DAIFUKU

Daifuku Airport Technologies

Self Bag
Drop Solutions

A leader in airport solutions

Daifuku Airport Technologies is a trusted partner of airports and airlines globally, providing end-to-end solutions across baggage handling, operations and equipment. Our leading-edge solutions continue to revolutionise airport operations around the world, enhancing the productivity, accuracy and passenger service levels of our partners.

We are defined by our innovative spirit and enduring partner relationships, facilitated by deeply understanding their needs and delivering accurate and valued solutions and support. Working closely with our partners, we set and achieve strategic objectives that help navigate the complexities of airport operations.

Together, we keep the world moving.

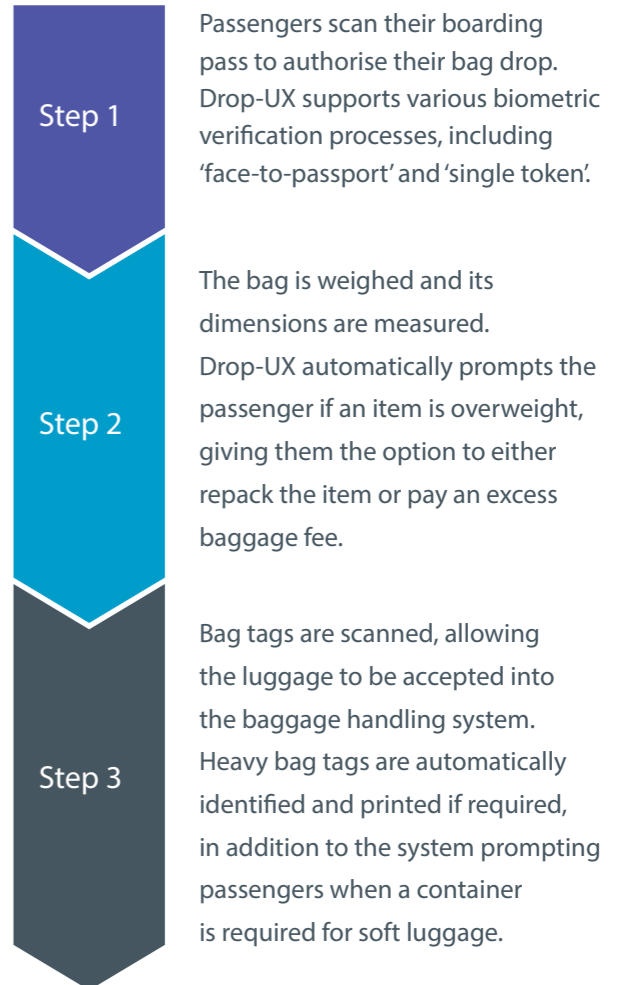# Enhancing the passenger experience

A user-friendly approach

We have a deep appreciation for the user experience that we deliver to passengers, and our entire range of Drop-UX solutions have been designed with simplicity in mind. Our intuitive touchscreen interface delivers clear, graphical prompts throughout each step of the check-in process.

30M +

passengers processed worldwide

Step 1

Passengers scan their boarding pass to authorise their bag drop. Drop-UX supports various biometric verification processes, including 'face-to-passport' and 'single token'.

Step 2

The bag is weighed and its dimensions are measured. Drop-UX automatically prompts the passenger if an item is overweight, giving them the option to either repack the item or pay an excess baggage fee.

Step 3

Bag tags are scanned, allowing the luggage to be accepted into the baggage handling system. Heavy bag tags are automatically identified and printed if required, in addition to the system prompting passengers when a container is required for soft luggage.

Unprecedented efficiency

A modern, flexible design

We understand the importance of flexibility when it comes to deploying new hardware inside an airport terminal, and have taken a contemporary, modular approach in the design of our fourth-generation SBD solution. By separating its three core components; the Passenger Interface, Sensor Arch and Smart Low Profile Conveyors; our solutions continue to meet the unique physical requirements of airports worldwide. Our highly skilled team will collaborate with you on how to best achieve your desired objectives and aesthetic.

In a class of its own

Drop-UX is the only SBD solution certified for use on the world's leading common-use self-service (CUSS) platform. While many early SBD deployments were for a single airline, we understand that from an airport perspective, a 'common-use' solution is preferred. These solutions enable multiple airlines to utilise the same SBD hardware, maximising passenger throughput within the terminal check-in area.

