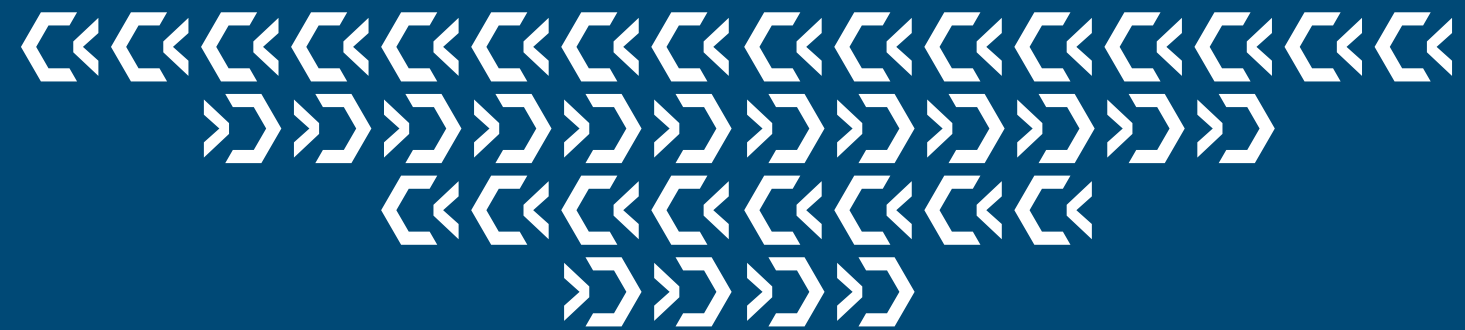




**WE Engineer.**  
From Challenge to Progress.

**AIRPORT  
SOLUTIONS**

[iesysgroup.com](http://iesysgroup.com)



From Challenge to Progress. **WE Engineer.**



## Who we are



**From Challenge to Progress. WE Engineer.** We provide complete engineering solutions for process automation in **transport infrastructure** and the **industrial sector**.

Progress begins where challenges arise. We see every project as an opportunity to **rethink, refine and reimagine** how technology can work smarter, safer and more efficiently.

We are a turnkey solutions provider **specialized in complex airport projects**. We focus on automating, securing and optimizing airport infrastructure, **fully compliant with the highest international standards**.

Our aim is to **accelerate digital transformation in airports** through advanced, reliable and energy efficient technologies customized for each client—from regional airports to major international hubs.

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# Integrated Solutions for Modern Airports

In a world that’s more connected than ever, airports need smart, secure and efficient technologies especially when it comes to their Baggage Handling Systems (BHS), a critical backbone of airport operations.

At IESYS, we turn this demand into reality with tailored solutions that optimize **every stage of airport operations**—from baggage handling to access control and passenger security.

IESYS delivers turnkey airport solutions that automate, secure and optimize operations. From **regional airports to major international hubs**, we modernize infrastructure, streamline baggage handling and **enhance the passenger experience**, all while ensuring regulatory compliance and operational continuity. With scalable systems tailored to local and international standards, **our expertise in automation, baggage handling and integrated security** supports airports, adapting as their needs evolve.



