

AIRPORT SECURITY SOLUTIONS

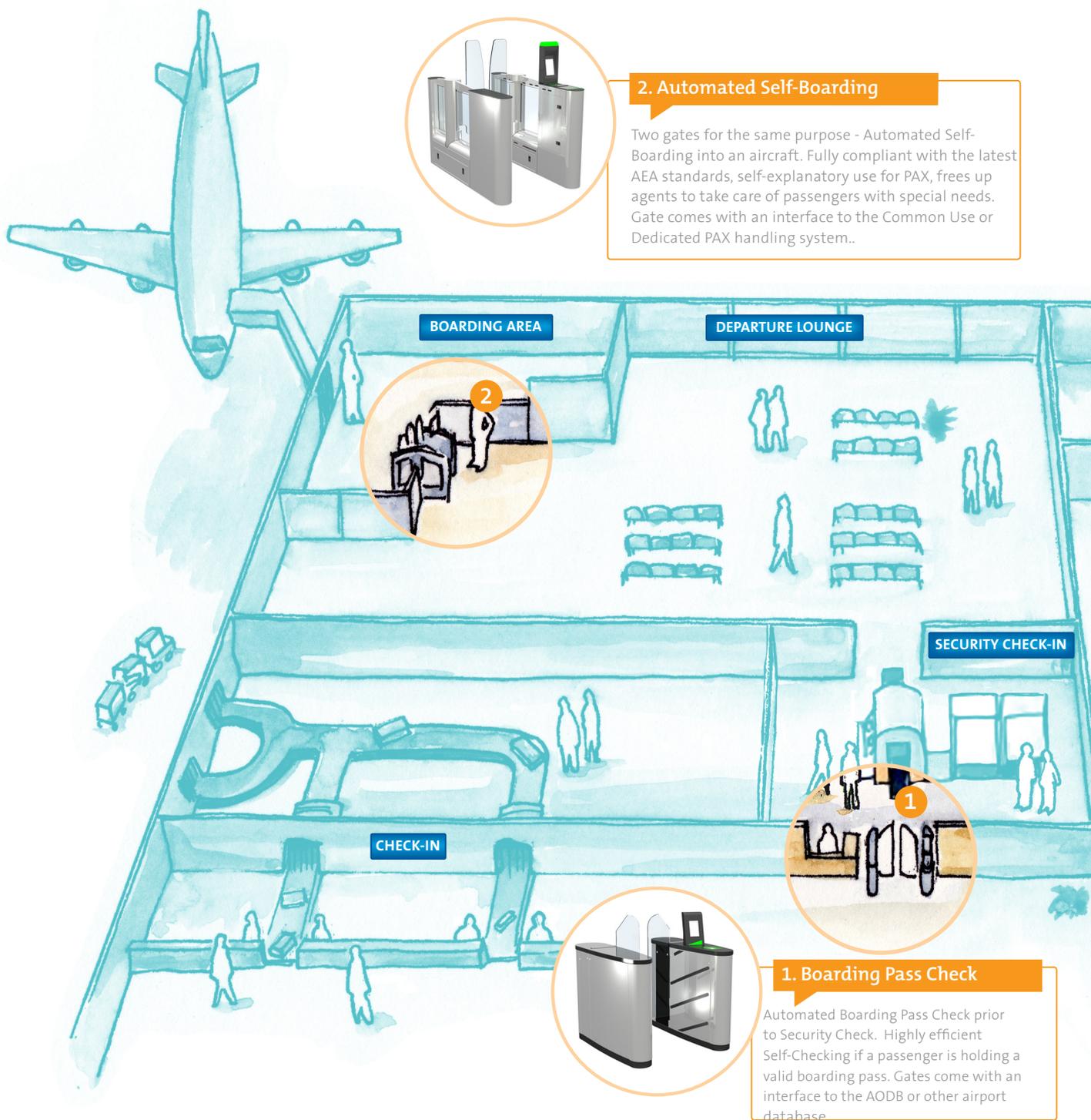


Freedom of Movement, Uncompromised Security

From Gunnebo's early days, airports were always one of the most important markets for the company's Entrance Control division. The offering included a wide range of different gate solutions for efficient, secure and safe PAX processing inside an airport.

Today airports are not just locations where passengers get on and off aircraft. Highest security standards have to be followed, cost-driven efficiency must be achieved and best PAX experience provided in this very competitive environment.

