



**True Innovation,
Real Impact.**



Brownfield

Modernization of
baggage handling systems
during live airport operations



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True Innovation, Real Impact

In the ever-evolving world of airport infrastructure, Dimark delivers more than just technology. We are a strategic partner that not only modernizes baggage handling systems (BHS) but transforms how airports operate: smarter, more efficiently, and with a deep respect for sustainability and operational continuity.

Our strength lies in our holistic approach: from consulting and risk analysis, through digital simulations, to production, implementation, and ongoing support. Every step is managed in-house, with expert teams, full quality control, and an innovation-driven mindset.

As proud **strategic partners of IATA and Gold Members of ACI EUROPE**, we are part of an elite network shaping the future of air transport. We contribute to the global airport ecosystem by sharing knowledge, co-creating standards, and delivering tangible solutions.

Every Brownfield project is more than just an upgrade: it's an opportunity to **make a real impact on passenger experience, operational safety, and airport efficiency.**

Want your infrastructure to stay ahead of the future?
Start with a partner who's helping to build it.



**Let's shape the future
of baggage handling together.**

01

Design and analysis:



■ Detailed analysis and optimization:

- We identify bottlenecks and challenges by leveraging our in-house tools (DiSCADA) which simulate and emulate the entire system, ensuring modernization objectives are met and system performance is optimized.
- We perform thorough risk analysis and derive optimum phasing plan to avoid operational disruptions to the airport operations.

Key takeaway: Enhanced operational efficiency and minimized risk.





■ Workshops and needs analysis:

- We identify critical issues and agree on the modernization objectives with the client.
- Collaborative workshops with experts in mechanics, control, and automation facilitate the development of optimal solutions.

Key takeaway: Tailored and effective solutions that mitigate the risk of errors.

■ 3D scan:

- With our in-house capabilities, we perform 3D scan on site to ensure we have accurate as-built models, even in the absence of original documentation.



02



Execution and implementation:

■ Minimizing disruptions and ensuring seamless implementation:

- We perform thorough risk management and derive the optimum phasing plan to avoid disruptions to the airport operations.
- We design our solution and perform simulation in advance using DiTWIN (Dimark Virtual Twin), ensuring a smooth implementation. Our focus is to achieve the modernization objectives, mitigate risks and improve system performance.

Key takeaway: Uninterrupted operations and ease of mind to customer.





■ Rapid implementation with DiTWIN (Dimark Virtual Twin):

- We utilize DiTWIN to integrate systems before disconnecting existing infrastructure.
- We deploy pre-tested algorithms, shortening lead-time of implementation.

Key takeaway: Significantly reduced implementation time and risk.



■ Flexible staging and advanced production:

- Through our extensive experience in performing modernization, we are capable of adapting to operational requirements in our project implementation.
- Our focus not only to meet the modernization objectives but to ensure system sustainability, improvement and more important is manage equipment obsolescence.

Key takeaway: Operational flexibility and sustainability.



■ Transparent and safe transition:

- Full process transparency with regular reports.
- Ensure risks mitigation during implementation.

Key takeaway: Complete control and operational safety performance in mind.



■ Elimination of integration risks and support provision:

- Our in-house DiTWIN tools will ensure risks mitigation prior to implementation.
- We deploy pre-tested algorithms, reducing implementation time.

Key takeaway: Significantly reduced transition lead-time and risk.



■ Accelerated implementation and automation:

- Our state-of-the-art production line and automated tools shorten lead times.

Key takeaway: Expedited project implementation.



■ Advancing sustainability goals:

- Optimized baggage flow and enhance throughput.
- Focus on system sustainability and manage equipment obsolescence.

Key takeaway: Ensure system sustainability.



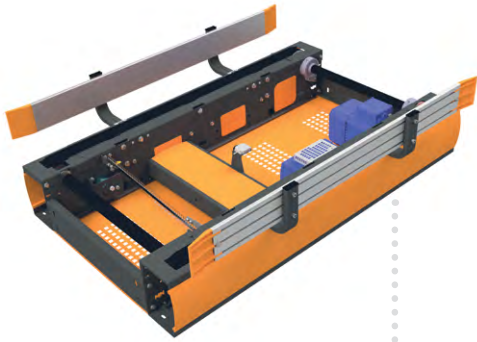
■ In-House production facilities:

- Independence and product versatility.
- Comprehensive quality control of equipment.
- European-based production.