**Scalable systems  
tailored to local  
and international  
standards**



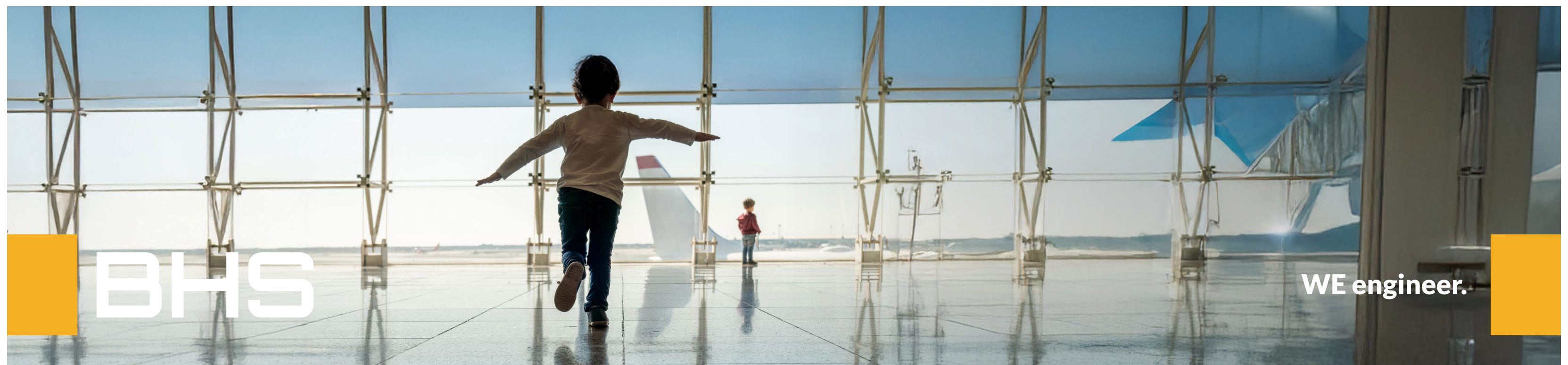
## Baggage Handling Systems(BHS)

-  Check-in
-  Security screening (CBIS, CBRA, OSR)
-  Automated baggage sorting
-  Make-up
-  Reclaim
-  SCADA software and control

## Passenger flow control solutions

-  Automated gates for pre-security and boarding processes
-  Self check-in and self bag-drop
-  Automated border control gates
-  Access control





# BHS

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## Baggage Handling Systems



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### Check-in

- Our BHS integrates check-in stations, enabling passengers to quickly dispatch their baggage.
- Seamless introduction of baggage into the conveyor system while ensuring precise tracking of each item.
- Supports integration with third-party systems to ensure operational fluidity.

### Baggage Reclaim

- Incoming baggage is routed to reclaim areas equipped with carousel belts and special handling zones.
- Rapid identification and prioritization mechanisms ensure fast and correct handling of incoming baggage.

### Make-up for Baggage Loading

- Baggage is grouped by flight in the make-up area.
- Customized solutions: manual, semi-automated or fully automated.
- Enables direct loading into containers (ULDs) or carts, with real-time monitoring of baggage flow.

### Sorting

- BHS directs baggage to appropriate make-up area based on flight and operational criteria.
- Flexible configurations include diverters, carousels, or linear/circular sorters tailored to the airport layout.