As an international market leader in the entrance control market, Gunnebo understands what airports and airlines are demanding from state-of-the-art access management solutions. Although security requirements have continuously increased over the last few years, it is essential for airports and airlines to operate their businesses in the most profitable way. Gunnebo offers physical gate solutions which have been developed and designed individually for all different access management applications inside a modern airport.



2. Automated Self-Boarding

Two gates for the same purpose - Automated Self-Boarding into an aircraft. Fully compliant with the latest AEA standards, self-explanatory use for PAX, frees up agents to take care of passengers with special needs. Gate comes with an interface to the Common Use or Dedicated PAX handling system..

BOARDING AREA

DEPARTURE LOUNGE

SECURITY CHECK-IN

CHECK-IN

1. Boarding Pass Check

Automated Boarding Pass Check prior to Security Check. Highly efficient Self-Checking if a passenger is holding a valid boarding pass. Gates come with an interface to the AODB or other airport database.

AIRPORT SECURITY SOLUTIONS

Self-Service has become the buzz-word in the entire aviation industry. Not only because passengers are becoming more and more used to all kinds of self-service terminals like Self-Check-In Kiosks, but also because they want to check-in at home or remotely with a smart phone. When arriving at the airport this autonomous self-controlled journey is expected to be continued when presenting the boarding pass in front of security, during the passport check at the immigration counter and when boarding the aircraft.

Following the latest **IATA guidelines**, Gunnebo provides the latest and most comprehensive automated gates for all these applications. Increased security, lower labour costs and a fast and convenient PAX journey through an airport are the benefits generated by Gunnebo's solutions.

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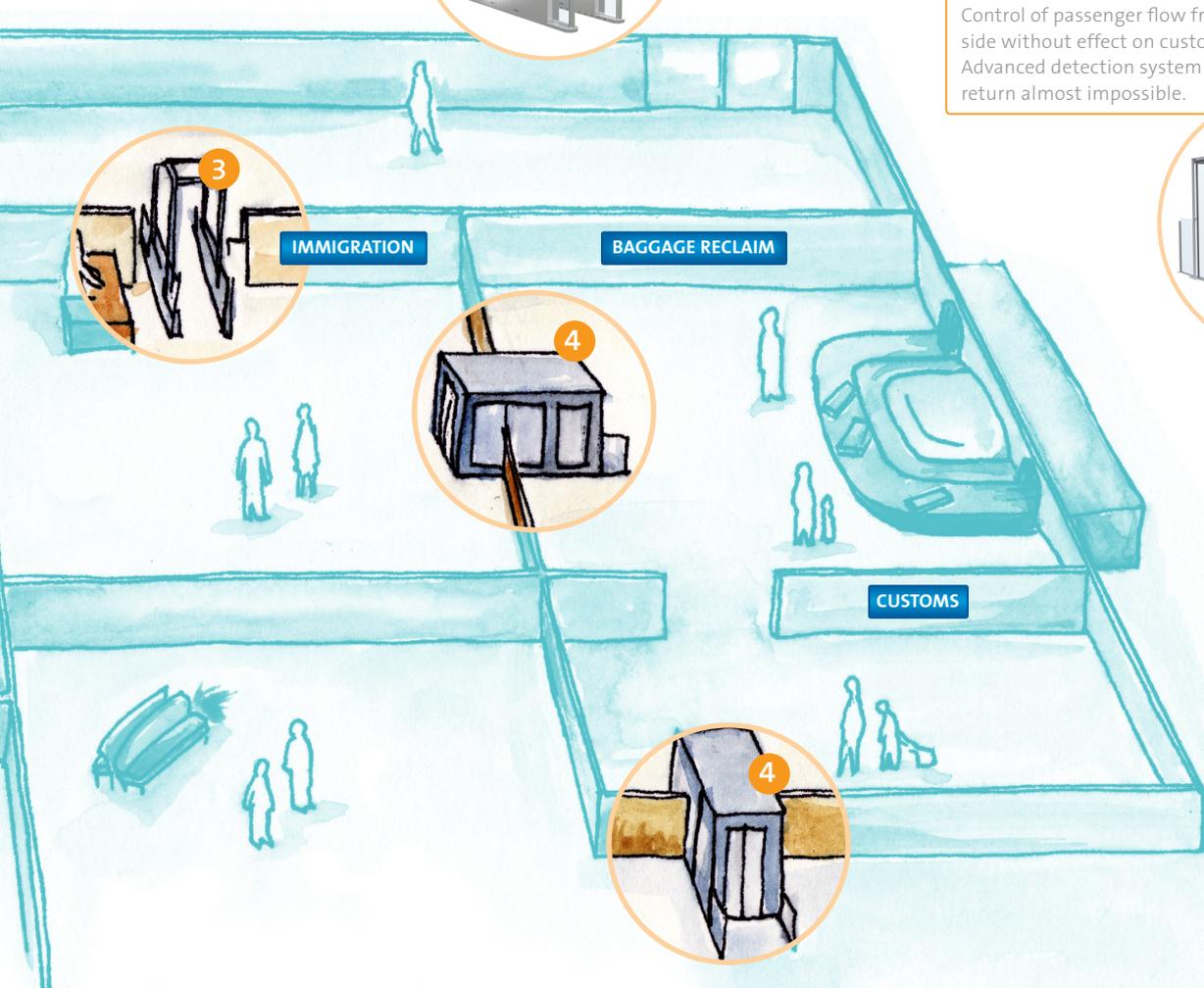
3. Automated Immigration