OUR DEVICES

■ ICS LINE



Straight ICS



Curve ICS



Merge / Diverter ICS

Features & benefits:

- Individual baggage carriers
- Advanced control and visualization system
- Reduced energy consumption
- Higher sorting precision
- Optimized operational costs
- Modular design
- High system reliability
- Enhanced baggage security
- Reduced environmental footprint

■ SORTING DEVICES



**Tilt-tray
sorter**



**Cross-belt
sorter**



Vertisorter



**Horizontal
diverter**



**Dual arm
diverter**

Common features:

- Smooth baggage transfer and operation
- Adjustable conveyor height and speed
- Durable and robust construction
- Low noise level
- Easy maintenance and component replacement
- Modular and adaptable design
- High sorting rate

Shared benefits:

- Accurate and rapid baggage sorting
- Reduced errors in baggage direction
- Seamless system expansion
- Shorter implementation time
- Increased operational reliability

OUR DEVICES

■ BELT LINE

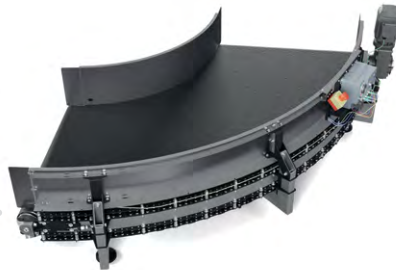
Belt conveyor



Check-in



Curve conveyor



Merge conveyor



Induction conveyor



Common features:

- Durable constructio
- Low noise level
- Low energy consumption
- High load capacity
- Easy maintenance and servicing
- Quick and effortless belt replacement
- Adjustable height and speed
- Design flexibility and customization

Shared benefits:

- Quiet and efficient operation
 - Fast servicing with minimal downtime
 - Reduced operating costs
 - Space-saving design for optimal airport layout
 - Greater comfort for staff and passengers
-

■ CAROUSELS LINE

Flat carousel



Inclined carousel



Common features:

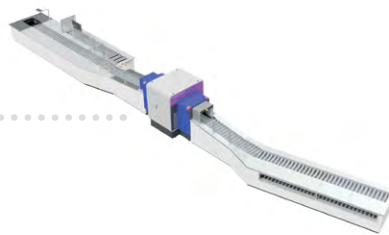
- Modular and sturdy design
- High load capacity
- Quiet operation
- Easy assembly and disassembly
- Simple baggage removal
- Lubrication-free friction drive
- Additional safety features (e.g. bumpers)

Shared benefits:

- Long service life
- High system reliability
- Safe and smooth baggage delivery
- Flexible integration into various terminal layouts

■ AUTOMATIC TRAY RETURN SYSTEM

DiLane



Common features:

- Faster and more efficient
- processes to increase passenger experience and satisfaction
- Design that optimizes space, minimizes bottlenecks and improves overall security process flow reducing congestion
- Seamless line operation reduces passenger wait times, increases capacity, and optimizes checkpoint operations.

Flexibility and Adaptability:

- Allows for easy integration into different settings.

Improved Security:

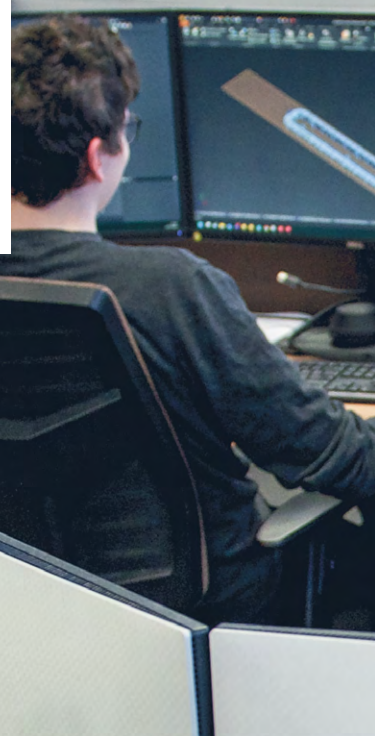
- Enhances overall security effectiveness.

