LEONARDO AUTOMATION

# BAGGAGE HANDLING SOLUTIONS

✳ LEONARDO

**4**

ITALY | UK | USA | POLAND

**Domestic Markets**

## COMPANY PROFILE

### WORLDWIDE HIGH-TECH GROUP

Leonardo Automation is a Business Unit of Leonardo, a leading global industrial company specialised in Aerospace, Defence & Security. As a key player in major strategic programmes worldwide, Leonardo serves as a technological partner for governments, defence administrations, institutions and businesses.

With a workforce of over 60,000 employees globally, Leonardo has a significant industrial presence in Italy, United Kingdom, Poland and United States, whilst also operating across 150 countries through subsidiaries, joint ventures and shareholdings. Leonardo Automation specifically has established offices in the USA, in addition to its headquarters in Genoa, Italy.

### INNOVATION

Digital technologies are at the core of its innovation strategy, integrating them across all business areas throughout the entire value chain - from research and development to market delivery. The Leonardo's innovation ecosystem is designed to identify and adopt new technological solutions and fostering synergy across its diverse business sectors.

Leonardo Automation is actively engaged in research and development, continuously developing its product portfolio each year. The division benefits from the resources of Leonardo Labs, which focus on advanced research such as AI, Digital Twins and Advanced Simulation, Materials, Autonomous and Robotic Systems. These labs function as technology incubators supporting long-term research and development of cutting-edge digital technologies, that are integral to the company's diverse operations.

### SUSTAINABILITY

Leonardo is defining initiatives to address current challenges and promote sustainable growth, following a strategy that integrates sustainability across the entire value chain, starting from the business strategy.

This process is based on continuous dialogue with stakeholders and the definition of Sustainability Goals, where innovation, digitalization, and skills are essential for the sustainable transition and for the protection of the planet and people.

The goals, aligned with the priorities emerging from the materiality analysis, cover various dimensions – governance, climate and environmental commitment, social impact, and digitalization – and are accompanied by specific targets and monitoring KPIs for each area.

# LEONARDO AS SYSTEM INTEGRATOR

## YOUR CHOICE FOR ALL YOUR BAGGAGE HANDLING NEEDS

LEONARDO COMBINES DECADES OF SORTING KNOWLEDGE WITH INNOVATIVE TECHNOLOGIES

- **Expertise and Experience:** Leonardo brings specialised knowledge and extensive experience in designing, implementing, and optimising baggage processing systems, ensuring solutions are tailored to meet specific operational requirements and industry standards

- **Customised Solutions:** With over 25 years of experience in Baggage Handling Systems (BHS) and a global presence, Leonardo is a leading provider of innovative, efficient, and secure baggage processing solutions for airports worldwide

- **AI and Advanced Technologies:** Leveraging state-of-the-art technology, Leonardo integrates innovations in sorting technology, RFID integration, and optical character recognition (OCR), enhancing the efficiency and accuracy of baggage processing operations

- **High Efficiency:** Leonardo's high-speed MBHS® cross-belt sorter, conveyors, and diverters optimise baggage flow, reducing mishandling, delays, and operational costs

- **High Accuracy:** Our solutions ensure gentle handling of all baggage types, including irregularly shaped or high-friction bags, reducing damage and increasing reliability

- **Scalability:** Leonardo's modular systems are designed to grow with airport demands, supporting increased baggage volumes and adapting to future operational needs

- **Seamless Integration:** Leonardo's BHS solutions integrate effortlessly with airport IT infrastructures, including Airport Operational Databases (AODB), Hold Baggage Screening (HBS), and security systems, ensuring uninterrupted operations

- **Data Analytics and Insights:** Our advanced data monitoring and analytics provide valuable insights into baggage flows, performance bottlenecks, and system efficiency, allowing for informed decision-making

- **Reliability and Maintenance:** Designed for durability and efficiency, Leonardo's BHS solutions feature long-lasting components, reducing downtime and maintenance costs while ensuring maximum operational uptime

- **Regulatory Compliance:** Leonardo's solutions fully comply with global aviation security regulations, including IATA Resolution 753, which mandates end-to-end baggage tracking, enhancing security and passenger satisfaction

- **Total Cost Of Ownership (TCO):** With enhanced efficiency, reduced maintenance, and a longer system lifespan, Leonardo's BHS solutions offer a significant return on investment, reducing operational costs and improving overall airport performance

# CROSS-BELT SORTER

### HIGH RELIABILITY
MBHS® is a cross-belt sorter with exceptional reliability and supported by redundant systems and independent cell management providing over 99.9% availability and minimising disruptions in baggage processing. It features non-contact technology that reduces wear and maintenance.

A Linear Synchronous Motor (LSM) propulsion system ensures minimal noise and allows dynamic speed adjustments. Its modular design ensures scalability and seamless integration into existing airport infrastructure, safeguarding long-term investments. Advanced control systems include wireless signal transfer enhancing operational reliability with minimal maintenance .

### LOW O&M EXPENDITURE
MBHS® offers unmatched cost efficiency by combining high performance, reliability, and a non-friction propulsion system that significantly reduces maintenance interventions.

With energy-efficient operation, the system adapts its speed to baggage volume fluctuations, optimising power consumption and lowering overall costs. Capable of handling up to 7,212 bags per hour at speeds of up to 2.5 m/s, MBHS® delivers exceptional return on investment for airports seeking an optimal balance between efficiency and cost-effectiveness.

### SEAMLESS INTEGRATION AND SCALABILITY
MBHS® is designed for effortless integration into existing airport baggage handling operations. Its modular structure allows for easy expansion without significant downtime or complex reconfiguration.