Security, Safety  
and Intelligent  
Control at Every  
Step of Baggage  
Flow



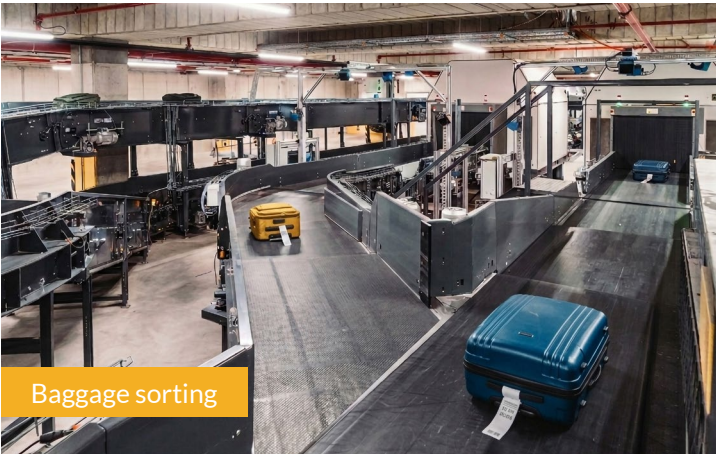
Baggage reclaim



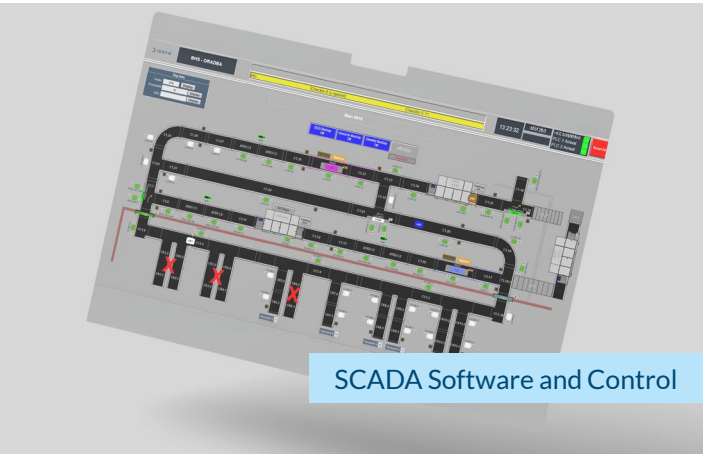
Check-in

Security Screening

- CBIS (Checked Baggage Inspection System) utilizes CT/X-ray scanning equipment and runs automated classification algorithms.
- Suspicious baggage is redirected to the CBRA (Checked Baggage Reconciliation Area) for additional inspection.
