Elenium VYGR

Passenger Experience

elenium

"Technology that moves you faster"

ABOUT ELENIUM

Elenium Automation creates self-service technology that moves you faster and safer. Our products are used by millions of people across aviation, healthcare, aged care and government infrastructure.
We have a unique team with capabilities in robotics, mechanical engineering, physics, machine learning and data science.

Founded in 2015 and headquartered in Melbourne, Australia, we have deployments on every continent with thousands of devices installed.

Our software and hardware capabilities

Voice Recognition

Vital Sign Detection

Biometrics

Virtual Touch Screen

elenium
AUTOMATION
OWNED, DEVELOPED & BUILT IN AUSTRALIA

Automating processes for over 250,000,000* people annually (*pre Covid)

Airports

Aged Care

Distribution Centers

Defense

CUTTING EDGE TOUCHLESS TECHNOLOGY

Touchless + Biometrics

Voyager easily merges touchless technology and biometrics, to provide an end-to-end solution.

PASSENGER EXPERIENCE REDEFINED

Fast + Frictionless

Remove friction points and enable a walk-through passenger experience

ENGINEERED FOR HEALTH & SAFETY

Safe + Traceable

Provide confidence to passengers to safely enjoy travel, again.

MERGE INCREASED REVENUE STREAMS WITH COST SAVINGS

Non-aviation revenue growth + lower TCO

Voyager converts the airport factory in shopping mall by creating space and increasing dwell time. Automation improves staff productivity.

FLEXIBLE COMMERCIAL OPTION

No Upfront Cost

Elenium will make the investment in infrastructure and our clients pay as their clients use it.

FRICTIONLESS ● *FASTER* ● *NEW AGE*

15 sec Check-In

3 sec Bag Drop

5 sec Boarding

CHECK-IN	BAG DROP	SHOPPING	VIRTUAL ASSISTANTS	AUTOMATED BOARDING
Check-in using biometrics on your phone or at remote kiosks at hotels and train stations.	Bag drop in seconds. Passenger tracking and data throughout the journey.	Shopping experiences personalised to the passenger on interactive displays	Kiosks with integrated virtual assistants enable upgrades, purchases, and disruption management	Boarding without attendants with validation and tailgating protection.

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KEY COMMERCIAL MILESTONES

In 6 years, Elenium has gone from having a zero self-service installation base to having over 700 devices implemented in 19 airports globally.

Founded 2015

ARINC
Delivery of first 20 Portable Kiosks to ARINC for Sydney Airport

2016

Auckland Airport
First delivery to Auckland Airport

Started Development of Common Use SaaS Platform

2017

Awarded Hong King Tender for Kiosk Hardware and Common Use Platform

香港 國際機場 HONG KONG INTERNATIONAL AIRPORT

spiceJet
Common Use Platform for SpiceJet Regional Ports

2018

Awarded Kiosk Tender

Sydney Airport

Bengaluru INTERNATIONAL AIRPORT
Delivered Boarding System to Bangalore Airport

QANTAS
Track & Trace solution

QUEENSTOWN airport
First end-to-end self-service solution

2019

Developed a comprehensive bag drop app. Innovation MoU to showcase "Voyager" technology

الاتحاد ETIHAD AIRWAYS

aws
Utilising the biometrics, voice recognition, touchless and vital sign technologies, in partnership with AWS

2020

End to end self-service with new generation Bag Drop.

Avalon Airport
Flying made easy

HealthGate By Elenium Automation
Developed HealthGate and attained TGA certification.

Auckland Airport
Implementation of CUSS Platform for check-in kiosks.

2021

$200 million funding facility to fund Voyager implementations with a pay per use model

VYGR

VIE Vienna International Airport

Ongoing Airport implementations including Darwin, Mackay, Vienna, Doha.