As passenger traffic increases, additional modules can be incorporated to scale baggage sorting capacity seamlessly. The system is compatible with various airport software platforms, including Baggage Handling Systems (BHS), conveyor networks, and Airport Operational Databases (AODB), ensuring smooth communication across all airport processes.

This flexibility reduces installation time, minimises operational disruptions, and future-proofs investments for airport operators.

### VERSATILITY IN HANDLING
The MBHS® is engineered to handle a wide variety of baggage types and sizes, High-friction surface bags (wrapped in plastic film or containing rubber parts), Irregularly shaped bags, Protruding wheels, laces, and other non-conventional baggage items.

The cross-belt design ensures smooth, secure transfers, reducing the risk of damage and mis-sorting. Whether handling lightweight carry-ons or bulky, oversized baggage, MBHS® maintains exceptional accuracy and speed, optimising throughput while maintaining precision in baggage delivery.

In certain circumstances it is also possible to handle larger bags and weights than stated in the table below and can be reviewed on a case-by-case basis.
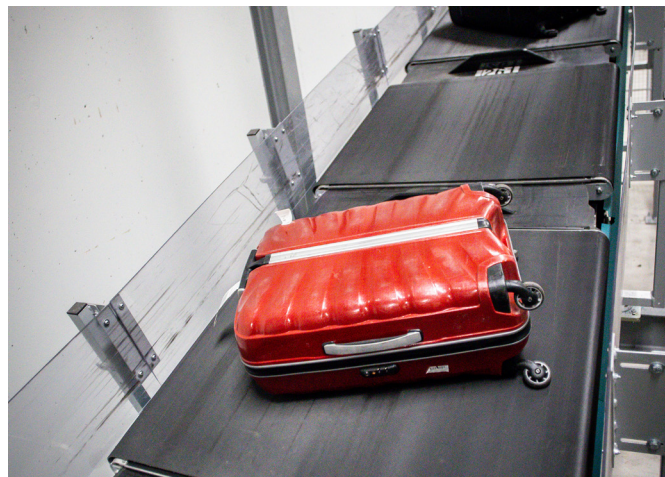
## SYSTEM SPECIFICATIONS

| Specification | MBHS® | MBHS®HD |
|---|---|---|
| Maximum Item Size [mm[1] (LxWxH) | 900 x 700 x 500 | 900 x 700 x 500 |
| Minimum Item Size [mm] (LxWxH) | 200 x 200 x 10 | 200 x 100 x 10 |
| Item weight [kg] | 0.05 to 60 | 0.05 to 60 |
| Maximum sorter speed [m/s] | Up to 2.2 | Up to 2.5 |
| Sorter Nominal Capacity [cells/h] | 6,600 | 7,212 |
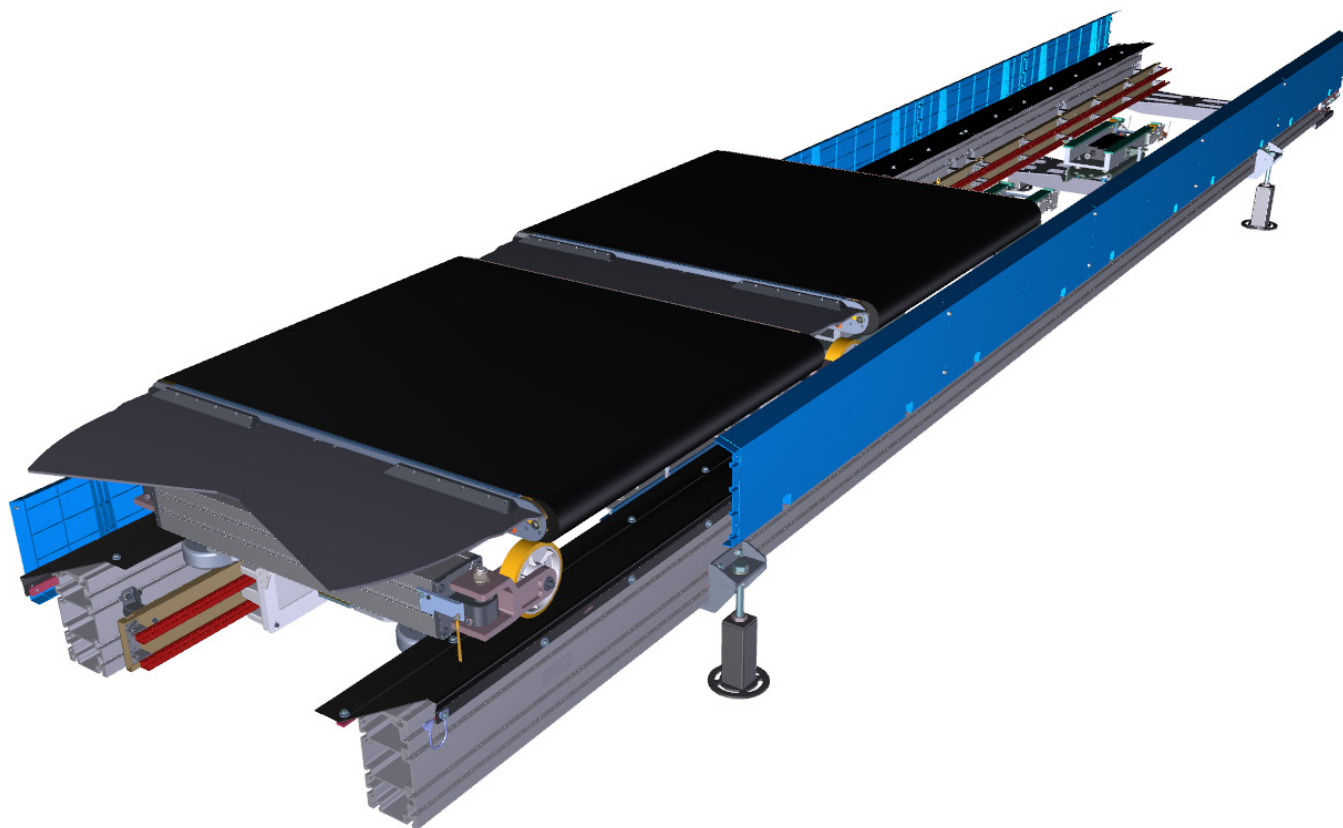


