

Contents



Aviation History and Challenges



The BBHS System



Integration and Scale Approach



Benefits and Opportunities

















History















Baggage was the topic of three of the

that passengers would use regularly

top six items on a list of mobile services

Passengers satisfaction rate according to waiting time:

79% of mishandled bags were delayed bags 15% damaged or pilfered 6% lost or stolen

88% if < 10 minutes

68% if < 30 minutes

54% if < 60 minutes

Passenger experience











Industry Challenges

- Low production efficiency and capacity per squaremeter
- Space intensive infrastructure
- Poor CAPEX utilization

- High operational costs
- Poor work environment

- Inefficient handover of responsibility between stakeholders
- Poor tracking of baggage





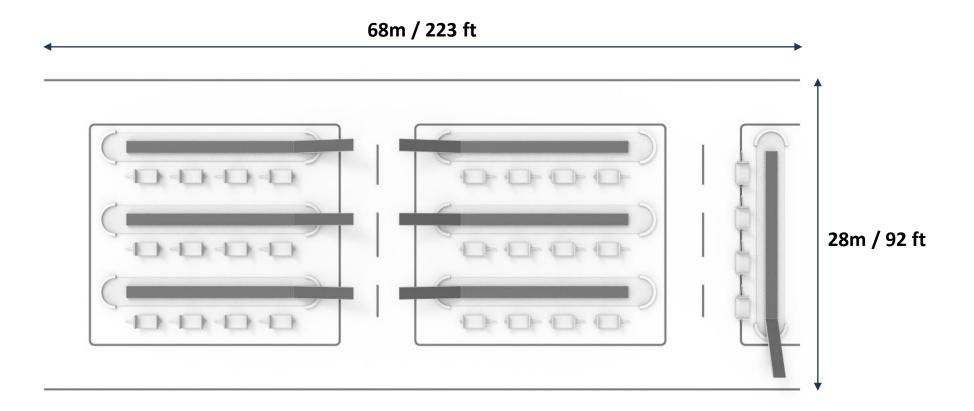












Sorting hall utilization

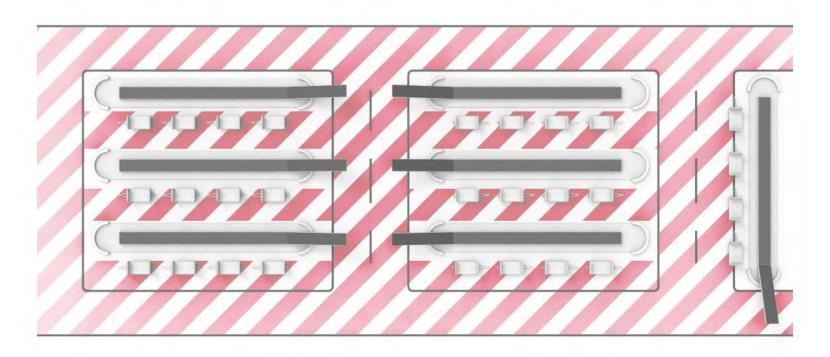








of floorplan is driveways, make-up positions, and staging area



Sorting hall utiltization

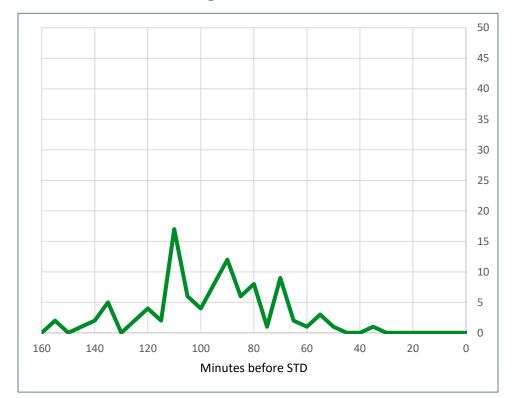




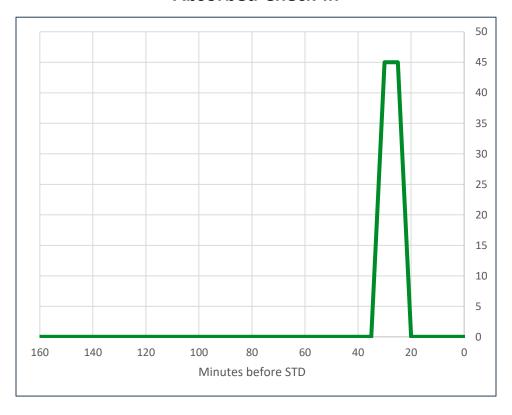




Regular Check-in



Absorbed Check-in



Check-in Pattern









Summary of challenges



Baggage tracking



Work environment



Controlling check-in pattern



Space utilization













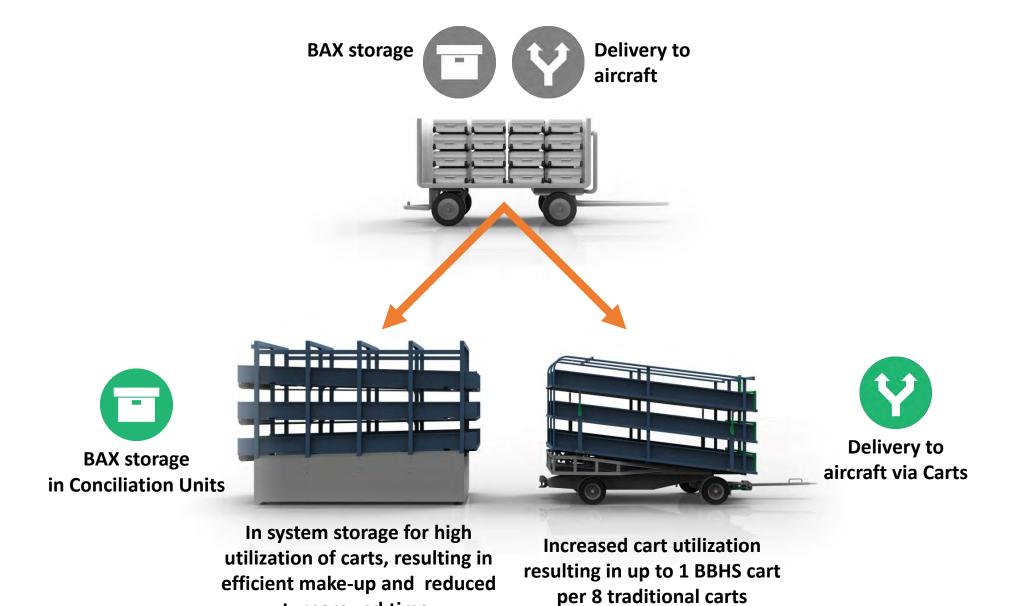
Current operation is based on filling carts one-by-one with BAX until full, resulting in low efficiency and utilization













turnaround time.

















Reconciliation



Loading carts



BAX storage (on carts)



