Entrance Security Systems for Office Buildings

Your Comprehensive Guide to Modern Office Building Entrance Control Systems

GUNNEBO®
Entrance Control

Introduction

In an era where smart entrance systems and touchless access control are proving crucial for the office environment, Gunnebo Entrance Control presents this insightful guide to security.

As a global leader in entrance control solutions, we understand the evolving demands of the corporate world and the need for comprehensive solutions.

This guide is designed to support architects, specifiers and building managers with the knowledge and expertise required, from design and specification to project completion, maintenance and monitoring to create safe, efficient, and welcoming office environments.

From turnstiles to speed gates, and visitor management to advanced biometric authentication and smart control, we explore a wide range of options tailored to suit the unique needs of modern businesses. We highlight the latest technologies, industry best practices, and innovative strategies that ensure a seamless and secure entry experience for employees, visitors, and guests.

At Gunnebo, we are committed to providing more than just entrance control solutions; we offer peace of mind, convenience, and the utmost protection for your office spaces. Join us on this journey to discover the future of office building entrance control systems and how Gunnebo Entrance Control can be your trusted partner in achieving security excellence.

Entrance Control Solutions

To offer the right product type for your bespoke office development, we introduce six entrance control options, together with their features and benefits.

These are:

TRIPOD TURNSTILE

Hand-operated low-height turnstile with electromechanical turning tripod hub.

ENTRANCE GATE

Basic security low-height turnstile with motorised column and one or three wings.

SPEED GATE

Motorised entrance gate with swing panels, bi-parting wings or full-panel sliding panels.

FULL-HEIGHT TURNSTILE

Hand-operated full-height turnstile with electro-mechanical rotor column barrier.

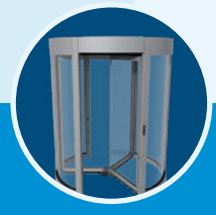
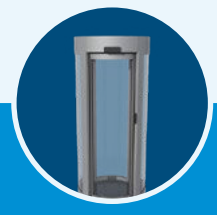
SECURITY REVOLVING DOOR

Motorised revolving door for simultaneous entry and exit.

SECURITY BOOTH

An interlocking set of sliding doors which can be used as an airlock system.

Comparison Table

Choice of System	 TRIPOD TURNSTILE	 ENTRANCE GATE	 SPEED GATE	 FULL-HEIGHT TURNSTILE	 SECURITY REVOLVING DOOR	 SECURITY BOOTH
Physical Security	*		*		***	***
Detection Security	**		*	**	****	****
Flow Rate						
Manned/ Unmanned				-	-	-
Footprint (Space required)	S	S M	M	L	L XL	L
Level of Investment						

* Depending on type
** Depending on ITC, ATT-ITC or SPD Options
*** Depending on BR and RC grades
**** Depending on NCI APB options

Terminology

ATT
Alarmed Tripod Turnstile – infrared sensors which detect someone jumping over or crawling under the arms of the turnstile.

ATT-ITC
Combined ATT and ITC sensors.

BR
Bullet resistance by European EN standards.

ITC
Improper Transit Control – an additional array of sensors which detect attempts at unauthorised passage. Also includes a sensitive top lid to detect attempts to jump over the entrance system. (Only available in combination with ATT sensors.)

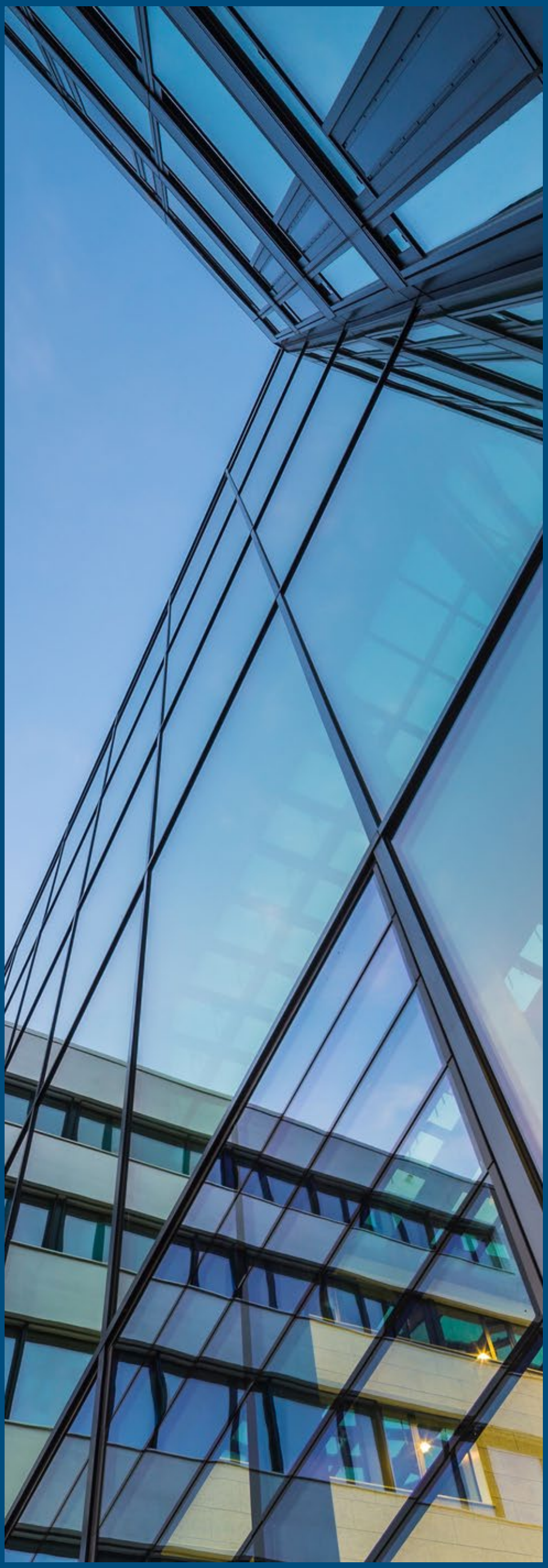
How does ITC help?
Without ITC, rotating the tripod will register a person as having entered or exited whether someone has passed through or not.