[1] Double cell loading is used to transport larger/heavier items

# SORTER INDUCTIONS

### HIGH THROUGHPUT

Designed for speed and efficiency, High-Capacity Inductions support rapid baggage handling with 30° or 45°induction lines. This capability, combined with adjustable acceleration and speed settings, maximises throughput capacity while maintaining operational stability.

### PRECISE LOADING

Merge Belts with low-friction surfaces facilitate smooth transitions between conveyors, preventing jams and maintaining high throughput. Synchronism Belts equipped with direct mounted brushless motors enable precise speed control, aligning baggage accurately for efficient sorting operations.

### ENHANCED STABILITY

The induction line system minimises baggage rotation during transfer, ensuring precise baggage alignment and stability. It features an Orientation Belt that positions baggage precisely at a 30° or 45° angle, preparing them seamlessly for sorting.

### OTHER FEATURES

- Reversibility (optional feature) to remove non-tracked items automatically

- Photo eyes to monitor baggage positioning

- For short bursts, capacity may exceed Peak capacity

## SYSTEM SPECIFICATIONS

| Induction Line | 3 Axis | 4 Axis | 5 Axis | 7 Axis |
|---|---|---|---|---|
| Maximum Item Size [mm] (LxWxH) | | 900 x 700 x 500 | | |
| Maximum Item Size [mm] [1](LxWxH) | | 200 x 200 x 10 | | |
| Maximum Item Weight [kg] | | 60 | | |
| Nominal Capacity [item/h] | 1500 | 2500 | 3000 | 3500 |
| Operational Capacity [item/h] | 1200 | 2200 | 2600 | 3000 |

[1] Double cell loading is used to transport larger/heavier items

# CONVEYORS

Leonardo provides all conveyors for the system, whether with our own suite of linear conveyors or integrating with third party equipment (such as curves).

## VERSATILE APPLICATION
Conveyors both upstream and downstream of the sorter are adaptable to a wide range of baggage types and material, making them suitable for diverse operational needs.

## SEAMLESS INTEGRATION
These conveyors integrate easily into existing systems, offering flexibility and enhancing workflow efficiency.

## EFFICIENT TRANSPORT
The system utilises a durable construction and low-friction belts, ensuring reliable and energy-efficient baggage transport throughout the sorting process.

The induction system minimises baggage rotation during transfer, ensuring precise baggage alignment and stability.



| Specification | Value |
| --- | --- |
| Conveyor Width [mm] | 1050, 1250, 1500 |
| Maximum Item Size [mm] | 1200 x 1000 x 1000 |
| Minimum Item Size [mm] | 200 x 200 x 10 |
| Maximum Item Weight [kg/m] | 60 |
| Inclinew | Up to ±15 degrees |

# HIGH SPEED CONVEYORS

Leonardo Automation High-Speed Conveyor (HSC) is the ideal solution for efficiently transporting baggage between airport terminals.

Using proven, cost-effective technology, HSC offers a reliable alternative to individual carrier systems while reducing operational complexity and costs.

### SPACE OPTIMISATION
No need for return routes or empty tray storage, making it ideal for narrow tunnels and galleries.

### GRADUAL CURVES
The High-speed conveyor is designed and installed to allow for a gradual curvature, e.g. through tunnels. This ensures speed is maintained across the full length of the line.

### SMOOTH & SECURE TRANSPORT
Bags accelerate and decelerate gradually, ensuring tracking control and gentle handling.

### FLEXIBLE & SCALABLE
Modular design allows for non-linear routes, curves, and elevation changes.

### EASY MAINTENANCE
Based on robust belt conveyor technology, HSC is simple to operate and maintain.

### ENERGY EFFICIENCY
Integrates with Leonardo's SAC Flow Manager to optimise speed and reduce energy consumption.

### OVERSIZE TRANSPORT
Option to also transport oversized baggage with high-speed conveyors.

| Specification | Value |
|---|---|
| Conveyor Width [mm] | 1050 |
| Item size LxWxH [mm] | 900 x 700 x 500 |
| Minimum Item Size [mm] | 100 x 75 x 5 |
| Item weight [kg/m] | 50 |
| Conveyor speed [m/s] | Up to 6 |
| Belt | Low friction Flame Retardant type Belt |
| Incline | Up to ±10 degrees |

# BAGGAGE CHECK-IN

A well-designed airport check-in system is essential for ensuring smooth passenger flow and efficient baggage handling. We provide various check-in options, seamlessly integrating them into our baggage sorting systems, reducing congestion, and enhancing the passenger experience.

We integrate a range of check-in solutions tailored to meet the specific operational needs of any airport.

These systems ensure secure, efficient, and hassle-free operations. Designed for scalability and future-proofing, our solutions support evolving passenger expectations and operational demands, making baggage handling smarter, faster, and more reliable.