- Monitoring is conducted from the OSR (Operator Screening Room), where security personnel review scanned images and make decisions regarding pending baggages.
- All stages are automated and integrated within the SCADA system, allowing comprehensive control and traceability.



Baggage sorting



SCADA Software and Control

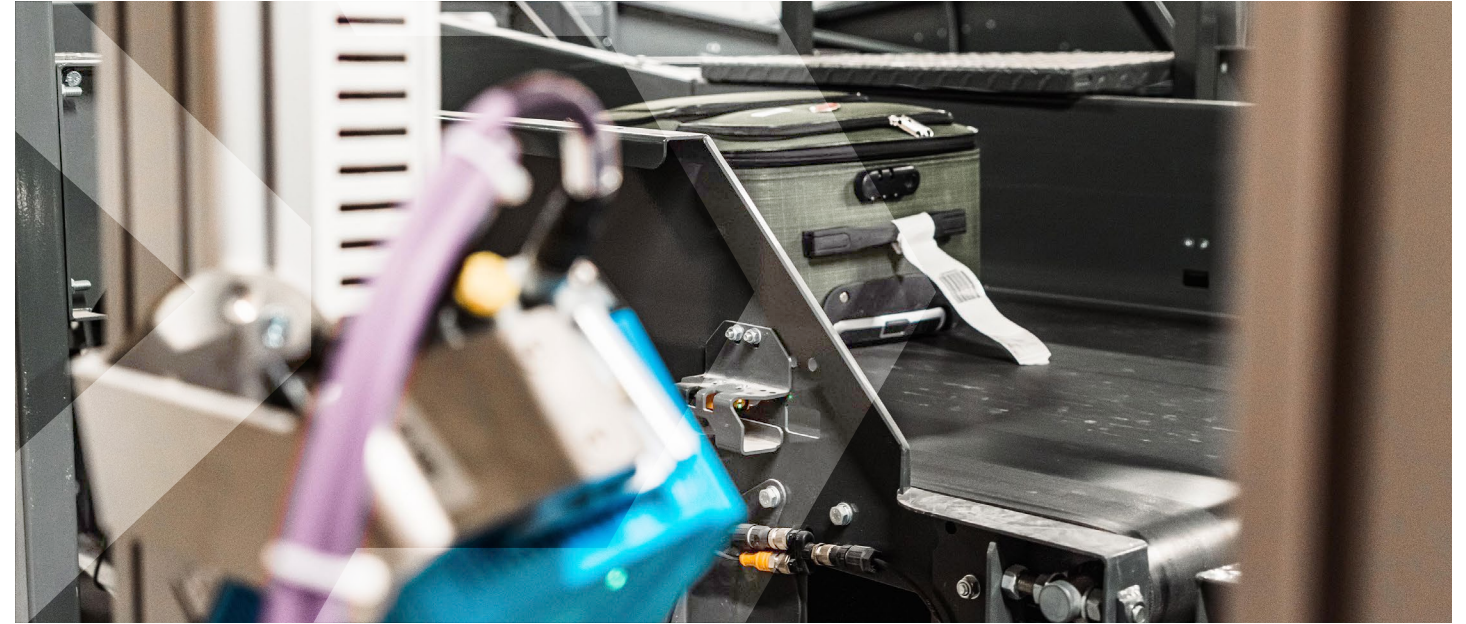
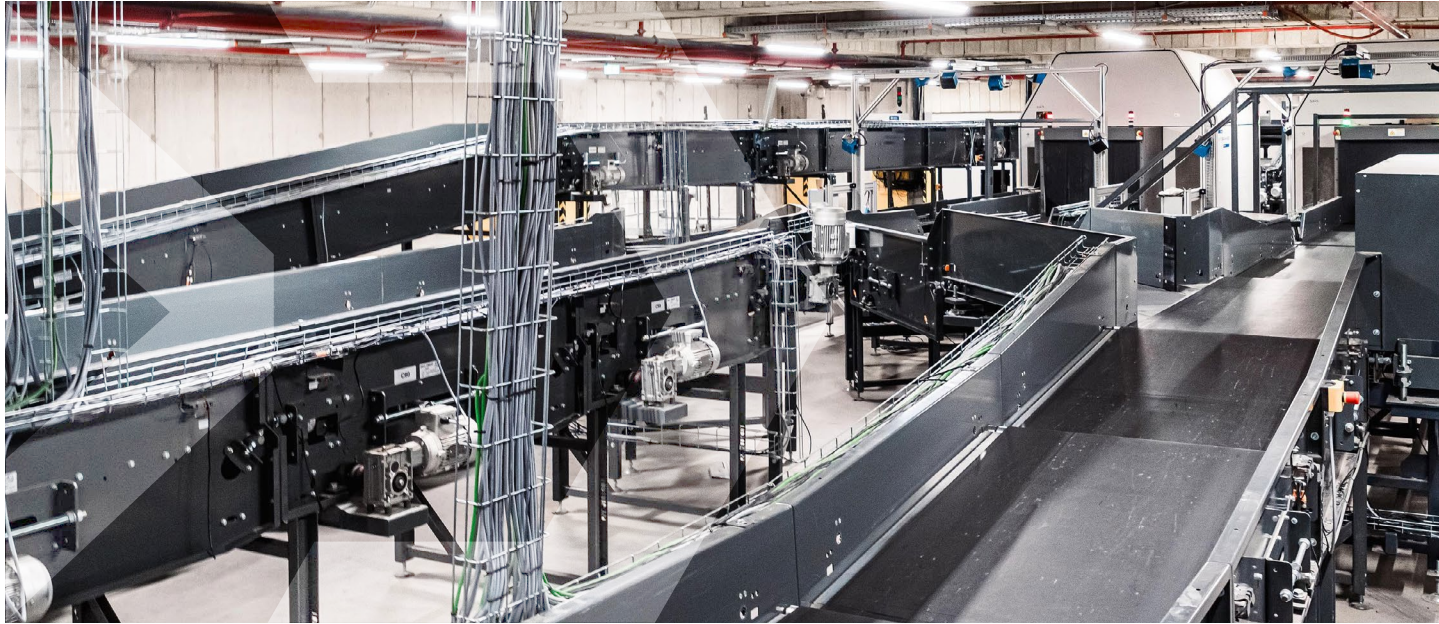