Hygiene and Safety:

- Enhances safety and hygiene standards.

03

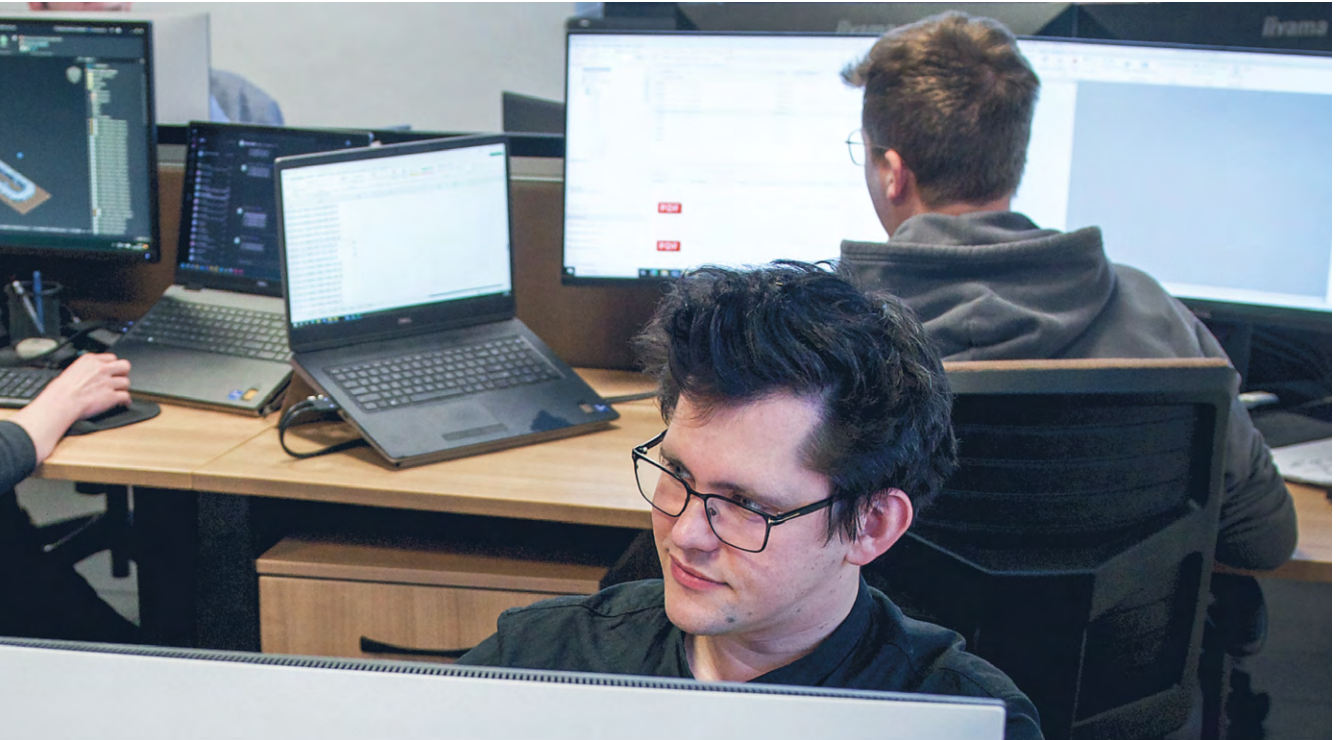
Customer Support (O&M)



■ Continuous improvement and performance optimization:

- DiTWIN enables the testing of new scenarios and system optimization.
- AI and Machine Learning algorithms predict and optimize performance.

Key takeaway: Ongoing optimization and maximized performance.



■ Scalable expansion and operational continuity:

- Our software platform supports effortless expansion and seamless integration with existing systems.
- We ensure continuous software delivery, regular updates, and expert technical support for optimal performance.