Darwin International Airport

Mackay Airport

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Elenium Fixed Kiosk

The Elenium Fixed Kiosk offers a fully functional, robust kiosk at a value point unmatched in the market. Designed with a focus on flexibility and affordability, the Fixed Kiosk expands the range of viable self-service deployments. CUSS compliant, it meets all the airline needs now and into the future.

Flexibility
Our kiosks are adaptable to immigration, access control or way finding processes.

Future proof
Our kiosks are integrated with a sensor array that adapts to changes in the future passenger experience and process innovation.

Biometrics Ready
Kiosks are biometrics ready; support any major biometrics vendor.

Touchless
Our kiosks are touchless by design, keeping users safe from viral transmission while reassuring them.

Y-Type Kiosk

J-Type Kiosk

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Elenium Portable Kiosk

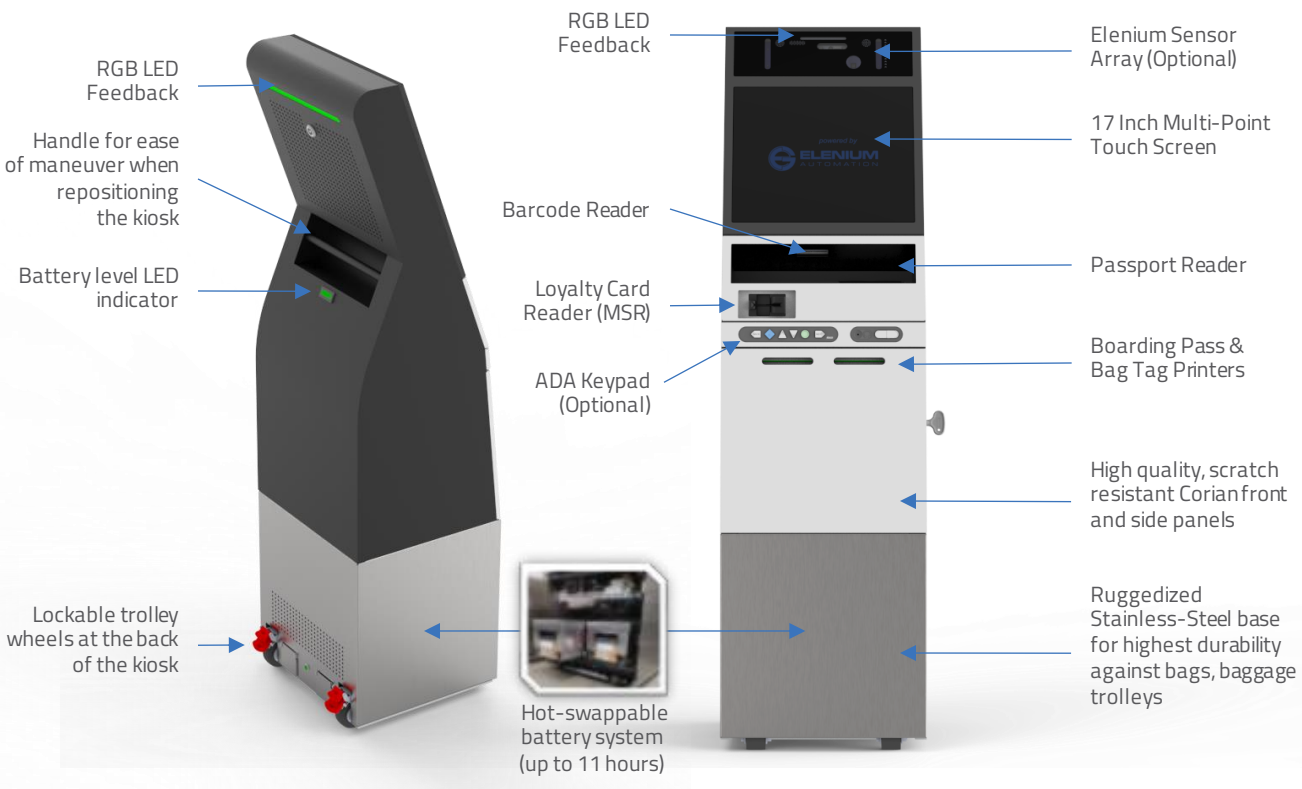
The Elenium Portable Kiosk is a highly configurable device with a PCI-PTS payment device, an optional CUPPS keyboard, premium finishing materials and a flexible industrial design. Ergonomically designed for ADA compliance the Portable Kiosk is robust, user-friendly and aesthetically pleasing. Its portability brings additional flexibility to meet your daily operational needs.

