

Airport Baggage Handling Software Market Forecasts to 2034 – Global Analysis By Airport Type (International Airport and Domestic Airport), Solution (Services and Software), Function and By Geography

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Abstracts

According to Statistics MRC, the Global Airport Baggage Handling Software Market is accounted for \$2.0 billion in 2026 and is expected to reach \$5.0 billion by 2034 growing at a CAGR of 11.6% during the forecast period. The software often integrates with security screening systems to ensure that baggage complies with safety and security regulations, minimizing the risk of unauthorized items being transported. It automates the sorting and routing of baggage based on flight details, ensuring that each piece of luggage is directed to the correct destination and loaded onto the appropriate aircraft.

Market Dynamics:

Driver:

Rising global air passenger traffic

The escalating global air passenger traffic serves as a pivotal driver for the airport baggage handling software market, propelling growth. As the number of air travelers continues to surge, airports are confronted with the challenge of efficiently managing and processing an ever-increasing volume of baggage. In response to this demand, airport authorities seek advanced baggage handling software solutions to streamline operations, enhance efficiency, and provide a seamless experience for passengers. These software systems play a crucial role in automating baggage sorting, tracking, and routing, reducing manual errors, and ensuring timely delivery of luggage.

Restraint:

High cost of initial setup

Digital tools and software for luggage management are a prominent trend being adopted by almost every airline and airport operator globally. The setup and maintenance costs for these digital tools and software are quite high. These programs are customized according to airport infrastructure, taking airline passenger traffic into consideration. Additionally, the software integration necessitates a lengthy time commitment from other resources, increasing the initial setup cost beyond typical levels. These elements impede the growth of the market.

Opportunity:

Focus on customer experience

Airports recognize that passengers perceive the entire travel experience, including baggage handling, as integral to their overall satisfaction. Advanced baggage handling software plays a crucial role in ensuring the seamless and efficient movement of luggage, reducing the likelihood of delays, loss, or mishandling. Additionally, by leveraging cutting-edge technology, such as real-time tracking and automated sorting systems, airports can enhance the speed and accuracy of baggage handling processes, contributing to a positive customer experience.

Threat:

Data privacy issues

With the increasing reliance on sophisticated software solutions to manage and track passenger baggage, there is a growing concern about the collection, storage, and handling of sensitive passenger data. Baggage handling software involves the processing of personal information, including travel itineraries and contact details. However, mishandling or unauthorized access to this data can lead to serious breaches of privacy, resulting in legal consequences and damage to the reputation of airports and airlines. As a result, data privacy issues pose a significant threat to the airport baggage handling software market.

Covid-19 Impact

The COVID-19 pandemic has devastated the airline industry, resulting in a decline in passengers and demands for operations to be redesigned in order to comply with new travel laws. While many airline operators and airports were focused on managing hassle-free processing of passengers' needs to meet the new health requirements, the impact on baggage handling was also observed. The COVID-19 pandemic has accelerated digitization projects with a push for self-service and contactless technologies and operations.

The baggage screening segment is expected to be the largest during the forecast period

The baggage screening segment is estimated to hold the largest share, owing to growing terrorism and illegal activities across the globe. Baggage screening devices are now equipped with advanced AI-powered software that locates prohibited items on X-ray images of scanned bags. Moreover, these systems are able to scan up to 30 frames per second and identify objects that are prohibited in two-dimensional black-and-white X-rays, three-dimensional CT scan images, and color X-rays. It also significantly improves passenger safety by removing human error from the baggage check procedure.

The software segment is expected to have the highest CAGR during the forecast period

The software segment is anticipated to have lucrative growth during the forecast period, due to the growing demand for digitized and fully automated baggage handling systems. 100% tracking and traceability are made possible by the software since every bag stays in the same tote during the baggage handling and screening procedure. Moreover, switching to this software technology can save up to 70% of energy usage.

Region with largest share:

Europe commanded the largest market share during the extrapolated period. European airports, renowned for their high passenger volumes and connectivity, are increasingly investing in state-of-the-art baggage handling software to meet the growing demands of a sophisticated and mobile traveller base. Stringent regulatory frameworks and a strong emphasis on security and operational efficiency drive the adoption of advanced baggage handling solutions across European airports.

Region with highest CAGR:

Asia Pacific is expected to witness profitable growth over the projection period, owing to

surging air travel demand and expanding aviation infrastructure. Asia-Pacific's robust air passenger traffic, propelled by a burgeoning middle class and increased tourism, necessitates efficient baggage handling systems. Airports in the region are investing in cutting-edge software technologies to enhance operational efficiency, mitigate delays, and cater to the growing volume of luggage. Additionally, the diverse range of airport sizes and operational complexities in the region necessitate adaptable and scalable software solutions.

Key players in the market

Some of the key players in the Airport Baggage Handling Software Market include Siemens AG, Collins Aerospace, Vanderlande Industries, Amadeus IT Group, Leonardo SPA, Daifuku Co. Ltd., BEUMER Group, Alstef Group, SITA and A-ICE.

Key Developments:

In December 2023, Siemens and Intel to collaborate on advance semiconductor manufacturing production efficiency and sustainability across scopes 1-3 of the value chain.

In October 2023, Siemens and Microsoft have announced a joint project to use AI to increase productivity and bring the benefits of generative AI to industries worldwide. The companies are introducing Siemens Industrial Copilot, an AI-powered jointly developed assistant aimed at improving human-machine collaboration in manufacturing.

In July 2022, Leonardo and BAE Systems are actively progressing UK-Italy collaboration opportunities on the demonstrator aircraft as part of the Future Combat Air System (FCAS) programme, in the framework of a cooperation path launched by Italy and the UK in the Defence sector.

Airport Types Covered:

International Airport

Domestic Airport

Solutions Covered:

Services

Software

Functions Covered:

Baggage Sortation

Baggage Control

Baggage Tracking

Baggage Screening

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 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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