Check-in options:

### COUNTER CHECK-IN
Standard staffed check-in counters where airline agents assist passengers, ensuring a personal touch while handling baggage directly into the sorting system

### SELF-SERVICE KIOSKS
Fully automated kiosks allowing passengers to check in, print boarding passes, and tag baggage independently, reducing wait times and enhancing efficiency

### SELF-BAG DROP SYSTEMS
Automated bag drop stations streamline baggage check-in, eliminating queues and integrating seamlessly into the baggage handling system for real-time processing

# MAKE-UP AND RECLAIM CAROUSELS

### HIGH-CAPACITY, SAFE & RELIABLE OPERATION
Leonardo's flat and inclined plate carousels are designed to handle large volumes of baggage with smooth, continuous movement. The automatic friction-drive system ensures safe, quiet, and reliable operation, while the overlapping plate design prevents baggage jams and reduces wear.

### CUSTOMISABLE & SPACE-EFFICIENT DESIGN
Constructed with a pickled steel frame, the carousel's modular elements can be combined to create custom configurations, maximising space efficiency. The compact design is ideal for airports with limited space, and carousels can be adapted for single or multiple baggage feeds.

### EASY MAINTENANCE
A quick-release system allows for the removal and replacement of internal components without special tools, minimising downtime. The modular design supports fast maintenance and easy reconfiguration to accommodate airport layout changes.

### ENERGY-EFFICIENT & FLEXIBLE OPERATION
Carousels are motorised to handle maximum capacity and speed requirements, ensuring efficient baggage transport. The friction-drive mechanism reduces energy consumption, while clockwise or counterclockwise travel options provide flexibility to meet operational needs.

### DURABLE & PASSENGER-FRIENDLY MATERIALS
The fireproof PVC-coated plates are resistant to abrasion, weathering, and ageing, ensuring a long lifespan. The stainless steel or painted steel body enhances durability while maintaining a sleek and professional appearance in both departure and arrival areas.

| Specification | Flat Carousel | Inclined Carousel |
|---|---|---|
| Conveyor Width [mm] | 1150 | 1200 |
| Maximum Item Size [mm] | 900 x 1000 x 450 | 900 x 1000 x 450 |
| Minimum Item Size [mm] | 300 x 200 x 100 | 300 x 200 x 100 |
| Maximum Item Weight [kg/m] | 55 | 55 |
| Maximum Speed [m/s] | Up to 0,8 | Up to 0,5 |

# SLIDES AND CHUTES

## SPACE EFFICIENCY
Chutes are designed to be robust and fill a small floor area.

Due to the unique dynamic ejection from the sorter that enables precise baggage handling, the mouth of the chute can be narrower, compared to gravity based sorters, maximising space utilisation in sorting facilities with limited footprint.

## LOGICAL EJECTION
Different baggage trajectories are possible within one chute as the sorter relies on logical position of baggage and not on mechanical actuation.

This allows the chute to be filled across its full width, increasing chute buffer capacity. It also allows quick reconfiguration of chutes, allowing expansion and changes to chutes dependant on operational requirements.

## GENTLE HANDLING
The sorter offers customisable trajectories for baggage discharge, tailored to specific operational requirements such as baggage characteristics and efficient chute filling.

Baggage are controlled throughout the chute, to ensure safety and gentle handling.

## VERSATILE CONFIGURATIONS
Multiple discharge options are available, including to belt conveyors, straight chutes and spiral chutes, providing flexibility in sorting operations.

The adaptability of chutes allows for custom configurations to suit different airport layouts and operational needs, for example, spiral chutes are particularly effective for handling baggage gently while maximising vertical space in multi-level facilities.

## ERGONOMIC DESIGN
Chutes feature an ergonomic design that ensures efficient and safe handling of baggage to the end of the chute, optimising operational workflow and safety protocols, whist considering maintenance and accessibility.

The ejection to a chute minimises baggage rotation during transfer, ensuring precise bag alignment and stability. This can be coupled with a Vacuum Lifter to aid safe handling of heavy Baggage.
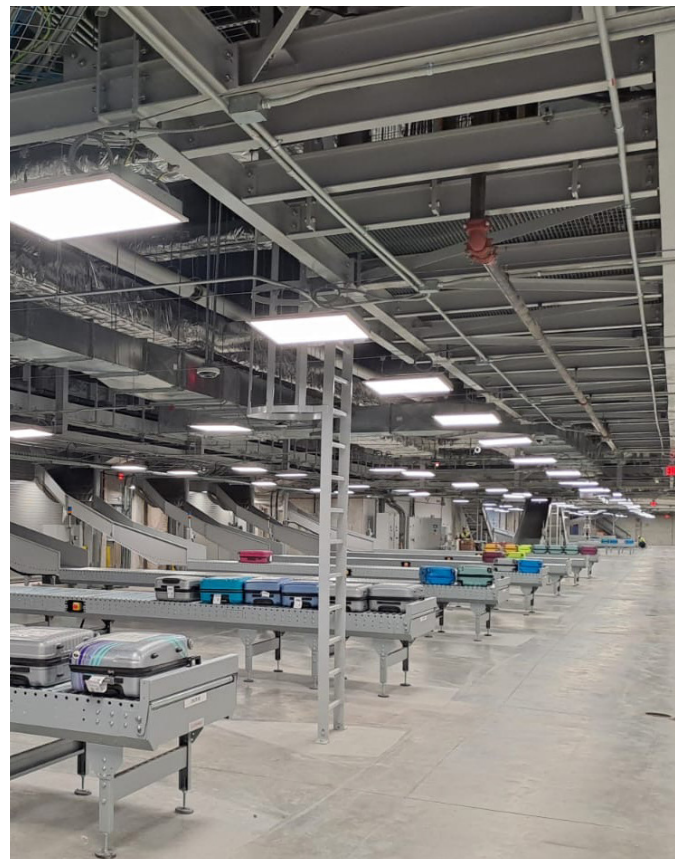
# SPECIAL EQUIPMENT