Portable
Our kiosks can be moved during the day to adapt to your passenger flows.

Flexibility
The pull-out CUTE keyboard makes the kiosk into a portable manual rework station.

Touchless
Our kiosks are touchless by design, keeping users safe from viral transmission while reassuring them.

Future proof
Our kiosks are integrated with a sensor array that adapts to changes in the future passenger experience and process innovation like biometrics.



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Check-In Kiosk
KIOSK FEATURES COMPARISON

STANDARD FEATURES

	Key Features	Y-Type Fixed	J-Type Fixed	J-Type Portable
Display	Touch Screen Size	19”	19”	17”
PC	RAM (Option 16GB)	8GB	8GB	8GB
PC	Intel NUC (i7 Option)	i3	i5	i5
PC	SSD	128GB	256GB	256GB
OS	Windows 10	Yes	Yes	Yes
Network	Wi-Fi and Ethernet	Yes	Yes	Yes
Reader	Elenium Sensor Array: Biometrics – Facial	Yes	Yes	Yes
Reader	Barcode Reader	Yes	Yes	Yes
Reader	Passport Reader	Option	Yes (RFID)	Yes (RFID)
Reader	Loyalty Card Reader (MSR)	Option	Yes	Yes
Reader	NFC Card Reader	Option	Yes	Yes
Payment	PCI Virtual QR Code Payment Device	Yes	Yes	Yes
Printer	Boarding Pass Printer	Yes	Yes	Yes
Printer	Bag Tag Printer	Yes	Yes	Yes
Input Device	Virtual Touch Screen	Yes	Yes	Yes
Input Device	Keyboard	NA	NA	Yes
Power	Hot-Swappable Battery System (Lead Acid Battery)	NA	NA	Yes
Design	Standard Colors to Choose From (Color sw abs to be provided on request)	Yes	Yes	Yes
Design	LED Lighting	Yes	Yes	Yes
Design	ADA Compliant Design	Yes	Yes	Yes
Design	Standard Stability Plate	Yes	Yes	Yes

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Check-In Kiosk
KIOSK FEATURES COMPARISON

OPTIONAL FEATURES

	Optional Features	Y-Type Fixed	J-Type Fixed	J-Type Portable
Network	Cellular Data Network (4/5G)	Option	Option	Option
Payment	PCI MSR Payment Device (Dependent on local bank requirement)	Option	Option	Option
Payment	PCI Chip& PIN Payment Device (Dependent on local bank requirement)	Option	Option	Option
Printer	Third Printer	Option	Option	NA
Input Device	ADA Keypad	Option	Option	Option
Design	Customizable Mid Panel	NA	Option	NA
Design	Brandable – vinyl warp or custom colors	Option	Option	Option
Design	Premium LED Lighting	NA	Option	NA
Design	Stock Catcher	Option	Option	NA
Design	Stock Bin	Option	Option	Option
Design	Attract Screen / Light Box	Option	Option	Option
Design	Extended Stability Plate	Option	Option	Option
Design	Weighing Scale	Option	Option	NA
Power Supply	Battery / UPS	UPS	UPS	Lithium Battery