Cross-border security and biometric verification. Accelerates and automates whilst increasing security but reducing waiting time.



4. Exit lane breach control

Control of passenger flow from air to land side without effect on customer experience. Advanced detection system making passage return almost impossible.



Of course any cost and time saving benefits are not able to jeopardise the high level of security required in airports and the safety of passengers while using Gunnebo's gates. With the company's wide range of experience in processing all sorts of passengers through their gates in Mass Transit applications, Gunnebo is able to provide the latest smart sensor-based detection system. Unauthorised entry attempts like **tailgating** is reliably detected and passengers with carry-on luggage like trolleys or rucksacks are safely recognised.

In perspective of an even higher security and an enhanced passenger comfort, Gunnebo's Boarding Gates can be equipped with biometric identification systems like **Face Recognition** cameras or barcode-scanners with **NFC** reading capability.

Gunnebo - the specialist for fully automated passenger access management solutions.

PreSec

Security checking of boarding pass validity

Airports are obligated to only give access to the secured Airside area to people holding a valid boarding pass for a flight departing the same day. This check can be executed manually by airport staff or by Gunnebo's much more efficient and faster PreSec FL and FP gates. Whether a passenger is holding a boarding pass printed at home or at the airport or uses a smart phone or is already geared up for NFC technology, the scanners in Gunnebo's gates can read any form of boarding pass and are fast and reliable.

In addition to fulfilling the obligation of checking boarding passes prior to the security check, Gunnebo's gates provide many more benefits. Through serial or TCP/IP based communication between the gates and the AODB (or any other database) valuable data can be collected and useful reports or statistics about passenger behaviour, peak-time traffic and the status of the gates can be generated. With optional extension modules, it is even possible to use the PreSec gates for implementing a highly accurate queue management system.

In combination with an integrated biometric identification system (e.g. facial) it is possible to execute a secure and hands-free ID check inside the gate. This brand new feature increases the comfort and security up to a new level of passenger experience.

Benefits – PreSec AFL or AFP

- Short-term ROI with huge savings in labour costs
- Increased throughput (up to 60 passengers per second)
- Provision of valuable passenger data and statistics
- Platform for implementation of accurate queue management
- Biometric identification





BoardSec

Automated Self-Boarding

Checking the boarding pass of each individual passenger boarding an aircraft is a must for every airline. However, this obligation takes time and demands the full attention of the agents responsible for executing this duty. Using Gunnebo's BoardSec FP & FL, the vast majority of the passengers can check their boarding passes themselves. Just the same as a manual BGR, the confirmation from the related airline host comes within milliseconds. Once received the gates give access for the passenger to move forward to the aircraft.

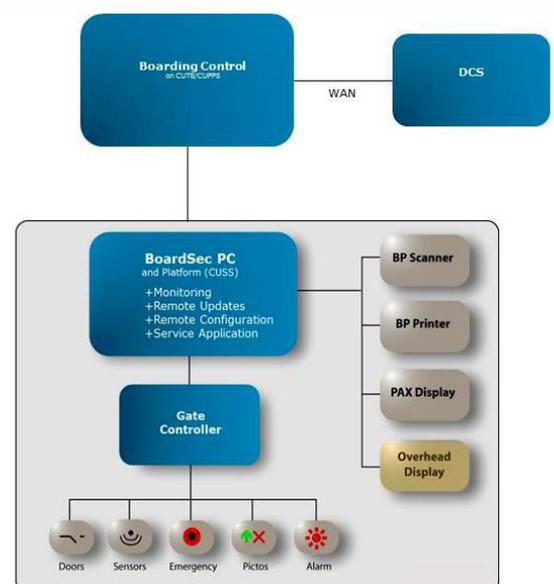
With Gunnebo's BoardSec FP and FL, the flow of passengers on to an aircraft is controlled and managed in a safe and secure way. Agents can use their precious time to concentrate on passengers who need extra attention and support. Due to the certified full compliance with AEA 2007 - 2012 standards, both gates can easily be integrated into any Common-Use environment. Even the integration in dedicated environments can easily be realised.