Security Screening



SCADA Software and Control Systems

- Our SCADA platform provides full control and real-time monitoring of the entire BHS.
- Features include maintenance alarms, detailed reporting and user-friendly operator interfaces.
- Enables complete baggage traceability with integration options into airport systems (AODB, BRS, FIDS, DCS, etc.).



# Operational Capabilities and Technical Performance

## Seamless operation, smarter automation

Our Baggage Handling Systems meet the growing demands of modern airports, ensuring seamless operation, intelligent automation and a smooth experience for every passenger.

From check-in to claim, every bag moves securely and efficiently, keeping airports operating safely, reliably and at their best.

## Processing Capacity

Processing capacity optimized to suit airports of any size — from regional terminals to major international hubs.

Our modular systems scale effortlessly with passenger growth, adapt to layout constraints and maintain top performance even under peak loads, ensuring reliability, efficiency and continuity of operations at every stage of the baggage journey.

## Accuracy and Reliability

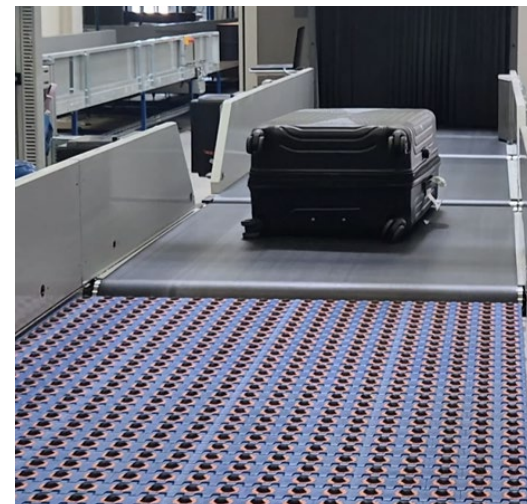
Accuracy and Reliability — sorting and tracking systems that exceed standard requirements, reducing errors and preventing lost baggage through advanced algorithms.

Real-time data analytics and intelligent control systems deliver consistent performance, enable faster decisions and ensure complete traceability across every stage of baggage handling.

## Operational Flexibility

Operational Flexibility — modular design enables rapid adaptation to fluctuating flight schedules and passenger volumes, maximizing resource utilization.

Our systems are built to scale and reconfigure with minimal downtime, supporting seasonal peaks, layout changes and evolving operational demands while maintaining optimal performance and efficiency.



## Advanced Technology & Integrated Protocols

- High Reliability & Throughput: secure and efficient baggage tracking with high-speed processing and minimal downtime.
- Energy Efficiency & Maintainability: low energy consumption, easy maintenance.
- Compliance & Standards: aligned with international regulations (TSA's PGDS).



## Operational Excellence Highlights

- Full automation of baggage logistics processes
- Fast and secure baggage handling, regardless of volume
- Reduced errors and transfer times
- Seamless integration with other airport systems (check-in, boarding, security)
- Energy-efficient operations and easy maintenance
- Compliance with international safety and security standards

- System Communication & Integration: industrial-grade network communication with high availability supporting integration with third-party airport and airline systems.
- Real-Time Monitoring & Cybersecurity: custom SCADA system providing real-time control, full traceability, advanced cybersecurity measures and scalable architectures.
- High availability architecture: hot redundancy for control and SCADA systems.
- Scalability & Future-Readiness: modular architecture designed to support airport expansion, new technologies and evolving passenger flows.
- Predictive Maintenance & Diagnostics: smart analytics for early fault detection, performance optimization and reduced downtime.





# Sustainability & Innovation for Smart Airports

Driving energy efficiency, resource optimization and intelligent automation to create greener, smarter and more resilient airport operations.

Through advanced engineering and sustainable design, we help airports reduce emissions, extend system lifespan and deliver a better experience for passengers and the planet alike.

- Optimized design for minimal energy consumption
- Automation that reduces human and material resource use
- Predictive maintenance to extend equipment lifespan and reduce waste
- Modular, scalable architecture to avoid overengineering
- Environment protection compliance and alignment with industry standards
- Support for ESG goals and airport decarbonization strategies

# End-to-End Professional Services

From concept and design to installation, commissioning and long-term maintenance, ensuring every system performs flawlessly throughout its lifecycle.

- Custom technical design and system architecture
- Complete delivery, installation and implementation
- Tailored software development to meet specific requirements
- Rigorous testing and commissioning
- Technical training for client personnel
- Ongoing maintenance and technical support
- Upgrading of existing systems

**WE Engineer.**



# Why partner with us

## Global expertise

Proven track record across diverse national and international engineering projects, demonstrating consistent excellence in execution, innovation and long-term client satisfaction.

## Tailored solutions

Flexibility to match each client's unique operational needs, adapting our engineering solutions, resources and processes to ensure efficiency, reliability and long-term performance in every project.

## Technological agility

Seamless cross-platform integration for smooth process control needs, enabling unified data flow, real-time monitoring and efficient coordination across systems, platforms and industrial environments.

## Full-service support

From consulting to continuous maintenance, ensuring seamless execution, optimized performance and long-term reliability through expert engineering, proactive monitoring and assistance.

## Dedicated team

Engineers and technicians committed to innovation, combining technical excellence and forward-thinking solutions to deliver reliable performance and continuous improvement across every project.

## Commitment to excellence

Delivering beyond expectations through precision engineering, continuous improvement, and a results-driven mindset — ensuring long-term success, lasting value, and impact for every client.



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