There are many different types of equipment that can be integrated into a baggage handling system. Leonardo can help integrate to your required brand of hold baggage screening machine or system and Leonardo can manage the logic. We are also able to pick the best equipment for your need and have expertise integrating these, into complex systems, to provide you with the best solution. Below are some examples:



## HOLD BAGGAGE SCREENING

Hold baggage screening (HBS) is a critical security process, ensuring all bags are cleared before loading. Integrated with state-of-the-art X-ray and CT scanning technology, it detects prohibited and hazardous items dynamically while maintaining fast throughput. Designed for seamless integration into baggage handling systems, these screening solutions provide high accuracy and regulatory compliance, ensuring safe and efficient operations. With the security of air transportation being the top priority of all airport authorities and airlines, Leonardo paid particular attention to the design of its solutions for the integration of the last generation baggage screening machines (Standard 3). The design of the layouts of baggage handling systems always keeps into account both the requirements for the security related "waiting times" and the needs for a fast flow of the "clean" bags, in order to achieve the highest possible throughput with the maximum-security level.

## EARLY BAGGAGE STORAGE

Lane-based early baggage storage systems (EBS) provide flexible and cost-effective temporary storage for checked baggage before departure. Using dedicated conveyor lanes, bags are sorted and held until needed, ensuring quick retrieval and smooth loading. This system is ideal for medium-to-large airports, offering scalability, easy integration, and low maintenance, while improving baggage flow management and departure efficiency. In addition, Leonardo has the capability to choose and integrate other Automated Storage and Retrieval System (ASRS) based early baggage storage, based on client requirements.
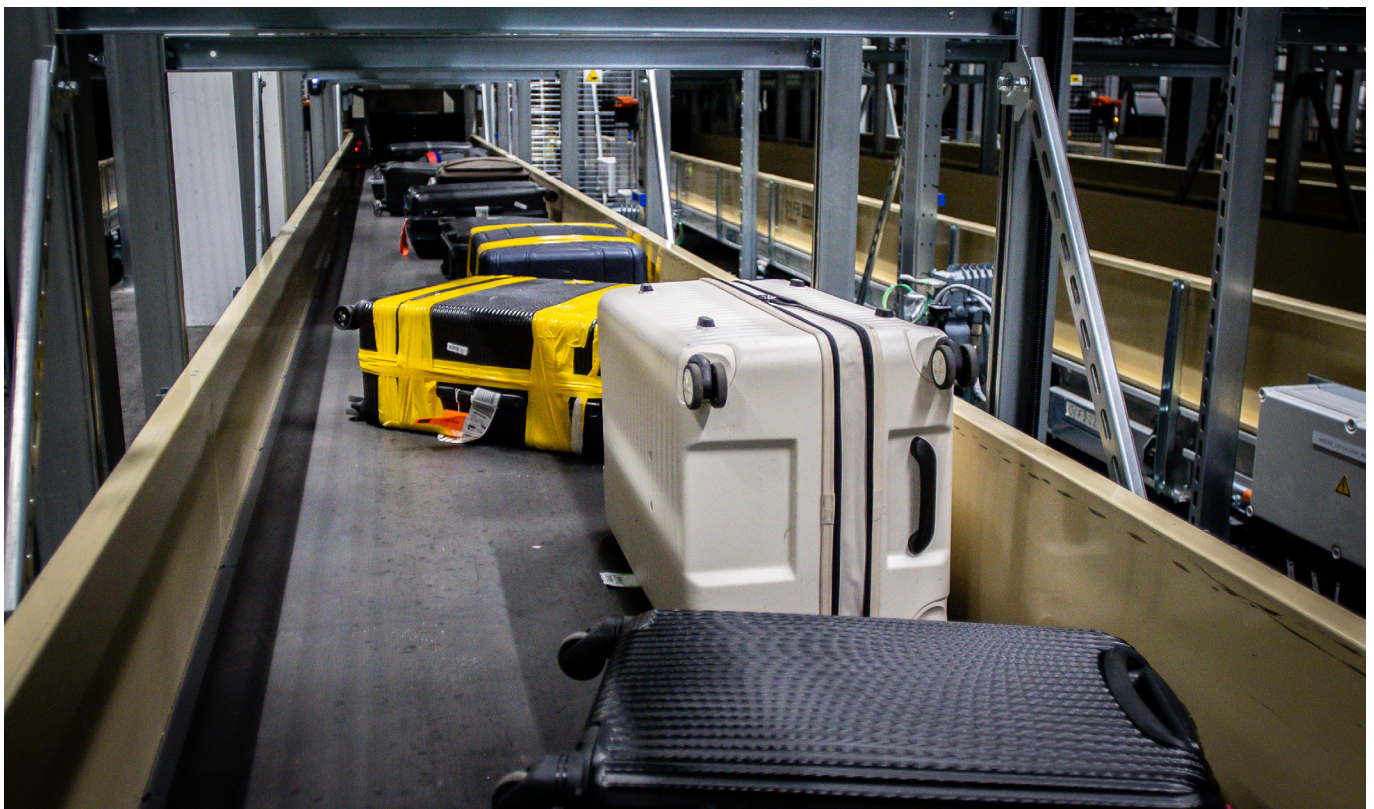
# BAGGAGE IDENTIFICATION

### OCR BAGGAGE TAG READER
Leonardo's OCR Baggage Tag Reader enhances baggage identification by reading all information on baggage tags, including barcodes, flight numbers, and destination codes.
This solution addresses common baggage mishandling issues, ensuring seamless transfer operations.