Delivery to aircraft



Loading aircraft

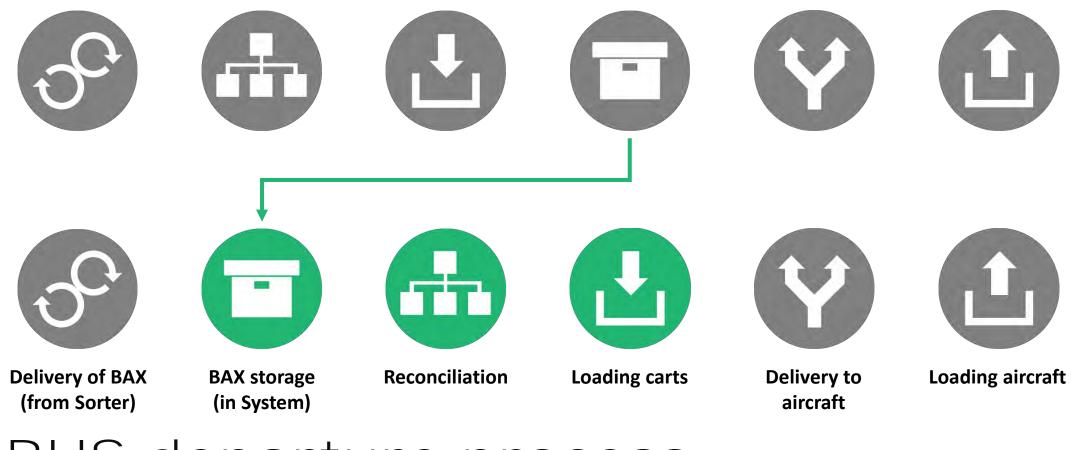
Typical departure process











BBHS departure process

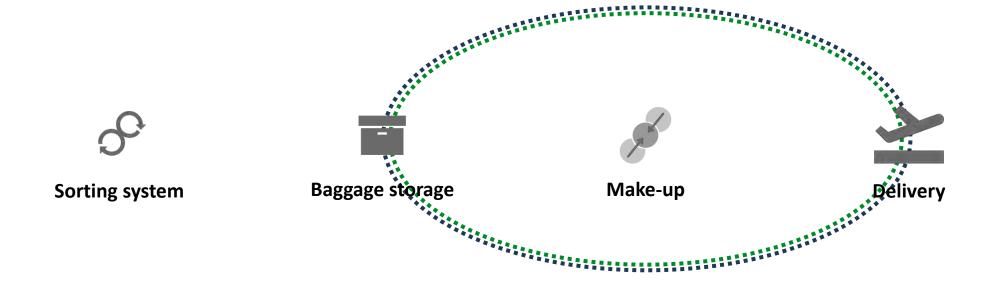








BBHS Fit









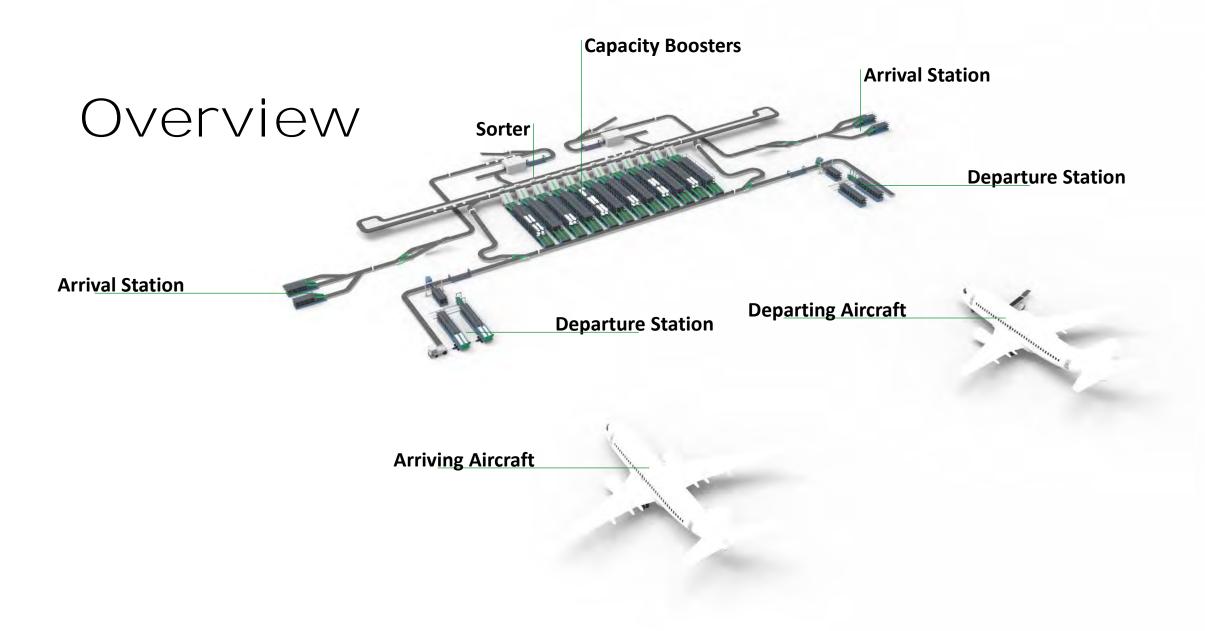


Link: https://vimeo.com/234278445





Lean concept animation

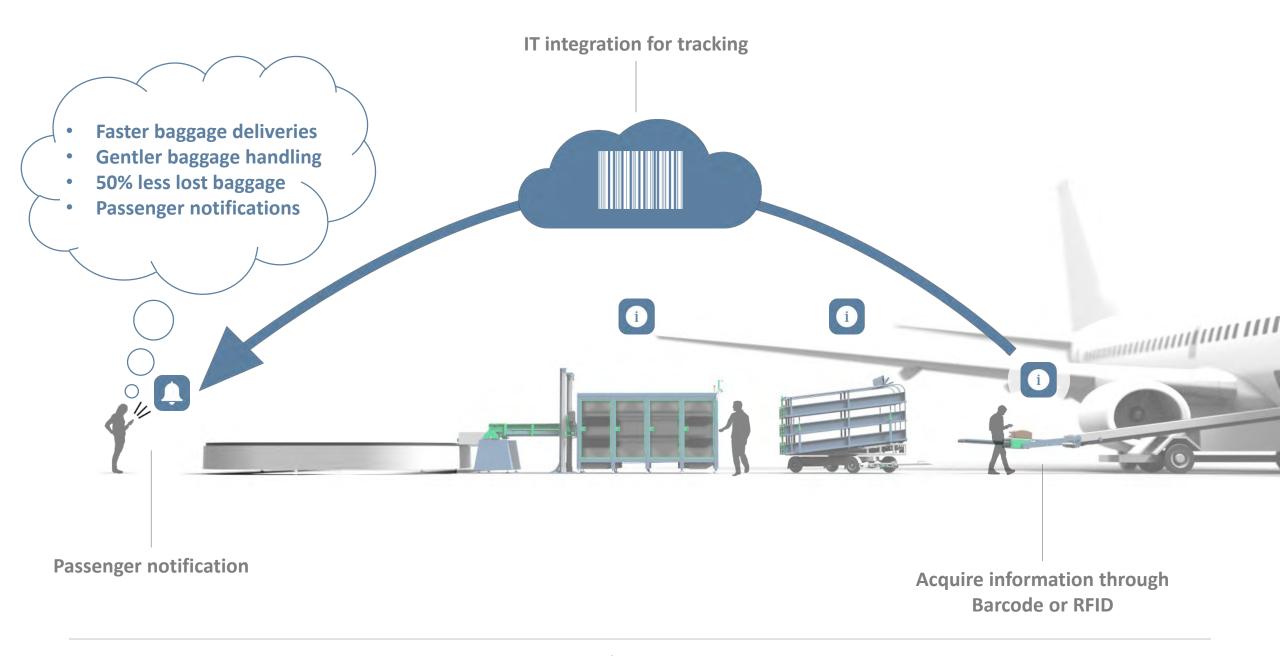






