With the integration of an optional biometric identification system (e.g. facial), it is possible to use Gunnebo's gate not only for domestic but also for international flights. The comparison of the face picture with the enrolled biometric data provides a secure, fast and convenient ID-Check inside the gate.

Benefits – BoardSec AFL or AFP

- Shortened ROI with huge savings in labour costs
- Flights can be closed earlier, shorter parking time
- Less unpleasant queuing for passengers
- Relief of manual work from agent who has more time for exception handling
- Fast, convenient and secure ID Check with biometric identification (e.g. facial)

Self-Boarding Architecture



YOU HAVE THE CHOICE

Two different gate models available for both Pre-Security and Self-Boarding

BoardSec AFL

Aesthetics meets reliability

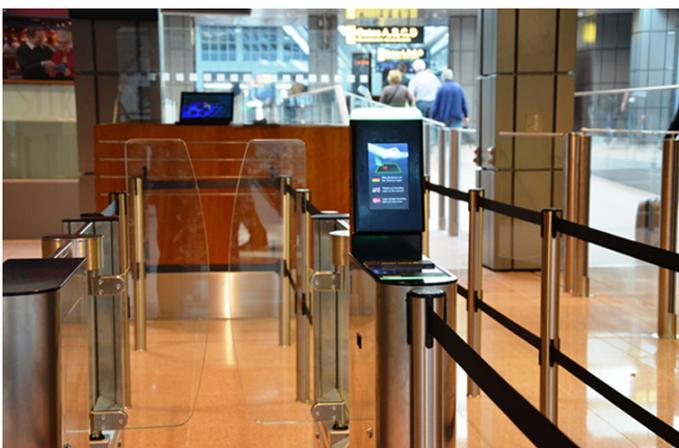
The outstanding design of this Gate is mainly the result of feedback and requirements from the aviation market. Airports and airlines who had experienced the limitations of other gates provided the input which Gunnebo used for creating this gate.

This gate offers smallest space occupation with housing that is only 170mm wide on the entire length. Full-height scratch resistant glass panels moved by an industrial long-lasting motor drive technology guarantee highest security and longest life time.

One of the highlights of this gate is the highly sophisticated sensor logic inside the gate. It detects securely any unauthorised passage attempt like tailgating as well as preventing any person with carry-on luggage being hit by the gate panels. On top of this, it is possible to process more than 60 passengers per minute.

The features of the gate follow the latest IATA requirements in regards to self-service in general and in particular convenient self-boarding. The optional facial recognition is fully integrated in the gate design and very easy for passengers to use.

Without doubt, this gate is the perfect solution for any Pre-Security Boarding Pass Check or Automated Self-Boarding project at airports where limited space is available and where there are high expectations on aesthetic design and appearance.



Benefits – BoardSec AFL

- Smallest footprint in the industry
- Passenger throughput up to 60 per minute
- Fully AEA-2013 compliant and certified
- Highest durability, MCBF: 10 million cycles
- ID Check with biometric identification (e.g. facial)
- Full NFC-reading capability

YOU HAVE THE CHOICE

Two different gate models available for both Pre-Security and Self-Boarding

BoardSec AFP

Highest security combined with most convenient passage

If security and fraud prevention are among the priorities of an airport or airline, this Gate is without doubt the best solution. The retractable full-height panel mechanism provides the advantage of designing this gate with a much shorter safety zone compared to any other gate with swing panels. This means that the panels can be closed much earlier after a passenger has gone through the gate. Unauthorised passage like tailgating can not only be detected, but also, in many cases, be prevented. As a result of the tempered (toughened) safety glass panels, the BoardSec FP appears to be really secure and resistant against fraud.

However, the 16 sensors located at the most suitable positions over the entire length of the gate are not only used for security purposes, but also they guarantee a very high safety against false alarms. The very short safety zone lets the gate clearly differentiate between passengers with their carry-on luggage and another person.

