

Airport Baggage Handling Systems - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

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Report description:

Airport Baggage Handling Systems Market Analysis

The airport baggage handling systems market is valued at USD 2.46 billion in 2025 and is forecast to reach a market size of USD 3.95 billion in 2030, translating into a robust 9.87% CAGR. Growth is anchored in the aviation sector's passenger-traffic rebound, steady capacity-expansion pipelines, and airports' shift toward automation to hedge against labor shortages and rising security-compliance costs. Mid-life system retrofits, digital-twin driven predictive maintenance, and computer-vision based tracking are reshaping procurement priorities across every tier of the airport baggage handling systems market. Vendors able to combine conveyor reliability with AI-enabled analytics now command price premiums, while cybersecurity readiness has moved from a back-office concern to a board-level procurement criterion after regulators tightened incident-reporting timelines. Increasingly, capital projects bundle hybrid systems, energy-efficient motors, and UV-C disinfection modules to satisfy sustainability targets and public-health guidelines.

Global Airport Baggage Handling Systems Market Trends and Insights

Surging Global Passenger Volumes

Passenger traffic has already surpassed pre-pandemic forecasts, placing acute strain on baggage infrastructure at hub airports that dominate the airport baggage handling systems market. The Airports Council International projects volumes will double by 2040, an outlook that accelerates equipment replacement cycles and spurs interest in expandable modular layouts. Mega-hubs

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processing more than 40 million travelers are adding early-baggage-storage modules and tote-based sorters to sustain throughput during peak waves. Although baggage mishandling fell to 6.9 per 1,000 passengers in 2023, each misrouted bag still costs airlines USD 100-200 in compensation and re-routing fees, driving airports to invest in AI-backed root-cause analytics. North American operators have earmarked upgrade budgets of 75% of their pre-pandemic spend over the next five years, underscoring the long-run demand floor for the airport baggage handling systems market.

Airport Capacity-Expansion Programs

Landmark projects such as the USD 35 billion Al Maktoum International expansion, designed for 260 million annual passengers, illustrate the scale at which next-generation baggage systems are specified. European peers follow suit; Schiphol's EUR 6 billion (USD 8.13 billion) program modernizes its baggage basements while embedding climate-control upgrades that improve ergonomic working conditions. North American airports from Salt Lake City to Seattle-Tacoma are layering LEED-aligned motor technologies into new lines to curb electricity draw by up to 25% on light-load cycles. These projects create long-tail aftermarket revenue streams for retrofit sensors, control-software licenses, and cybersecurity audits within the airport baggage handling systems market.

High Capex and Long ROI Cycles

Comprehensive baggage projects routinely exceed initial budgets. Seattle-Tacoma's optimization jumped from USD 320 million to USD 540 million before commissioning, a cautionary tale for mid-tier airports evaluating similar scopes. Long payback periods of 10-15 years clash with concession periods for privatized terminals, forcing operators to securitize user-fee streams or tap green-bond structures. The Airports Council International now recommends that finance committees stress-test ROIs at hurdle rates 150 basis points above sovereign yields, yet smaller operators still find debt-service coverage challenging.

Other drivers and restraints analyzed in the detailed report include:

Shift Toward Integrated RFID Tracking / Demand for End-to-End Automation / Legacy IT and Interoperability Gaps /

For complete list of drivers and restraints, kindly check the Table Of Contents.

Segment Analysis

Passenger hubs exceeding 40 million annual travelers controlled 40.31% of the airport baggage handling systems market share in 2024. These mega-facilities also posted a 10.41% CAGR, anchoring the airport baggage handling systems market size growth curve over 2025-2030. Their budgets support individual carrier systems, robotics, and AI-enabled control suites that smaller airports often adopt only after two technology cycles. Dubai's Al Maktoum blueprint shows how embedded smart conveyors and predictive-maintenance dashboards integrate with digital-twin masterplans to future-proof demand surges.

Mid-tier airports in the 25-40 million bracket are closing the innovation gap by phasing upgrades, starting with early-baggage-storage zones that relieve peak-load pressure. Facilities serving 15-25 million passengers are standardizing on modular conveyors and RFID gateways to raise accuracy without full basement rebuilds. Small airports below 15 million passengers lean on shared-use self-service devices to lower capex and gradually extend automation footprints. As vendor pricing falls, technology previously confined to mega-hubs flows downstream, lifting baseline expectations across every airport baggage handling systems market node.