60 BAX flushed in < 10 secs

Full traceability of BAX

Automated inbound sortation

Quick handling of transit BAX













Unloading aircraft



Positioning carts at Arrival Station



Flushing baggage



Arrival









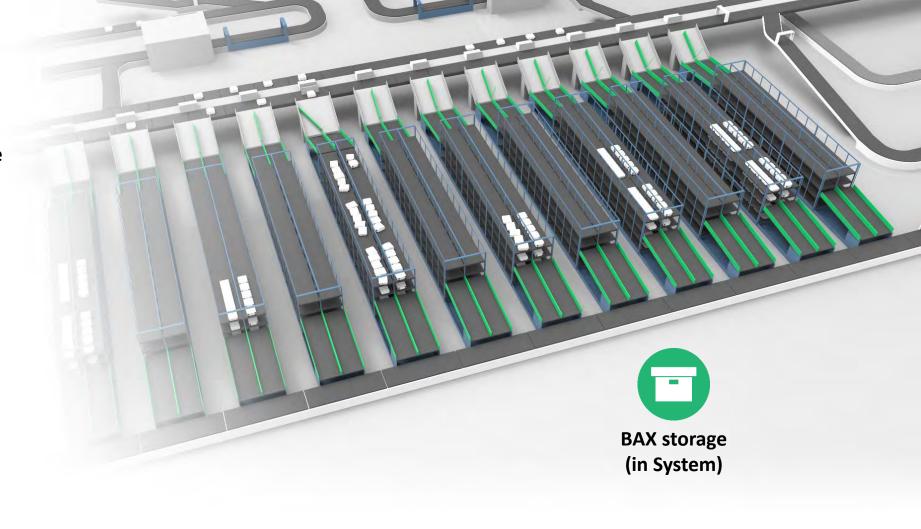
Full baggage inventory available real time and upon dispatch