In addition to all the security and safety features, this gate can also be equipped with a Biometric Identification System (e.g. facial) and BGRs with NFC reading capabilities.

Whether the gate is to be used for Pre-Security Boarding Pass Check or Automated Self-Boarding in a dedicated or common use environment, it is the perfect gate solution with high security and safe PAX experience.



Benefits – BoardSec AFP

- Best security and safety performance
- Highly sophisticated sensor logic
- Reliable prevention against unauthorised passages (e.g. tailgating)
- Highest durability, MCBF: 8 million cycles
- ID Check with biometric identification (e.g. facial)
- Full NFC-reading capability

ImmSec

Cross-border security and biometric verification

Border control is one of the most security-sensitive areas in an airport. It requires accurate identification of incoming passengers which is often time-consuming.

Gunnebo's ImmSec immigration gate is an automated solution that speeds up the whole process, while ensuring that only one person is allowed entry per authorised passage.

Depending on government legislation, ImmSec can be integrated with readers for smart ID cards, MRTDs and RFID passports, as well as biometric capture technology

Benefits - ImmSec

- Accelerates the immigration process
- Automates the entry process and collection of data
- Increases security with integrated biometrics technology and single passage detection
- Minimises queues and queuing time
- Reduces staff costs
- Disabled compliant



Step by step

1. Entrance

A green arrow indicates that the gate is available for use.

2. Identification

The passport or smart card ID is presented to gather passenger identification data.

3. Information

Biometric data is captured and passport/ID data compared to the "watch list".

4. Passage

The gate is opened to allow the passenger to enter.

5. Verification

Real-time biometric data is matched against the captured data. The gate performs a single person scan and allows exit.

6. Next Person

Once clear, the gate performs a left item scan and is ready for the next passenger.

>> ANTI-RETURN GATES

*Speed and
simplicity
of movement
is critical*

PasSec

Passenger flow control from airside to landside

The PasSec has been designed to allow free passage and is usually situated between Immigration and Baggage Reclaim to detect and prevent passengers returning or passing from the low security area back into a higher security zone.

This gate is equipped with an array of sophisticated sensors used to detect presence and direction of passage. With additional sensors, left items and thrown back objects can also be detected, both of which could represent a security threat. Since speed and simplicity of movement are critical the gates are designed to be fully automatic demanding no

Advanced Detection System

Sophisticated sensors make doubling back almost impossible. They detect presence and direction of movement, as well as left items.

interaction with the passenger and are built to deal with high passenger throughput.

PasSec is available as a single or double door module or at its most secure as a double door module with interlocking.

Benefits -PasSec

- Controls passenger movement from secure to non-secure areas
- Improves security with advanced detection system
- Allows high throughput with no passenger interaction
- Reduces staff costs
- Disabled compliant



Ensuring Value and Customer Satisfaction

With years of experience delivering security solutions, we know how to create value for you and your business. That is why we have made Services an integrated part of our business.

At every stage of our relationship with you – from the first meeting through to delivery, installation and after-sales support – we will act as your security partner, listening to and addressing your security needs.

With our security experts, skilled technicians and professional support staff, Gunnebo is always on hand to give you the assistance you need, when you need it.

The result is a lasting partnership, built on business knowledge, customer focus and added value.



Airport



Why choose Gunnebo?

- Two different gate models available for both Pre-Security and Self-Boarding
- Fully certified and compliant with IATA guidelines and AEA requirements
- Modular with endless design options - Adaptable to specific requirements
- Secure and safe detection - Seamless PAX flow with highest throughput
- Gates made for high volume - Proven reliability for lowest cost of ownership
- Gates equipped with the latest smart sensor-based detection system
- Gates equipped with Biometric Identification Systems
- Pre-Security and Boarding Gates with smallest footprint in the industry

Gunnebo - The specialist for fully automated passenger access management solutions

[Simplifying processes, improving passenger experience](#)

The Gunnebo Security Group is a global leader in security products, services and solutions with an offering covering cash handling, safes and vaults, entrance security and electronic security for banks, retail, CIT, mass transit, public & commercial buildings and industrial & high risk sites.

The Group has an annual turnover of €610 million, employs 5,600 people and has sales companies in 33 countries across EMEA, Asia-Pacific and the Americas as well as Channel Partners in over 100 additional markets.

Gunnebo - we make your world safer.

www.gunnebo.com

