

Airport Baggage Screening Systems Market Outlook 2025-2034: Market Share, and Growth Analysis By Product Type (Advanced Imaging Systems, Computed Tomography Systems, Explosive Detection Systems, X-Ray Systems), By Baggage Type (Hold Baggage, Cabin Baggage), By Application

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Abstracts

The Airport Baggage Screening Systems Market is valued at USD 4.1 billion in 2025 and is projected to grow at a CAGR of 6.9% to reach USD 7.5 billion by 2034. The airport baggage screening systems market is a crucial sector within the aviation security industry, focusing on the design, development, and implementation of technologies that detect and identify prohibited items in passenger baggage. This market encompasses a range of screening technologies, including X-ray scanners, explosives detection systems, and computed tomography (CT) scanners, each tailored to specific security requirements and airport layouts. The demand for advanced baggage screening systems is driven by the need to enhance security, improve operational efficiency, and comply with stringent regulatory requirements. The market is characterized by complex imaging technologies, stringent security standards, and high throughput demands. The focus is on delivering reliable, accurate, and efficient screening solutions that meet the demanding requirements of airport operators and security agencies. The integration of artificial intelligence (AI), machine learning (ML), and advanced imaging techniques is transforming the airport baggage screening systems market.

The airport baggage screening systems market witnessed a significant push towards AI-driven threat detection and CT scanning technologies. There was a noticeable increase in the adoption of AI algorithms for automated threat recognition and anomaly detection. Airport operators focused on deploying CT scanners, improving the accuracy and

efficiency of baggage screening. The integration of machine learning techniques, improving the accuracy of explosives detection and reducing false alarms, enhanced the efficiency of security operations. Furthermore, there was a growing emphasis on developing contactless screening technologies, reducing passenger interaction and improving the travel experience. The development of advanced imaging techniques, such as dual-energy X-ray and 3D imaging, improving threat identification and resolution, also saw increased investment. The use of data analytics platforms, enabling real-time monitoring and performance optimization, improved the overall airport security.

The airport baggage screening systems market is expected to experience continued growth and innovation, driven by the increasing demand for advanced security and efficient passenger processing. We anticipate further advancements in quantum sensing and imaging, enhancing the detection of concealed threats. The integration of blockchain technology will enhance the security and integrity of screening data and passenger information. There will be a greater focus on developing screening systems compatible with future airport designs, including urban air mobility (UAM) hubs and smart airports. The adoption of advanced sensor networks and data analytics will enable real-time monitoring and optimization of screening operations. Furthermore, the market will see increased collaboration between screening system providers, airport operators, and security agencies to develop integrated and optimized security solutions. The integration of circular economy principles, focusing on energy efficiency and waste reduction, will also become more prevalent, aligning with the industry's sustainability goals.

Key Insights Airport Baggage Screening Systems Market

AI-Driven Threat Detection: Automated threat recognition and anomaly detection through artificial intelligence.

CT Scanning Technologies: Improved accuracy and efficiency of baggage screening.

Machine Learning Techniques: Enhanced explosives detection and reduced false alarms.

Contactless Screening: Reduced passenger interaction and improved travel experience.

Quantum Sensing and Imaging: Enhanced detection of concealed threats.

Enhanced Security: The need to protect against evolving security threats.

Operational Efficiency: Streamlining baggage screening processes.

Stringent Regulations: Compliance with international and national security standards.

Technological Advancements: Innovations in AI, CT scanning, and imaging techniques.

Minimizing False Alarms: Balancing security effectiveness with passenger throughput and minimizing disruptions.

Airport Baggage Screening Systems Market Segmentation

By Product Type

Advanced Imaging Systems

Computed Tomography Systems

Explosive Detection Systems

X-Ray Systems

By Baggage Type

Hold Baggage

Cabin Baggage

By Application

Civil Airport

Commercial Airport

Key Companies Analysed

Analogic Corporation

Rapiscan Systems Limited

Glidepath Group Inc.

L3 Security & Detection Systems- Leidos

Gilardoni S.p.A.

Smiths Detection Limited

American Science and Engineering Inc.

Astrophysics Inc.

Nuctech Company Limited

G&S Airport Conveyor Systems LLC

Daifuku Co. Ltd.

Vanderlande Industries B.V.

Beumer Group GmbH

RTX Corporation

Siemens Logistics GmbH

L3Harris Security & Detection Systems

CEIA S.p.A.

Adani Systems Inc.

Garrett Metal Detectors Inc.

Sita SpA

VOTI Detection Inc.

Optosecurity Inc.

Integrated Defense & Security Solutions

Scan-X Security Ltd.

Rohde & Schwarz GmbH & Co. KG

Routescene Inc.

Cobalt Light Systems Inc.

OD Security Solutions Inc.

Morpho Detection LLC

EVS GmbH

Airport Baggage Screening Systems Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modeling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behavior are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are

incorporated to assess their impact on future market performance.

Airport Baggage Screening Systems Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

Countries Covered

North America — Airport Baggage Screening Systems market data and outlook to 2034

United States

Canada

Mexico

Europe — Airport Baggage Screening Systems market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Airport Baggage Screening Systems market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Airport Baggage Screening Systems market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Airport Baggage Screening Systems market data and outlook to 2034

Brazil

Argentina

Chile

Peru

** We can include data and analysis of additional countries on demand.*

Research Methodology

This study combines primary inputs from industry experts across the Airport Baggage Screening Systems value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

Key Questions Addressed

What is the current and forecast market size of the Airport Baggage Screening Systems industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps,

sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

Your Key Takeaways from the Airport Baggage Screening Systems Market Report

Global Airport Baggage Screening Systems market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Airport Baggage Screening Systems trade, costs, and supply chains

Airport Baggage Screening Systems market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Airport Baggage Screening Systems market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Airport Baggage Screening Systems market trends, drivers, restraints, and opportunities

Porter's Five Forces analysis, technological developments, and Airport Baggage Screening Systems supply chain analysis

Airport Baggage Screening Systems trade analysis, Airport Baggage Screening Systems market price analysis, and Airport Baggage Screening Systems supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Airport Baggage Screening Systems market news and developments

Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market

tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

Complimentary report update to incorporate the latest available data and the impact of recent market developments.

** The updated report will be delivered within 3 working days*

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