Modular build up of early storage and sortation lanes

Intelligent baggage storage

Adaptable to pier, carousel and chute departure setups

Flexible size and capacity with high space utilization



BBHS departure process









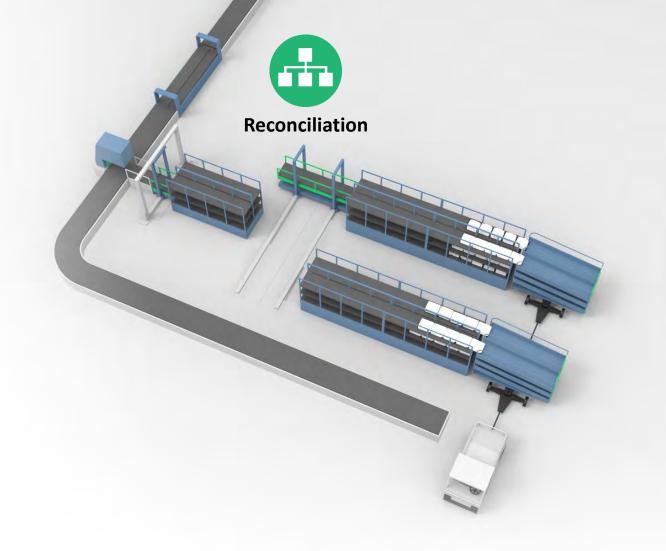
Rapid on demand make up

Reconciliation based on pull principle

Manual handling reduced by 95%

High process efficiency

Carts filled in < 10 secs



BBHS departure process







Loading carts