Check-in and ticketing solutions represented 31.56% of the airport baggage handling systems market in 2024, reflecting their ubiquity at every terminal entrance stage. Yet tracking and tracing solutions are on a faster 11.20% CAGR, underlining

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management's pivot from transaction automation to data-centric decision support. Airlines quantify mishandling cost-savings at up to USD 3 per passenger once end-to-end visibility becomes standard practice, incentivizing airports to embed RFID mats under reclaim belts and handover points.

Security screening modules retain procurement priority wherever regulators revise detection thresholds. The TSA alone earmarks USD 250 million per year for next-gen explosive detectors that must dovetail seamlessly with conveyor logic and supervisory control software. Early baggage-storage platforms monetize dwell time by offering airlines flexibility to accept bags hours in advance and even create retail pick-up services that add non-aeronautical revenue. The convergent effect keeps the airport baggage handling systems market size expanding across multiple revenue levers, not merely passenger-footfall growth.

The Airport Baggage Handling Systems Report is Segmented by Airport Capacity (Up To 15 Million, 15 To 25 Million, 25 To 40 Million, and Above 40 Million), Solution (Check-In and Ticketing Systems, Security Screening Systems, and More), Technology (Barcode, RFID, and More), System Type (Conveyor Belt Systems, and More), and Geography (North America, Europe, and More). The Market Forecasts are Provided in Terms of Value (USD).

Geography Analysis

North America retains the lead in the airport baggage handling systems market with 32.22% share, backed by modernization mandates such as TSA's yearly USD 250 million screening upgrade program that feeds conveyor-maker order books. Yet legacy infrastructure complicates expansion because retrofits must slot into crowded basements without interrupting operations, lifting installation schedules, and integration spend. Canada and Mexico supply incremental growth, but the United States remains the fulcrum owing to hub-and-spoke network dominance and maturing sustainability legislation.

The Middle East and Africa delivered the fastest 11.15% CAGR, propelled by Gulf mega-projects that target passenger throughput exceeding many European states combined. Dubai's Al Maktoum expansion illustrates how regional planners bypass intermediate technology steps, installing robotics, AI dashboards, and touch-free disinfection modules in first-phase builds. African gateways like Cape Town have queued modernization budgets over USD 1 billion, although funding cycles may stagger implementation timelines. Strong cargo-volume upticks also translate into more integrated bag-and-freight handling solutions, widening the airport baggage handling systems market footprint beyond pure passenger applications.

Europe and Asia-Pacific form a technology vanguard where brownfield constraints meet stringent carbon targets. Schiphol's EUR 6 billion (USD 7.07 billion) plan rebuilds its entire baggage basement to deliver ergonomic workspaces and climate-stable conveyor halls that minimize heat-related motor failure. Asian hubs from Hyderabad to Jakarta operate as manufacturing outposts for global suppliers; Daifuku's new Indian plant quadruples output capacity, lowering lead times for regional customers. South America remains smaller in absolute spend but demonstrates catch-up momentum as carriers relaunch networks and airports leverage multilateral-bank finance to de-risk greenfield upgrades.

List of Companies Covered in this Report:

Daifuku Co. Ltd. / Vanderlande Industries BV / Siemens AG / BEUMER Group? / Alstef Group / CIMC TianDa Holdings Co. Ltd?. / SITA N.V. / Ansir Systems / G&S Airport Conveyer / Leonardo S.p.A / Pteris Global Limited / RBS Global Media Ltd. / Amadeus IT Group, S.A. / Lyngsoe Systems A/S / Brock Solutions / FIVES SAS / Robson Handling Technology Ltd. / ULMA Group /

Additional Benefits:

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Table of Contents:

1 INTRODUCTION

1.1 Study Assumptions and Market Definition

1.2 Scope of the Study

2 RESEARCH METHODOLOGY

3 EXECUTIVE SUMMARY

4 MARKET LANDSCAPE

4.1 Market Overview

4.2 Market Drivers

4.2.1 Surging global passenger volumes

4.2.2 Airport capacity-expansion programs

4.2.3 Shift toward integrated RFID tracking

4.2.4 Demand for end-to-end automation

4.2.5 Early-baggage-storage (EBS) as revenue lever

4.2.6 Pandemic-driven disinfection retrofits

4.3 Market Restraints

4.3.1 High capex and long ROI cycles

4.3.2 Legacy IT and interoperability gaps

4.3.3 Airport labor unions' automation pushback

4.3.4 Cybersecurity compliance costs (EU NIS2/FAA AD)

4.4 Value Chain Analysis

4.5 Regulatory Landscape

4.6 Technological Outlook

4.7 Porter's Five Forces Analysis

4.7.1 Threat of New Entrants

4.7.2 Bargaining Power of Buyers/Consumers

4.7.3 Bargaining Power of Suppliers

4.7.4 Threat of Substitute Products

4.7.5 Intensity of Competitive Rivalry

5 MARKET SIZE AND GROWTH FORECASTS (VALUE)

5.1 By Airport Capacity

5.1.1 Up to 15 million

5.1.2 15 to 25 million

5.1.3 25 to 40 million

5.1.4 Above 40 million

5.2 By Solution

5.2.1 Check-In and Ticketing Systems

5.2.2 Security Screening Systems

5.2.3 Conveying and Sorting Systems

5.2.4 Early Baggage Storage

5.2.5 Baggage Reclaim/Unloading

5.2.6 Tracking and Tracing

5.3 By Technology

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- 5.3.1 Barcode
- 5.3.2 RFID
- 5.3.3 IoT Sensors and Edge Devices
- 5.3.4 Robotics and Autonomous Vehicles
- 5.3.5 AI/Machine Learning Software
- 5.4 By System Type
 - 5.4.1 Conveyor Belt Systems
 - 5.4.2 Tilt-Tray and Cross-Belt Sorters
 - 5.4.3 Destination-Coded Vehicle (DCV)
 - 5.4.4 Tote-based/Individual Carrier Systems
 - 5.4.5 Hybrid and Other Emerging Systems
- 5.5 By Geography
 - 5.5.1 North America
 - 5.5.1.1 United States
 - 5.5.1.2 Canada
 - 5.5.1.3 Mexico
 - 5.5.2 Europe
 - 5.5.2.1 United Kingdom
 - 5.5.2.2 France
 - 5.5.2.3 Germany
 - 5.5.2.4 Rest of Europe
 - 5.5.3 Asia-Pacific
 - 5.5.3.1 China
 - 5.5.3.2 India
 - 5.5.3.3 Japan
 - 5.5.3.4 South Korea
 - 5.5.3.5 Rest of Asia-Pacific
 - 5.5.4 South America
 - 5.5.4.1 Brazil
 - 5.5.4.2 Argentina
 - 5.5.4.3 Rest of South America
 - 5.5.5 Middle East and Africa
 - 5.5.5.1 Middle East
 - 5.5.5.1.1 Saudi Arabia
 - 5.5.5.1.2 United Arab Emirates
 - 5.5.5.1.3 Rest of Middle East
 - 5.5.5.2 Africa
 - 5.5.5.2.1 South Africa
 - 5.5.5.2.2 Egypt
 - 5.5.5.2.3 Rest of Africa

6 COMPETITIVE LANDSCAPE

- 6.1 Market Concentration
- 6.2 Strategic Moves
- 6.3 Market Share Analysis
- 6.4 Company Profiles (includes Global level Overview, Market level overview, Core Segments, Financials as available, Strategic Information, Market Rank/Share for key companies, Products and Services, and Recent Developments)

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- 6.4.1 Daifuku Co. Ltd.
- 6.4.2 Vanderlande Industries BV
- 6.4.3 Siemens AG
- 6.4.4 BEUMER Group?
- 6.4.5 Alstef Group
- 6.4.6 CIMC TianDa Holdings Co. Ltd?.
- 6.4.7 SITA N.V.
- 6.4.8 Ansir Systems
- 6.4.9 G&S Airport Conveyer
- 6.4.10 Leonardo S.p.A
- 6.4.11 Pteris Global Limited
- 6.4.12 RBS Global Media Ltd.
- 6.4.13 Amadeus IT Group, S.A.
- 6.4.14 Lyngsoe Systems A/S
- 6.4.15 Brock Solutions
- 6.4.16 FIVES SAS
- 6.4.17 Robson Handling Technology Ltd.
- 6.4.18 ULMA Group

7 MARKET OPPORTUNITIES AND FUTURE OUTLOOK

7.1 White-space and Unmet-Need Assessment

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