ALSTEF
GROUP

BAGGAGE HANDLING
SOLUTIONS

BEYOND
AUTOMATION

GLOBAL EXPERTS

IN BAGGAGE HANDLING SYSTEM INTEGRATION

From small airports to major airport hubs, Alstef Group has been delivering baggage handling systems and support services to airports around the globe for more than 50 years.

We continuously maintain compliance of our solutions with regionally specific safety regulations and IATA guidelines. We focus on developing nnovative, high-performance baggage handling equipment and value-engineered solutions.

We have extensive experience undertaking retrofit works, working within the challenges of operational airports, and are experts at minimizing impacts to operations. Our industry knowledge and decades of experience enable us to deliver our customers the best advice and solutions available.

We build partnerships.

With a comprehensive solution offering including ongoing support and a commitment to inno-vation, Alstef Group aims to ensure our customers can rely on us for the best possible products and solutions and exceptional customer service.

SUSTAINABILITY FOCUS:
We offer motor energy class optimization and economical conveyor controls to reduce the energy consumption of our installed solutions.

FUTURE-FOCUSED PLANNING

FOR OPTIMIZED CAPACITY, EXPANDABILITY, AND DEPENDABLE SUPPORT

Alstef Group understands that airport growth is ongoing, so we design our systems with a value-engineered approach and make use of simulation and emulation modeling to develop functional solutions focused on energy efficiency and future-proofing, to allow for ongoing development and expansion.

Our expert staff work face-to-face with our clients in developing customized solutions using our advanced modular systems. Our aim is to provide reliable systems and services while lowering the total cost of ownership.

Our innovation team is continuosly monitoring the industry to come up with new and better ways of doing things such as our BAGXONE Automated Guided Vehicle fleet.

Our commitment to our customers is long-term.

We offer a complete range of services to ensure a level of support to suit all client requirements, whether it's on-site Operations and Maintenance, scheduled preventative and corrective maintenance visits, or access to 24-hour software support.

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ENERGY-EFFICIENT, ROBUST, RELIABLE SYSTEMS

CHECK-IN EQUIPMENT

We understand that every airport and region has differing passenger and bag check-in service demands. Therefore, we have designed our check-in products so they can be tailored to client requirements, including fully automated self-service options and traditional check-in conveyors with a configurable number of conveyors in a check-in set.

We use the same overall design, components, and fabrication techniques that have been tried, tested, and proven.

TRANSPORT AND SORTATION

Our emphasis on providing the complete package is demonstrated by our comprehensive transport and sortation conveyor range including our latest innovation - XSORT, a cross-belt sorter purpose designed for high-speed sortation of baggage.

We also offer a range of other transport and sortation conveyors incluidng plough diverters, merges, vertical sorters, centering conveyors, and power curves.

HOLD BAG SCREENING INTEGRATION

Alstef Group can integrate any certified x-ray machine on the market and our expertise provides 100% fail-safe screening. As a Group, we are highly experienced at integrating the latest Standard 3 CT machines ensuring low-risk upgrades from legacy screening systems.

We offer full consultancy and design/validation services to assist airport customers in designing hold baggage screening systems to meet any industry specifications or guidelines including but not limited to ECAC, TSA, CATSA, and BCAS.

CAROUSELS FOR RECLAIM AND MAKE-UP

Our comprehensive range of carousels is highly durable, reliable, and efficient.

We offer both reclaim and make-up carousels and options for caterpillar or friction drives. Mindful of through-life costs, we share many standard components across the carousel range.

We offer high-capacity inclined carousels, over-lapping-slat horizontal carousels that can cater for changes in floor level or our highly configurable pallet/crescent carousels that can achieve a variety of shape configurations.

BAG STORAGE AND BATCH BUILD

Offering both high-bay unitary storage using stacker crane technology and a low bay storage option using belt conveyors with high-speed shuttle technology, our bag storage range will be suitable for any airport environment.

With integrated batch-build technology and high-speed responsiveness, our systems allow airports to reduce the opening time of the make-up chutes/carousels, increasing the overall make-up capacity.

BAGXONE - INNOVATIVE HIGH-SPEED AGV FOR INDIVIDUAL BAGGAGE HANDLING

Our AGVs can cover short or long distances and are easily adaptable to suit scalability and redundancy requirements. For increased capacity requirements or expansion of the baggage sorting system, new AGVs can easily be added to extend the fleet.

A BAGXONE knows its position and its environment in real-time communication is based on a highly secure protocol. Safety laser scanners guarantee safe navigation, a BAGXONE will come to an automatic stop if a person appears in the safety field and then automatically restart to reduce downtime.

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COMPLETE CONTROL

INFORMATION, SYSTEM VISUALIZATION, AND SECURE END-TO-END TRACKING

The **BAGWARE suite of software** includes a comprehensive, secure range of baggage handling system control, tracking, sortation, visualization, and information software modules, to provide real-time bag traceability and full baggage handling system low-level and high-level control.

BAGSORT Sortation, Allocation, Control (SAC) software provides full sortation and flight allocation of outbound baggage and bag screening status and management through the five levels of hold bag screening controls. BAGSORT provides real-time traceability of each bag, reducing the number of delayed/lost bags and ensuring compliance with screening mandates.

BAGVIEW is the Supervisory Control and Data Acquisition (SCADA) solution allowing operators to monitor and control the baggage handling system components in real-time via a dynamic BHS visualization and intuitive interface. Available with 2D or 3D visualization options. BAGVIEW can be built on multiple industry-standard platforms allowing access to manage alarms and faults along with logging data and events.

BAGANALYTICS is a complete **Management Information System / Business Process Improvement** solution, BAGANALYTICS interfaces to any BHS database to acquire and analyse data and visually informs and guides users through a structured, easy to understand graphical interface.

COMPREHENSIVE SUPPORT

TAILORED SUPPORT PACKAGES TO SUIT ALL REQUIREMENTS

An Alstef Group **on-site BHS operations team** provides the comprehensive management and monitoring of the check-in conveyors, outbound BHS – screening and sortation system, and in-bound carousels. We ensure a skilled team is on-site at all times while the system is in operation to undertake all tasks required for the smooth operation of your system.

Alternatively, Alstef Group allows you to **tailor a customised package from our wide range of maintenance services** including, local on-call support, 24/7 phone support, spare parts support, regular scheduled preventative maintenance services, and system health checks.

Alstef Group has several **maintenance engineering tools** featuring multiple functionalities including tracking and planning of maintenance schedules and monitoring of works in progress relating to the baggage handling system. Our solutions can facilitate the management of spare parts stock - including inventories, entries/exits, purchases etc, and the management of both material and human resources and our mobile solution makes it easy for maintenance teams to increase maintenance productivity.

BAGXPERT is a self-learning, adaptative **predictive maintenance** solution which makes it possible to anticipate failure, detect risks of breakdowns, and reorganize maintenance activity in real-time to safeguard ongoing operation.

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