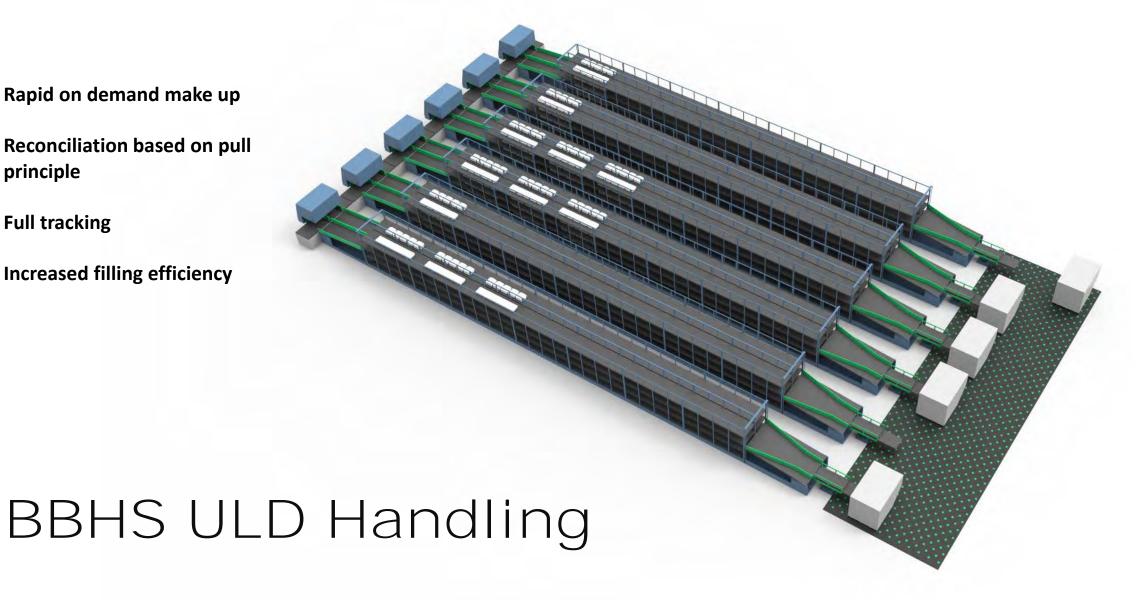


Rapid on demand make up

Reconciliation based on pull principle

Full tracking

Increased filling efficiency

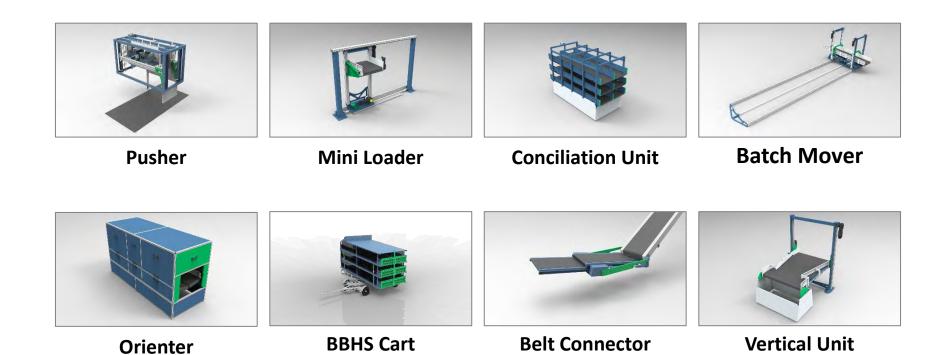












BBHS Components

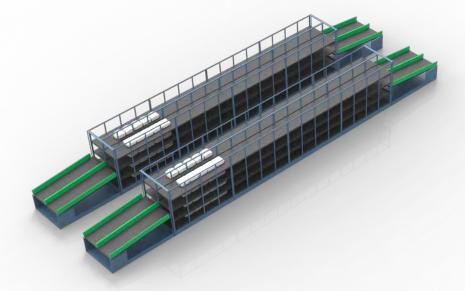








Capacity Boosters





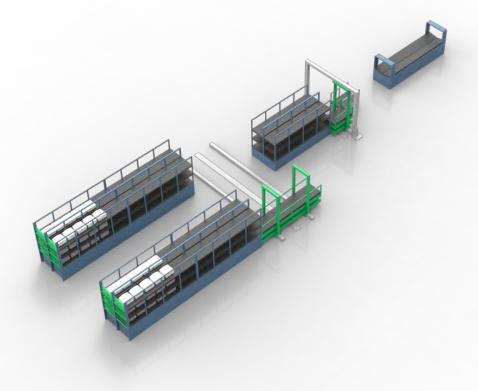








Make-up Station





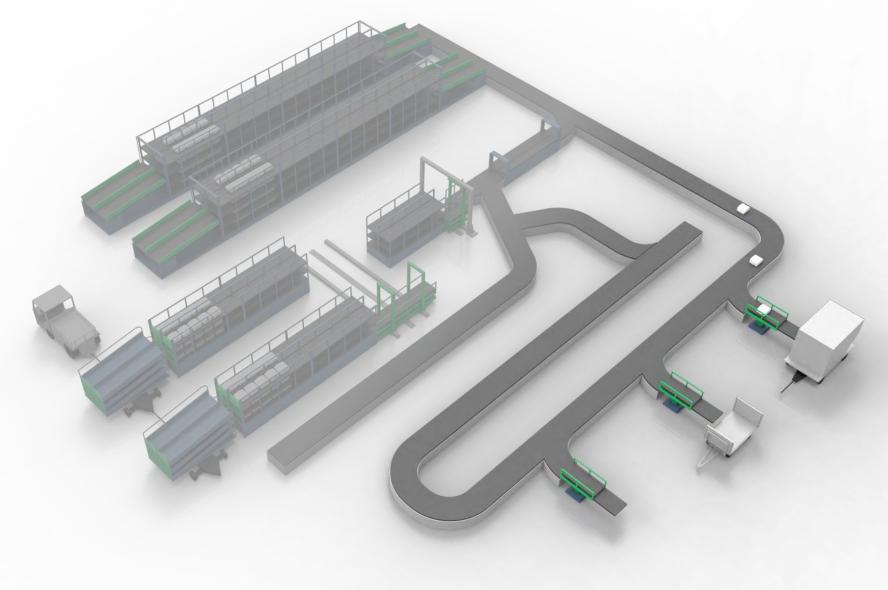








ULD and Manual Station





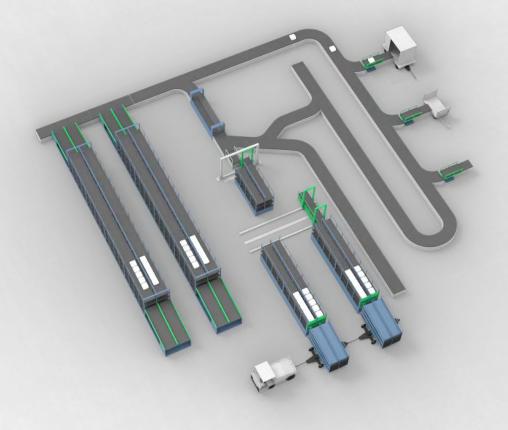