- **Direct OCR Reading:** Extracts all tag details

- **Improved Sorting Accuracy:** Uses flight and destination data when BSM is missing

- **Seamless Integration:** Requires no modifications to baggage tagging systems

- **Reduced Manual Coding:** Minimises operational costs and human error

### MORPHOLOGIC ANALYSER
BagCheck AI, Leonardo's proprietary AI-powered vision system, checks baggage is properly positioned and conveyable through the sorting systems. By detecting irregularly shaped, oversized, or misplaced baggage, it enables logical decisions to be taken by the system, enhancing efficiency and minimising disruptions.

- **AI-Driven Analysis:** Detects bag positioning, protruding parts, missing wheels, and unstable shapes

- **Real-Time Adjustments:** Identifies issues before sorting, reducing jams

- **Baggage Tracking Enhancement:** Provides data for improved baggage flow and security

- **Operational Insights:** Generates KPIs on baggage quality and system performance

### RFID
Leonardo's RFID-ABT® detection station integrates RFID and barcode technologies to improve baggage tracking, reduces manual handling, and enhances security.

- **High Accuracy:** Ensures precise baggage identification and tracking.

- **Faster Processing:** Reduces manual intervention, saving time and costs.

- **Improved Security:** Minimises unchecked baggage handling.

- **Global Tracking Potential:** Enables seamless inter-airport tracking.

# EASY AIRPORT SOFTWARE SUITE

Leonardo's EasyAirport® is an advanced Sort Allocation Computer (SAC) Solution for Baggage Handling Systems (BHS), designed in compliance with IATA Recommended Practice 1800. It optimises baggage handling for outbound, transfer, and inbound bags, ensuring seamless operations through intelligent routing, real-time adaptability, and full integration with airport IT infrastructures.

Built on a modular and scalable platform, EasyAirport® provides real-time data tracking, diagnostics, and reporting, giving operators full visibility and control. It interfaces with external airport control systems (PLCs, SCADA) and adheres to standard communication protocols, ensuring compatibility with global airport infrastructures. Designed entirely by Leonardo, EasyAirport® delivers a comprehensive, turnkey baggage handling solution, maximising efficiency, accuracy, and reliability in airport operations.

- **Optimised Baggage Routing**: Dynamically assigns bags to the most efficient paths, reducing transfer times and preventing congestion

- **Seamless System Integration**: Connects with check-in systems, security screening, baggage sorters, and airport monitoring platforms for uninterrupted operations

- **High Accuracy & Reliability**: Advanced algorithms minimise misrouted baggage, enhancing passenger satisfaction

- **Real-Time Monitoring & Adaptability**: Continuously adjusts to changing airport conditions, optimising baggage flow based on flight schedules, delays, and system performance

- **Scalable & Future-Ready**: Supports airport expansion and integrates easily with upgrades or new technologies
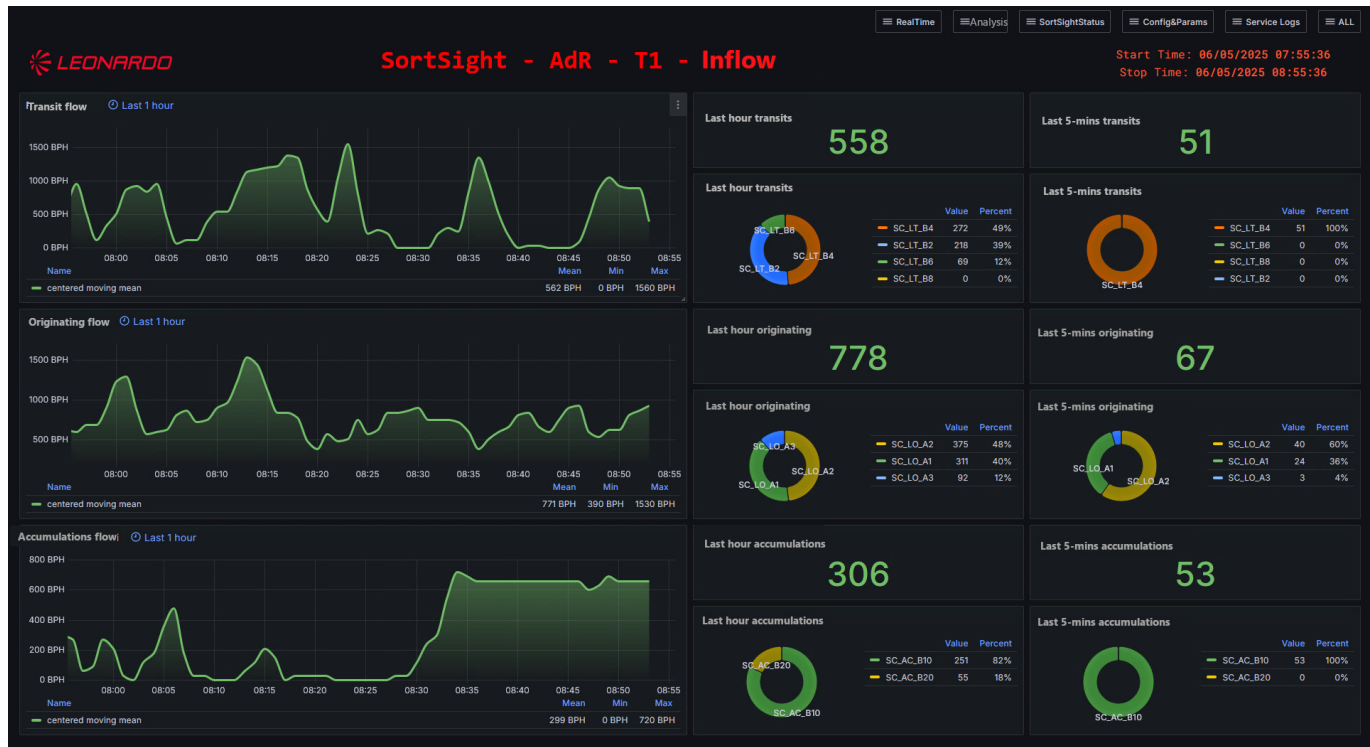
## SORTSIGHT

Leonardo's SortSight is an advanced analytics platform that provides real-time monitoring, diagnostics, and historical analysis for airport baggage handling systems. It simplifies system validation, enhances maintenance, and enables data-driven optimisations.