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Elenium Automated Bag Drop

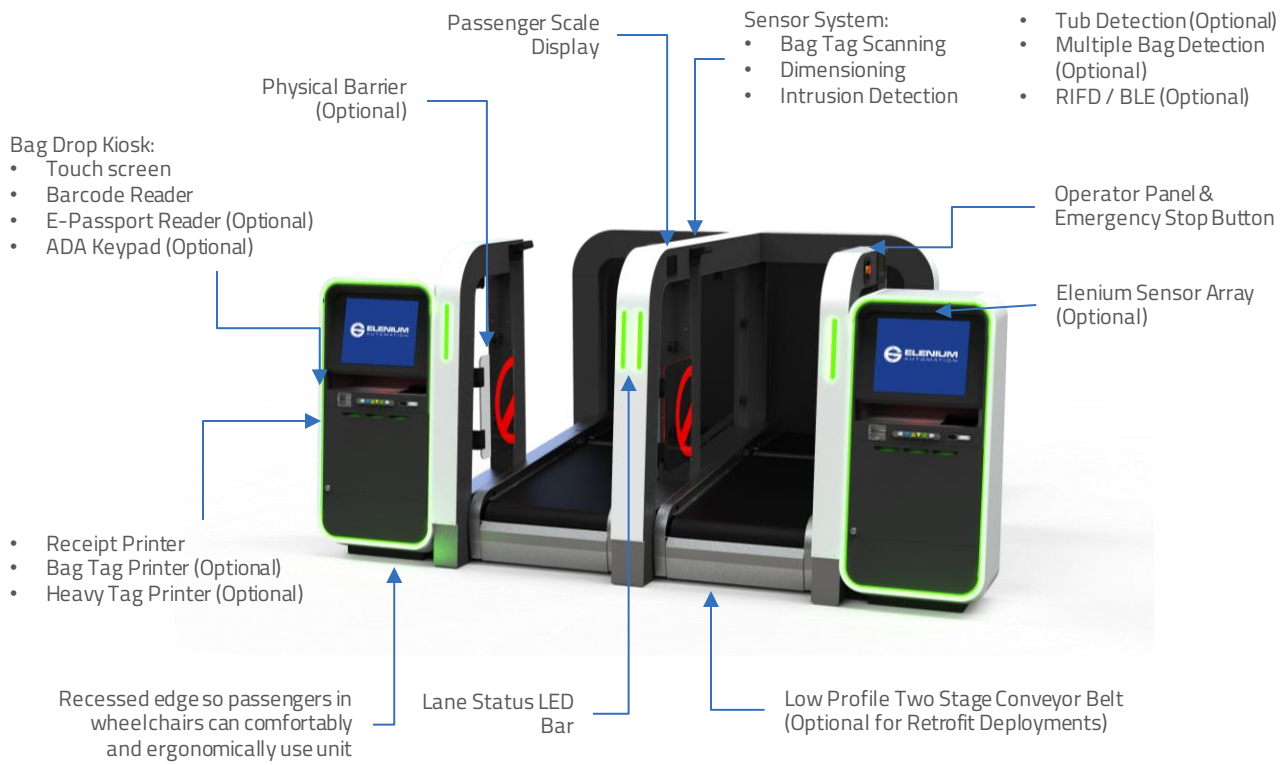
The Elenium Automated Bag Drop has a highly adaptive design, suitable for new fit, retrofit, or hybrid setup providing passenger self-service bag drop experience. It provides a low complexity path to upgrading existing check-in infrastructure, thereby increasing airport assets' productivity. It also offers as standard; intrusion detection and dimensioning, and optional tub detection and reuse of existing conveyor belts.

> 95% First Read Rate
Achieving high read rate using computer vision & AI-based machine learning technology

Future proof
Our SBD are integrated with a sensor array that adapts to changes in the future passenger experience and process innovation.

Adaptive Design
Suitable for new fit, retrofit or hybrid setup

Touchless
Our SBD are touchless by design, keeping users safe from viral transmission while reassuring them.