Departure Setup



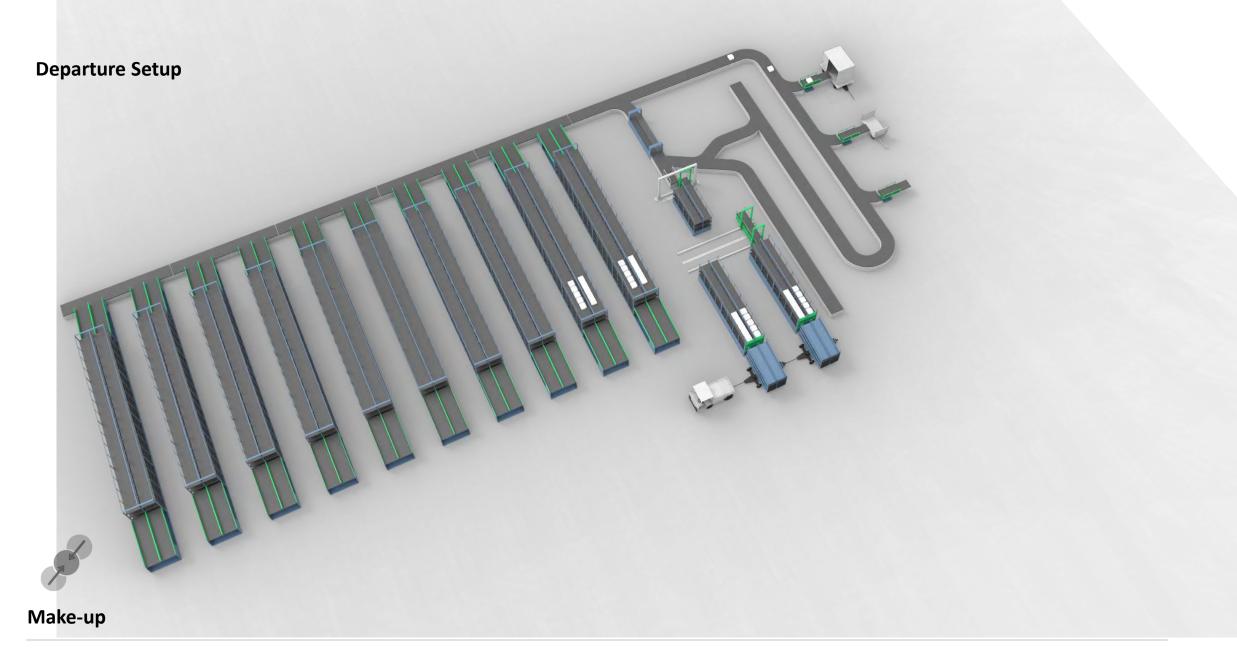






















Buffering baggage in Capacity Boosters



Make-up and segmentation



Flushing baggage



Make-up





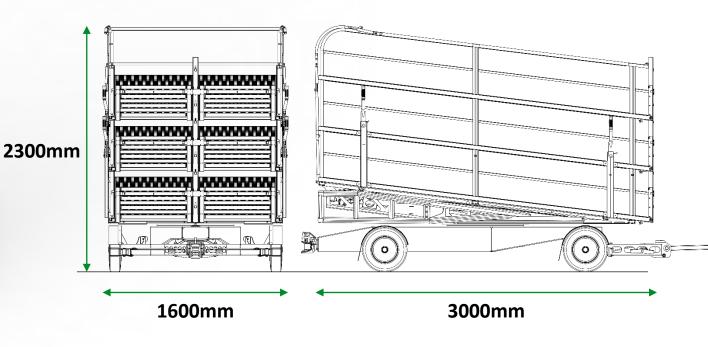








All shelves are equipped with rollers, ensuring baggage moves off the shelves when the lids are opened.



BBHS Cart

One cart has the capacity of approx. 30 BAX. BBHS suggests that carts are paired in two forming a train.





