The conveyors segment is expected to account for the largest market share during the forecast period due to its fundamental role as the primary backbone of airport baggage logistics. Nearly every airport, regardless of size or modernization level, relies on extensive conveyor networks to transport luggage between check-in, screening, and loading zones. Their established reliability, lower cost relative to specialized vehicles, and the constant need for replacement or retrofitting of belts and rollers ensure a steady revenue stream. As global infrastructure expands, the continuous demand for these essential mechanical systems maintains their market dominance.

The screening and security segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the screening and security segment is predicted to witness the highest growth rate as airports worldwide align with increasingly stringent international safety regulations. The mandate to integrate advanced Explosive Detection Systems (EDS) and Computed Tomography (CT) scanners into baggage lines is driving massive technology upgrades. These high-value systems are essential for detecting modern threats without compromising baggage throughput. As security standards evolve to combat sophisticated risks, the investment in cutting-edge, AI-enhanced screening hardware is outpacing the growth of traditional mechanical transport segments within

the industry.

### **Region with largest share:**

During the forecast period, the Asia Pacific region is expected to hold the largest market share, driven by the massive scale of greenfield airport developments and the expansion of existing megahubs. Countries like China and India are leading global aviation growth, investing billions in new terminal infrastructure to accommodate their burgeoning middle-class populations. The sheer volume of new projects in this region necessitates the procurement of comprehensive, large-scale baggage handling systems. This sustained high-value infrastructure investment ensures that Asia Pacific remains the dominant revenue contributor to the global baggage handling market.

### **Region with highest CAGR:**

During the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR, fueled by rapid urbanization and a robust post-pandemic recovery in domestic and international air travel. Governments across the region are aggressively promoting smart airport initiatives, incorporating the latest in automation and RFID tracking to improve operational efficiency. The transition from manual to automated processes in emerging economies provides a significant growth trajectory compared to the more mature, replacement-driven markets of North America and Europe. This dynamic development landscape positions Asia Pacific as the fastest-evolving market for advanced baggage handling technologies.

### **Key players in the market**

Some of the key players in Airport Baggage Handling System Market include Vanderlande Industries B.V., Siemens AG, Daifuku Co., Ltd., BEUMER Group GmbH & Co. KG, Leonardo S.p.A., Alstef Group, Fives SA, CIMC Tianda Holdings Co., Ltd., SITA, Amadeus IT Group, S.A., Glidepath Limited, G&S Airport Conveyor, Grenzebach Maschinenbau GmbH, Pteris Global Limited, Babcock International Group plc.

### **Key Developments:**

In December 2025, Siemens Logistics deployed its next-gen baggage handling software at Munich Airport, improving real-time tracking.

In October 2025, BEUMER Group announced a contract to modernize baggage

systems at Dubai International Airport, integrating AI-based fault detection.

In July 2025, Daifuku Co. Ltd. expanded its baggage automation solutions in Tokyo Haneda Airport, enhancing throughput capacity.

#### Solution Types Covered:

Conveyors

Destination Coded Vehicles (DCVs)

Sortation Systems

Screening and Security Systems

Software and Controls

Services

#### Airport Classes Covered:

Class A

Class B

Class C

Class D

#### Check-in Types Covered:

Traditional Check-in Counter Systems

Assisted Service Bag Drop

Self-Service Bag Drop (SSBD)

**Technologies Covered:**

Traditional BHS (Barcode-based)

RFID (Radio-Frequency Identification) BHS

Emerging Technologies

**Applications Covered:**

Check-in, Conveyance, and Sorting

Screening and Security

Loading and Unloading

Reclaim

**Regions Covered:**

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

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
- 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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