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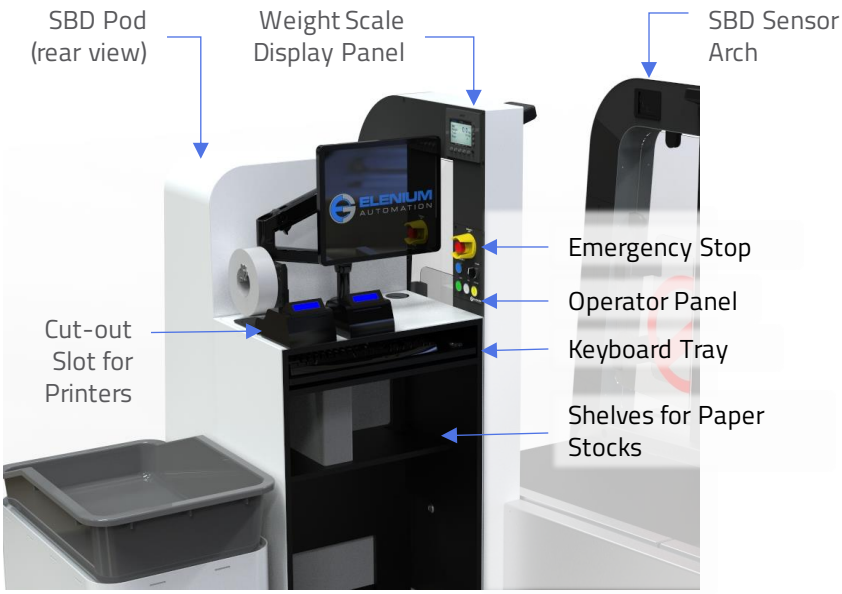
Self Bag Drop
HYBRID NEW FIT'S AGENT DESK



Agent Desk

The Hybrid Self Bag Drop model has an integrated agent desk with access to a weight-scale display and conveyor controller panels.

There is space for the airport to place it's CUPPS equipment as the desk - monitor, workstation, bar code reader and printers; it function as a full-service conventional counter.

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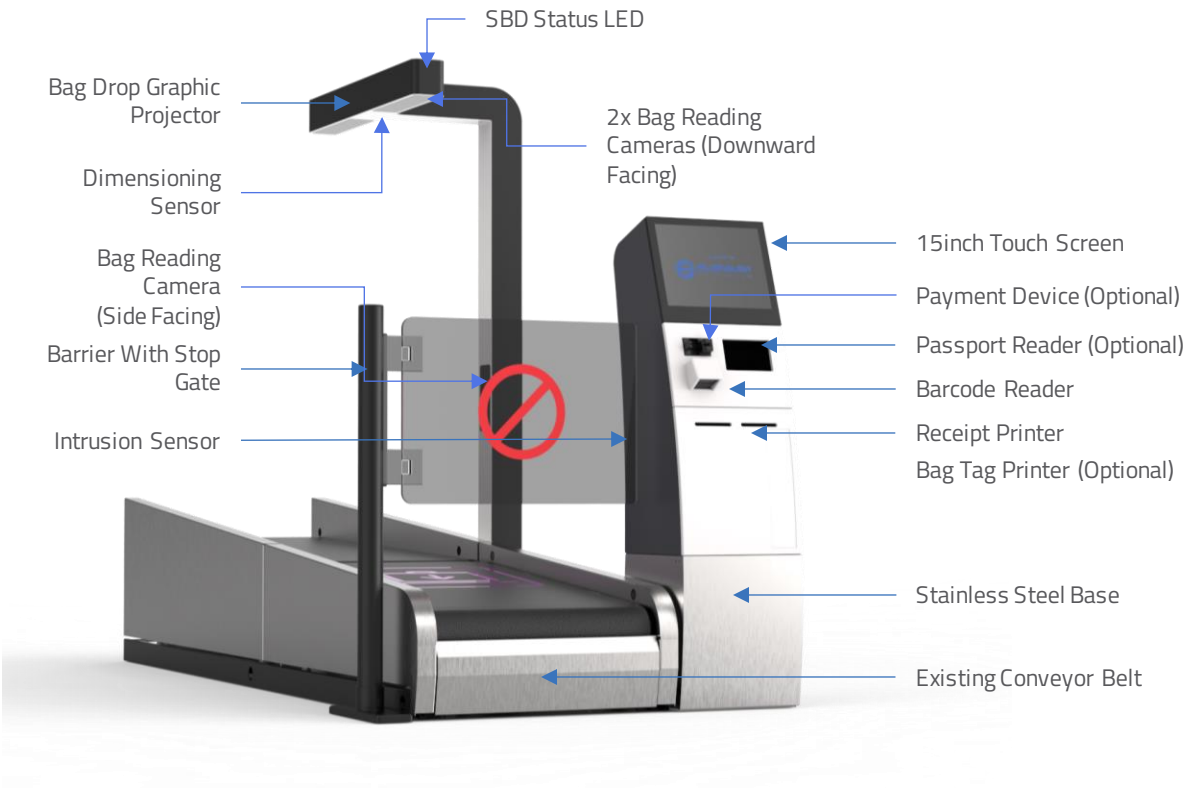
Elenium Automated Retrofit Bag Drop