- **Comprehensive System Monitoring:** Aggregates real-time data from multiple devices for a unified operational view

- **Advanced Diagnostics:** Speeds up troubleshooting by providing deep insights into system performance

- **KPI Tracking & Optimisation:** Enables data-driven decisions for improved efficiency and reduced downtime

- **Customisable Dashboards:** Configurable reports and visualisations tailored to user needs

With SortSight, airports gain actionable intelligence to enhance performance, reduce inefficiencies, and drive continuous improvements in baggage handling operations.

## FLOW MANAGER

Leonardo's Flow Manager ensures uninterrupted baggage flow by dynamically optimising system operations. It intelligently balances loads across sorting machines, conveyors, and security lines, preventing bottlenecks and ensuring smooth operations even during peak hours.

**Optimised Load Management:** Distributes baggage across multiple sorters and conveyors to prevent overload.

- **Energy Efficiency:** Reduces active lines during low-traffic periods, lowering operational costs

- **Failure Resilience:** Automatically redirects baggage in case of system malfunctions

- **Real-Time Decision Making:** Continuously adjusts routing based on live data from SCADA and field sensors

By treating all baggage equally and optimising routes based on real-time system loads, Flow Manager enhances efficiency and reliability, ensuring seamless airport operations in all conditions.

# AFTER SALES SERVICES

**RELIABLE AND TRUSTED TECHNOLOGICAL PARTNER**
Leonardo is your ideal partner on the path to digitalisation and innovation. With a customer-oriented approach, we ensure your needs are at the forefront of our solutions.

**CUSTOMER-CENTRIC APPROACH**
We prioritise your requirements through a dedicated sales structure and a specialised help desk. Our team is committed to providing exceptional support tailored to your specific needs.

**GLOBAL EXPERTISE**
Our highly qualified team, located across the world, bring extensive experience in Operations and Maintenance. This global presence ensures that we can support you effectively, no matter where you are.

**COMPREHENSIVE LIFECYCLE SUPPORT**
Leonardo Automation is with you every step of the way. From the initial implementation to ongoing maintenance and upgrades, we ensure that your systems operate smoothly and efficiently throughout their entire lifecycle. We also offer equipment upgrades and revamps to enhance performance, extend lifespan, and integrate the latest technology, such as PLC's. Our solutions keep your systems robust, reliable, and optimised for evolving needs.

**TURNKEY SOLUTIONS**
Leonardo Automation offers comprehensive turnkey solutions that encompass a full range of after-sales technical support. Our dedicated staff, advanced technological management suites, and extensive experience across various environments, including third-party systems, ensure exceptional service delivery.

With years of expertise, Leonardo Automation provides a complete spectrum of operations and maintenance turnkey solutions. We pride ourselves on our ability to offer customisable and modular maintenance services, tailored to meet the unique needs and expectations of our customers. Our commitment is to deliver tailored solutions that enhance operational efficiency and reliability.

**MAINTENANCE OPTIONS**
Focusing on our customer's satisfaction, Leonardo Automations maintenance engineering proposition can be divided into:

• **Maintenance Engineering and Customer Support:**

• **Spare parts & Logistics management**

• **Remote support**

• **On site assistance**

• **Technical Training**

• **Equipment upgrade**

• **System Health:**

> Ordinary Maintenance
> Corrective Maintenance
> System Modernisation
> Operational Support

## SUPPLY CHAIN

### HOW WE OPERATE
Leonardo Group's activities are based on an interconnected supply chain dedicated to innovation to which international suppliers and highly specialised small and medium-sized enterprises contribute.

Leonardo Automation has developed a meticulous internal process to qualify suppliers for inclusion in the Register:

- **Pre-Qualification by Leonardo Group: Ethical, legal, financial, and turnover dependency requirements are evaluated centrally**

- **Qualification by Automation BU: managed directly by the Automation Business Unit, focusing on:**

    > **BU Procurement Control**: Ensuring procurement meets our stringent criteria
    > **Quality and HSE Control**: Assessing quality and Health, Safety, and Environmental standards
    > **Additional evaluations**: Gathering inputs from other functions involved, depending on the supplier category

### DEDICATED WAREHOUSE
Leonardo Automation boasts a large, dedicated warehouse space to accommodate more than 20,000 components. Leonardo develops, implements and manages solutions to make the supply chain lean, agile and demand oriented. In this way, it is able to anticipate customer needs and reduce delivery times.

### OBSOLESCENCE
Leonardo ensures the long-term reliability of airport sortation systems by proactively managing component availability throughout their lifecycle. We continuously monitor the supply chain to anticipate component obsolescence, such as motors or drives that are to be no longer manufactured.

When a part becomes obsolescent, we identify and provide alternative solutions, ensuring seamless integration with existing systems. Our strategic supplier partnerships, stock management, and upgrade pathways guarantee that airports receive timely replacements and sustainable maintenance options.