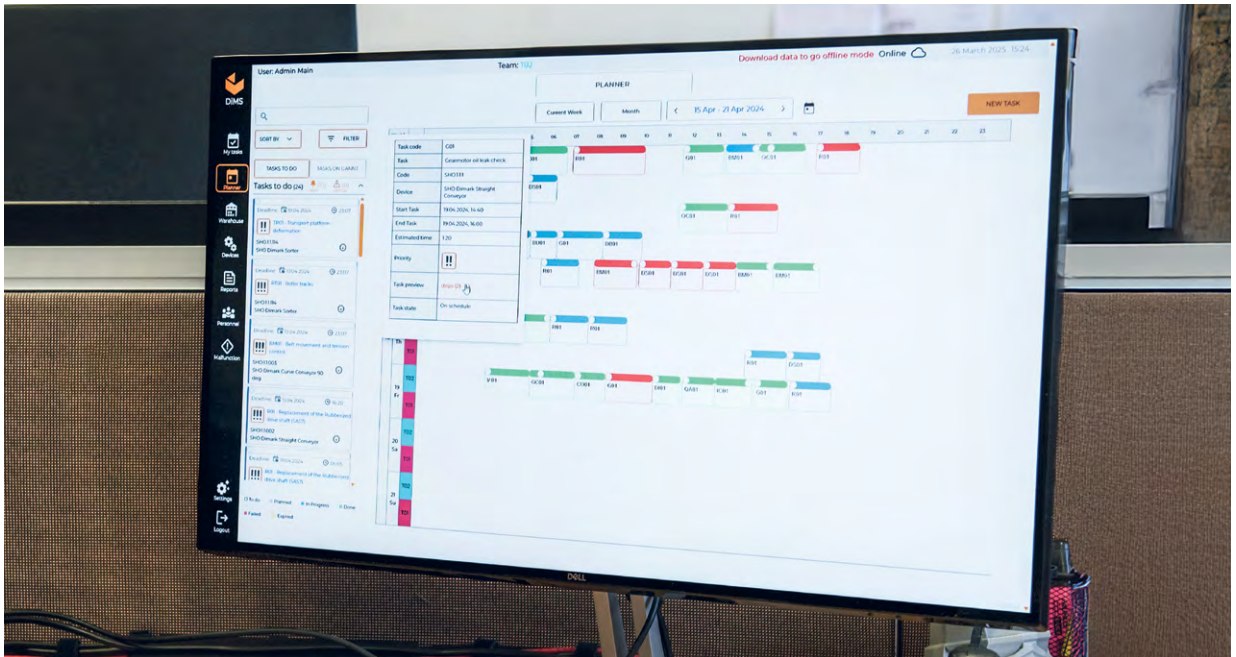
Key takeaway: Scalability and business continuity.

■ Enhanced operational efficiency and proactive support:

- Seamless system integration (Dashboard, DiSCADA, DiMS) ensures centralized monitoring and comprehensive oversight.
- 24/7 customer support, hotline, and proactive monitoring safeguard infrastructure cybersecurity and enable swift issue resolution.

Key takeaway: Maximum operational efficiency and security.





■ Optimize maintenance activities and minimize costs:

- DiMS provides advanced maintenance management, utilizing AI-powered analytics to identify potential issues before they occur.
- Predictive maintenance reduces expenses, prevents unexpected failures.
- Proactive maintenance actions and maintenance teams guidance.

Key takeaway: Reduced costs and minimized downtime.





Dimark

■ Proprietary software

Our systems, like DiSCADA and DiTWIN, are fully developed in-house, giving us full control over functionality, flexibility, and future scalability.

■ In-house manufacturing

Every component we deliver is manufactured in our own facility in Poland. This ensures top quality, reliability, and agile adaptation to project needs.

■ Innovation from the source

We don't implement ready-made tools, we create them. Backed by data, experience, and passion, we deliver innovations that truly make a difference.

HEADQUARTERS

Dimark, Zachodnia 3, Złotkowo,
62-002 Suchy Las, Poland
office@dimark.eu

www.dimark.eu