High First Read Rate
Achieving high read rate using computer vision & AI-based machine learning technology

Future proof
Our SBD are integrated with a sensor array that adapts to changes in the future passenger experience and process innovation.

Adaptive Design
Retrofit setup

Touchless
Our SBD are touchless by design, keeping users safe from viral transmission while reassuring them.



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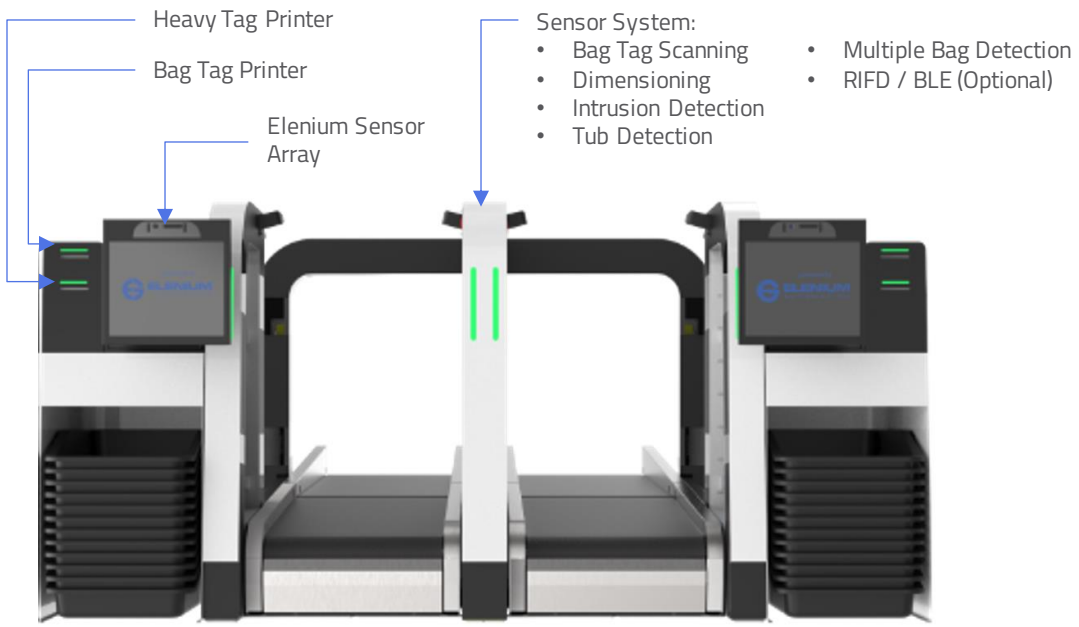
Elenium Automated Slimline Bag Drop

The Slimline Bag Drop is designed for optimised footprint in the airport, driving space efficiency and faster throughout. When 2 units are placed together, they have a pitch of 3.1 meter (approx.) as compare with typical industry pitch of 3.7 meter to 4.5 meter.