With Leonardo, airports can trust in continuous support, minimised downtime, and future-proofed operations, keeping their baggage handling systems efficient for years to come.

POST & COURIERS AND AIRPORTS
POST & COURIERS
AIRPORTS

## OUR MARKETS

### BAGGAGE HANDLING SOLUTIONS

Leonardo Automation delivers reliable, efficient, and comprehensive solutions, both hardware and software, for implementing baggage handling systems in airports. Our offerings cover the entire process, from check-in and security checks to the automatic sorting of bags, their delivery to make-up destinations, and baggage claim carousels for arriving flights. The solution includes Automatic Tag Readers (ATR) with OCR capabilities.
With over 25 years of experience and a global presence in the airport sector, Leonardo is a leading player in the baggage handling systems market. Our innovative range of baggage handling products, combined with deep expertise in airport processes, makes Leonardo the ideal partner for airport operators seeking to enhance their baggage handling operations. Leonardo's solutions are designed to optimize airport operations, reduce turnaround times, and enhance the passenger experience. Our expertise makes us the trusted partner for airport operators looking to upgrade their baggage handling capabilities.

### LOGISTICS SOLUTIONS

Leonardo provides a wide range of multi-functional integrated solutions for all kinds of postal objects (flats, parcels and packets). Any solution integrates advanced market-proven core proprietary technologies, aiming to satisfy increasing Courier, Postal and Airports Operators requirements with competitive costs and quickly.
All products are developed to satisfy specific operating requirements. The solutions offered by Leonardo are always tailor-made to meet the specific customer business and operational requirements, managing in parallel both inbound/outbound processes and information processes.

### WHY CHOOSE LEONARDO AUTOMATION

- **25+ years of Expertise**: Leonardo Automation is a trusted partner in airport and logistics operations worldwide.

- **Tailored Solutions**: Custom-built to fit your specific operational and business needs.

- **Innovative and Reliable Technology Partner**: Leading-edge systems that integrate seamlessly with your existing infrastructure.

- **Global Presence**: delivering reliable, high-performance solutions across the world.

- **Financial Strength**: Thanks to being part of the Leonardo Group, one of the world's leading companies in aerospace, defense, and security, Leonardo Automation benefits from exceptional financial stability. This strong backing ensures the reliability and longevity of our solutions.

- **MBHS® Cross Belt Sorter – Proven & Sustainable**: Our MBHS Cross Belt Sorter technology is a proven solution, widely recognized for its reliability and high performance. It's engineered for efficiency, scalability, and sustainability, making it an ideal choice for your operations.

# OUR ESG COMMITMENT

## SUSTAINABILITY

The Sustainability Plan translates Leonardo Group's vision into measurable projects and initiatives, using a data-driven approach with specific ESG KPIs to track progress toward sustainability targets. The 2025-2029 Plan, aligned with the Group's Industrial Plan, focuses on high-impact projects across the value chain, prioritising eco-design, digital twin technology, and decarbonisation.

As part of its strategic positioning, Leonardo Group is increasingly engaged in the energy and digital transition, developing solutions that enhance security for communities, institutions, and infrastructure. This commitment extends to airports, which are striving for Net Zero 2030, requiring energy-efficient baggage handling solutions.

Leonardo Group's systems support Net Zero 2030 by optimising energy use, reducing emissions, and using eco-friendly materials:

• **Low-Energy Motors & Drives** – High-efficiency motors, frictionless linear drives, and smart energy management significantly cut power consumption

• **Intelligent System Optimisation** – Real-time adjustments minimise idle times and reduce unnecessary energy use

• **Sustainable Materials & Design**:

  > **Recyclable & Low-Impact Materials** – Stainless steel, aluminium, and fire-resistant PVC ensure durability and recyclability

  > **Lightweight & Modular Construction** – Reduces material use, simplifies upgrades, extends system lifespan, and minimises waste

With adaptable conveyor systems suitable for various baggage types, Leonardo Group combines efficiency, sustainability, and innovation to help airports meet Net Zero 2030 goals while maintaining peak operational performance.

## DIVERSITY AND INCLUSION

• We prioritise Diversity and Inclusion with targeted

• initiatives to enhance STEM disciplines

• We actively fight workplace harassment

• We collaborate with universities to sponsor engineering courses, promoting educational opportunities in STEM

## WELFARE INITIATIVES

Leonardo Group is dedicated to enhancing the well-being of its employees and the communities it serves through a range of welfare initiatives. These include comprehensive health insurance, fitness programs, mental health support, and flexible working options to promote work-life balance. The company also invests in career development through skill-building workshops, leadership programs, and educational scholarships. Beyond employee welfare, Leonardo Group is committed to corporate social responsibility, supporting sustainability efforts, volunteering, and local community projects. Together, these initiatives reflect the company's commitment to people, progress, and positive social impact.

## HUMAN RIGHTS

Leonardo commits to carry out its activities in full accordance with the human rights set out in the Group's Code of Ethics and Charter of Values, inspired by the principles of the United Nations Universal Declaration, the International Labour Organisation Conventions, the OECD Guidelines, the Charter of Fundamental Rights of the European Union and other applicable regulations. In particular, Leonardo Automation's engineering design activities are focused on sustainability in terms of:

• **Carbon Emissions Reduction**: Implementing innovative designs to lower carbon footprints

• **Component Reduction**: Minimising the use of electrical and electronic components

• **Energy Efficiency**: Reducing energy consumption while maintaining high performance standards

• **Health and Safety**: We uphold the highest standards of health and safety for our internal employees, suppliers, and customers during project delivery

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