

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 sustainabilty.



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.

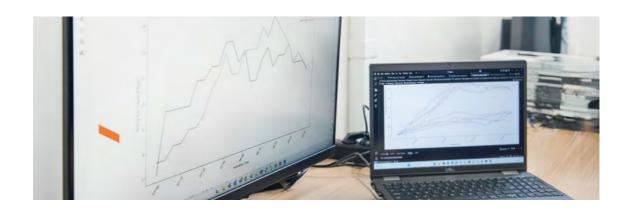
Key takeaway: Expedited project implementation.



Advancing sustainability goals:

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

Key takeaway: Ensure system sustainability.





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



OUR DEVICES

SORTING DEVICES













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









Induction conveyor



Common features:

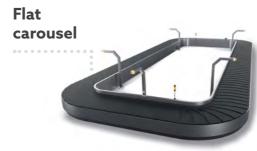
- · Durable constructio
- · Low noise level
- Low energy consumption
- High load capacity
- Easy maintenance and servicing
- Quick and effortless belt replacement
- · Adjustable height and speed
- Design flexibility and customization

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





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



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:

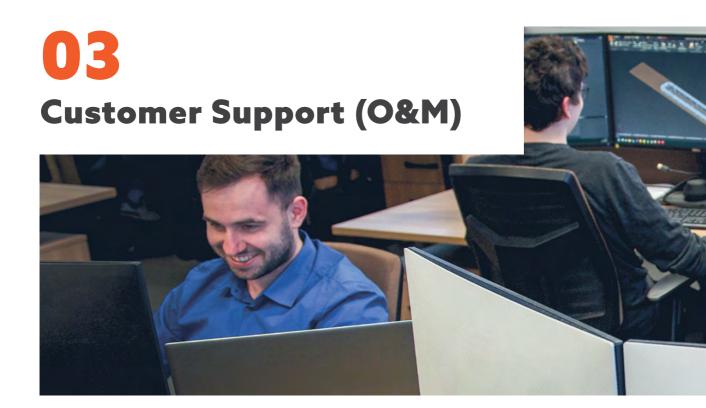
Allows for easy integration into different settings.

Improved Security:

Enhances overall security effectiveness.

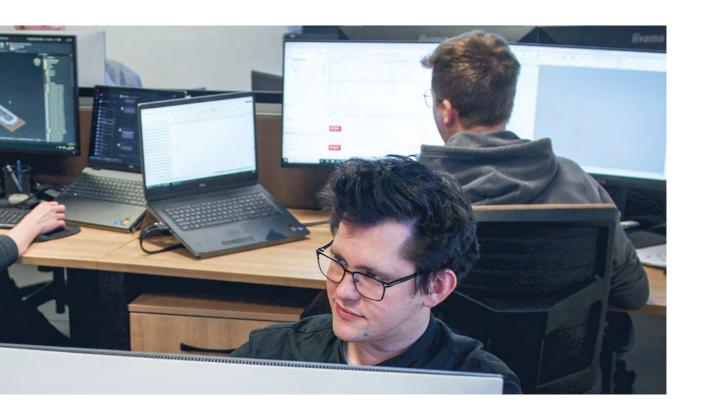
Hygiene and Safety:

Enhances safety and hygiene standards.



- Continuous improvement and performance optimization:
- DiTWIN enables the testing of new scenarios and system optimization.
- Al 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.

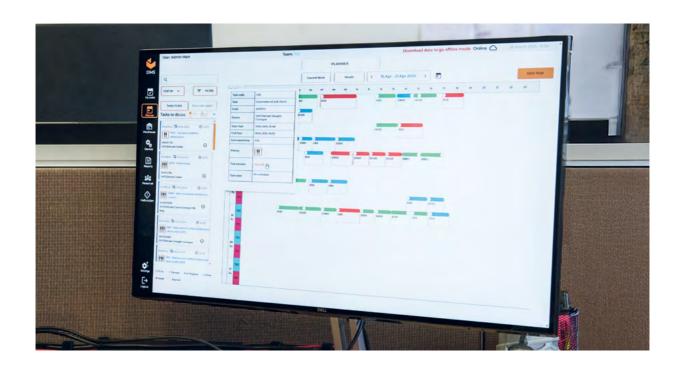
Key takeaway: Scalability and business continuity.

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 Al-powered analytics to identify potential issues before they occur.
- Predictive maintenance reduces expenses, prevents unexpected failures.
- Proactive maintenance actions and maintenance teams guidence.

Key takeaway: Reduced costs and minimized downtime





■ 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

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