It is equipped with the same technology as the Hybrid Bag Drop - computer vision technology and Elenium Sensor Array for QR code, barcode reading and facial recognition.



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Self Bag Drop
BAG DROP FEATURES COMPARISON

STANDARD FEATURES

	Key Features	Retrofit Bag Drop	Hybrid Bag Drop	Slimline Bag Drop
Display	Touch Screen Size	15”	17”	17”
PC	RAM (Option 16GB)	8GB	8GB	8GB
PC	Intel NUC8 i5 (i7 Option)	i3	i5	i5
PC	SSD	128GB	256GB	256GB
OS	Windows 10	Yes	Yes	Yes
Network	Wi-Fi and Ethernet	Yes	Yes	Yes
Reader	Elenium Sensor Array: Biometrics – Facial	Yes	Yes	Yes
Reader	Barcode Reader	Yes	Yes	Yes
Reader	Passport Reader (RFID)	Option	Yes	Option
Reader	Loyalty Card Reader (MSR)	Option	Yes	Option
Reader	NFC Card Reader	Option	Yes	Yes
Payment	PCI Virtual QR Code Payment Device	Yes	Yes	Yes
Printer	AEA Printer (RFID Option)	1	2	2
Printer	Space for Additional Printer	Yes	Yes	No
Input Device	Virtual Touch Screen	Yes	Yes	Yes
Sensor System	Bag Tag Scanner	3 -Camera System	12-Camera System	12-Camera System
Sensor System	Baggage Dimensioning	Yes	Yes	Yes
Sensor System	Intrusion Sensor	Tamper Sensor	Tamper & Trip Sensors	Tamper & Trip Sensors
Conveyor System	Control Box	Yes	Yes	Yes
Conveyor System	Scale	Scale Interface	Scale / Injector 2 Stage	Scale / Injector 2 Stage

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Self Bag Drop
..\BAG DROP FEATURES COMPARISON

STANDARD FEATURES

	Key Features	Retrofit Bag Drop	Hybrid Bag Drop	Slimline Bag Drop
Design	Dual-lane Partition	Optional	Yes	Yes
Design	Augmented Reality Projector	Yes	NA	NA
Design	Hybrid Desk	No (Existing desk can remain)	Yes	No
Design	Emergency Stop	Yes	Yes	Yes
Design	Standard Colors to Choose From (Color sw abs to be provided on request)	Yes	Yes	Yes
Design	LED Lighting	Yes	Yes	Yes
Design	ADA Compliant Design	Yes	Yes	Yes
Design	Tub Holder	Option	Option	Yes

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Self Bag Drop
..\BAG DROP FEATURES COMPARISON

OPTIONAL FEATURES

	Optional Features	Retrofit Bag Drop	Hybrid Bag Drop	Slimline Bag Drop
Conveyor System	Belt	NA	3rd Stage	3rd Stage
Conveyor System	Weighing Scale	Option	Option	Option
Design	Brandable – vinyl warp or custom colors	Option	Option	Option
Design	Stock Bin	Option	Option	Option
Input Device	ADA Keypad	Option	Option	Option
Input Device	Handheld Scanner	Option	NA	NA
Network	Cellular Data Network (4/5G)	Option	Option	Option
Payment	PCI MSR Payment Device (Dependent on local bank requirement)	Option	Option	Option
Payment	PCI Chip& PIN Payment Device (Dependent on local bank requirement)	Option	Option	Option
Power Supply	UPS	Option	Option	Option

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