30 +

global airports with Drop-UX solutions deployed

Integrated software package

A common-use approach

Our Self Bag Drop solution comes with a multi-airline bag drop application that has been designed specifically for use with our hardware. Built with the same common-use approach of our Drop-UX series, the application allows an unlimited amount of airlines to use its interface at any given time, and does not require passengers to select an airline prior to commencing use. The easy-to-use interface offers passengers a step-by-step guide through the bag-drop process, and can be configured and/or branded to a dedicated airline upon request.
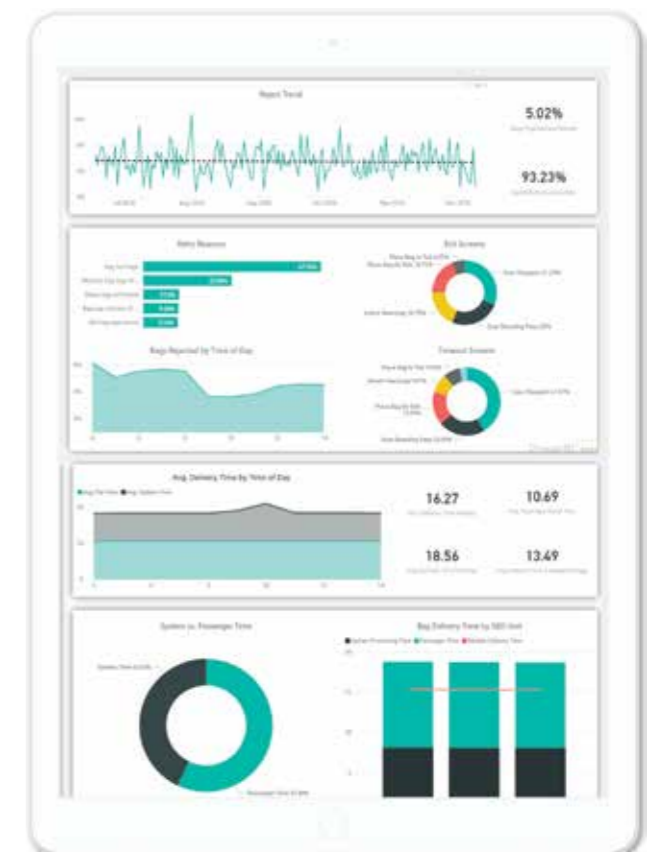
> Built with the same
> common-use approach.

Unparalleled data analytics

Underpinning the Drop-UX application is our next-gen reporting and business intelligence solution. This provides our partners with an unprecedented level of access and control over a range of critical performance metrics. This data is presented in real-time through our intuitive dashboard, capturing passenger, flight and baggage information at the point of entry for airport planners and operators to review at their discretion.

Software package includes

- A user-friendly SBD application
- Integrated hardware control system
- Detailed reporting package
- Connections to all airline departure control systems

SBD Business Intelligence platform

Drop-UX Series

Our range of Drop-UX solutions have been designed to meet the needs of any airport terminal.

Drop-UX [250L]

For many airports and airlines, completely replacing their existing check-in hardware may not be feasible. Fortunately, the modular design of Daifuku's Drop-UX series allows for both the Sensor Arch and Passenger Interface Unit to be retrofitted within existing terminal counters, with minimal adjustments to existing conveyor systems. Drop-UX [250L] offers a self-service solution for both oversized and out of gauge baggage, and is a lower-cost alternative to full replacement solutions, while still providing passengers with an efficient SBD experience.

Features:

- Slimline design
- ADA compliant
- Dual-mode compatible with 1 or 2 step processing
- Bag tag printer
- Receipt printer
- Chip and pin payment solution
- Biometrics
- Passport reader
- Automatic, Semi-Automatic or Handheld scanner
- ADA Nav Pad

Drop-UX ^{300P}

Drop-UX ^{300P} is designed as a full replacement
of existing check-in counters, and can be easily
integrated into any existing baggage handling
system. Its space-efficient design allows for up to
20% more SBD units to be installed, comparative
to traditional check-in counters within the same
terminal environment. Drop-UX ^{300P} also has a
range of peripheral options that can be included
during installation, that add a variety of benefits for
airport partners. These include integrated 'swing
desks', designed for rapid deployment in fall-back
operations, single and double-stage conveyors,
and device options for passenger interface units.

Features:

- Fully automated bag tag and 3D scanning
- Biometric & passport scanning
- Boarding pass scanning
- Receipt printer
- Payment terminal
- ADA compliant
- Low-profile conveyor for easy bag loading
- RFID bag tag readers
- 1, 2 or 3 conveyors
- Up to 3 printers
- 1 step (bag tag printing)
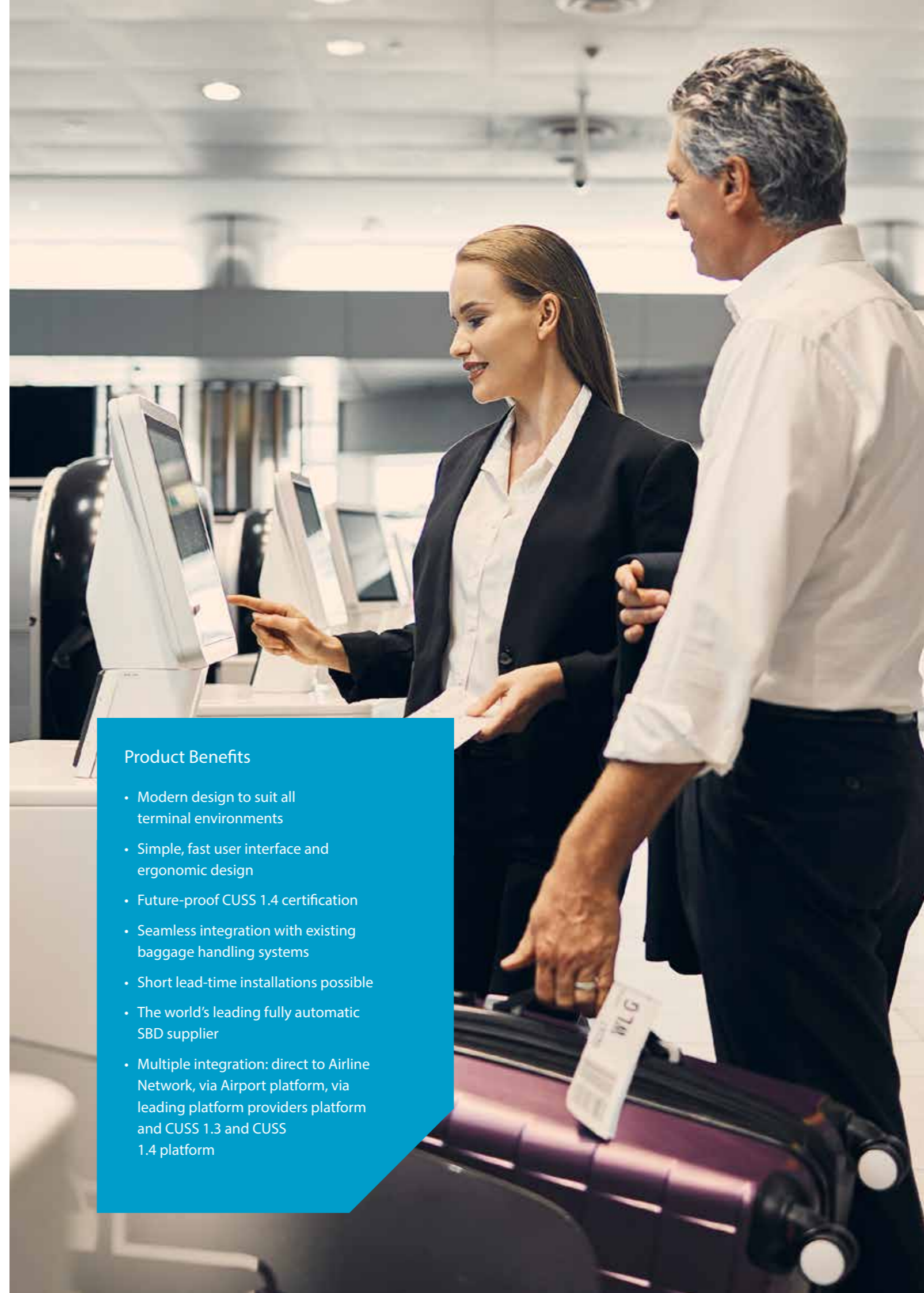 or 2 steps process

Drop-UX ^{300H}

Drop-UX ^{300H} is designed as a full replacement for
existing check-in counters. Our unique 300H design
gives airport and airline staff the option to operate
as either a standard check-in desk, assisted bag
drop desk, or fully automated, self-service bag
drop. This offers a dynamic and flexible common-
use solution for airports, with a mix of current and
future requirements for self-service. The 300H desk
solution can also further reduce capital expenditure
and create additional capacity for check-in by simply
rotating the screen and moving to self bag drop.

Features:

- Dual mode integrated desk
  (check-in or self-service)
- One common set of peripherals
  for both self bag drop and agent
  assisted CUTE mode
- Compact width
- Flexibility for airport operations
- Corian material
- Customized branding and finishes
- Same features of Drop-UX ^{300P}

Drop-UX series key features			
Feature	250L	300P	300H
Configuration			
Conveyor configuration	1–4	1–5	2–5
Check-in counter	Use existing or no counter	Not required	Not required
Dual-mode compatible (conventional and self-service check-in)	Yes	Option	Yes
Dual-mode peripheral hardware included (one set)	No	No	Yes
Low profile conveyor	Option	Option	Option
Process			
Bag tag scanning solution	Handheld scanner	Automatic laser reader (Included) RFID tag reader (option) Camera tag reader (coming soon)	
Multiple bag detection	No	Yes	Yes
CUSS 1.3 certified on a major platform provider	No	Yes	Yes
Heavy bag detection and printing	Option	Yes	Yes
Payment device	Option	Option	Option
RFID	Card reader (option)	Card reader (option) Bag tag printing (option) Bag tag scanning (option)	
Security			
Intrusion detection	No	Yes	Yes
Automatic doors	No	Option	Option
Biometric integration	Option	Option	Option
Passport scanner	Option	Option	Option

Product Benefits

- Modern design to suit all terminal environments

- Simple, fast user interface and ergonomic design

- Future-proof CUSS 1.4 certification

- Seamless integration with existing baggage handling systems

- Short lead-time installations possible

- The world's leading fully automatic SBD supplier

- Multiple integration: direct to Airline Network, via Airport platform, via leading platform providers platform and CUSS 1.3 and CUSS 1.4 platform

DAIFUKU

Daifuku Airport Technologies

Daifuku Airport Technologies is a world-class
solutions provider for airports globally.
Discover how we can support you and
your customers today.

daifukuatec.com