Improper Transit Control notices when someone badges and rotates the tripod hub but does not pass through the turnstile. When this is the case, the turnstile will not register the passage and an alarm is triggered.

NCI APB
Neuronal Network Camera Intelligence. A form of detection based on artificial intelligence.

RC
Physical resistance class by European EN standards.

SPD
Single Person Detection. A software upgrade to detect two people transiting in the same sector at the same time.



Integration with Access Control Systems

Entrance security systems can be integrated with a range of access control readers and peripherals including:

Cameras

Card Readers

Key Pads

Biometric Identification

Ticket Validators

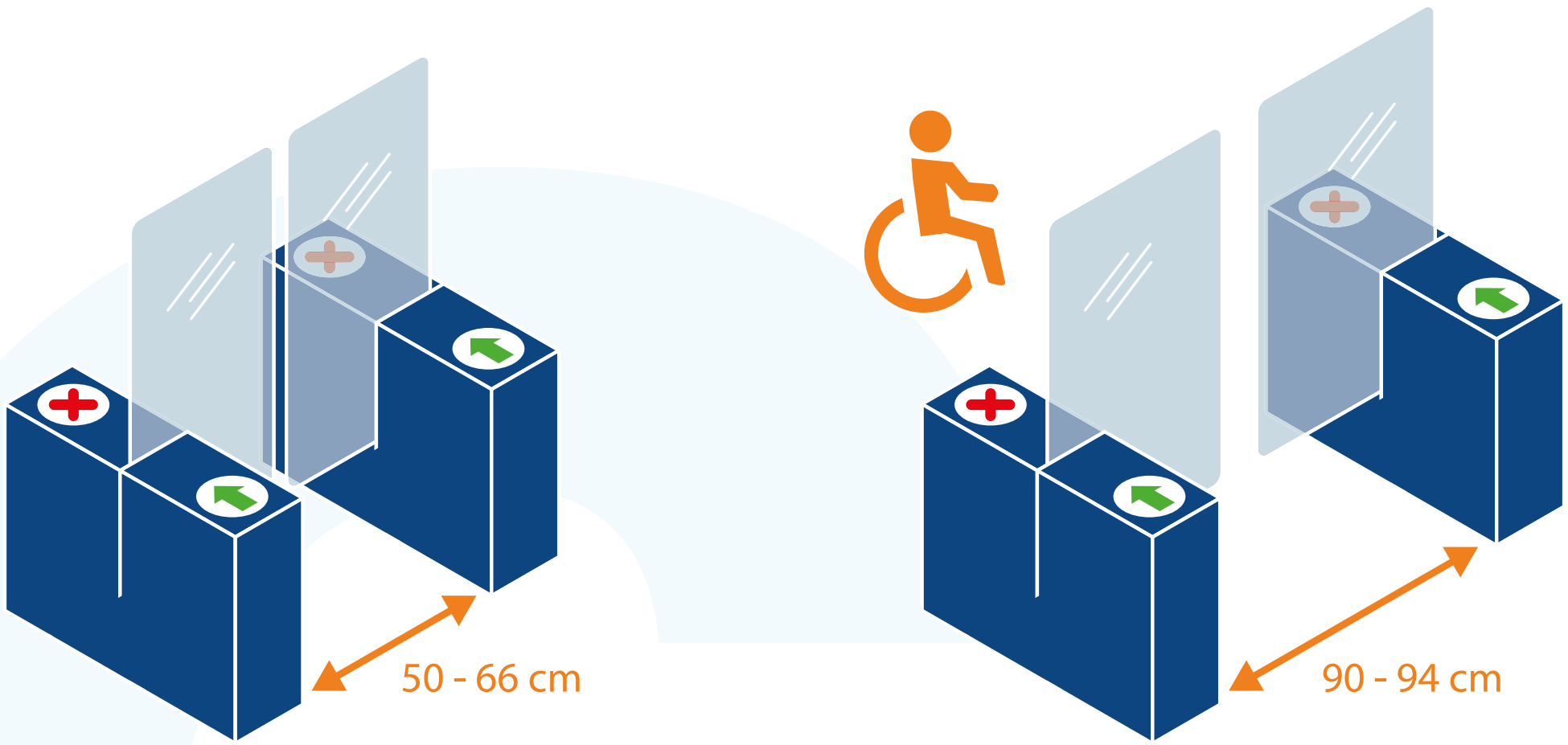
Token Collectors

Barcode Scanners

People Counters

Lane Width

There is an accepted standard width to allow passage which is designed to ensure that two people cannot pass through the entrance systems side by side.



Note: increasing the passage width also enlarges the gap between panels.

Physical Security Threats

Tailgating

Tailgating occurs when an unauthorised individual sees an entrance opportunity and sneaks into the building without consent.

Piggybacking

Piggybacking describes an unauthorised individual gaining access to a secure area by directly following an authorised person as they enter.

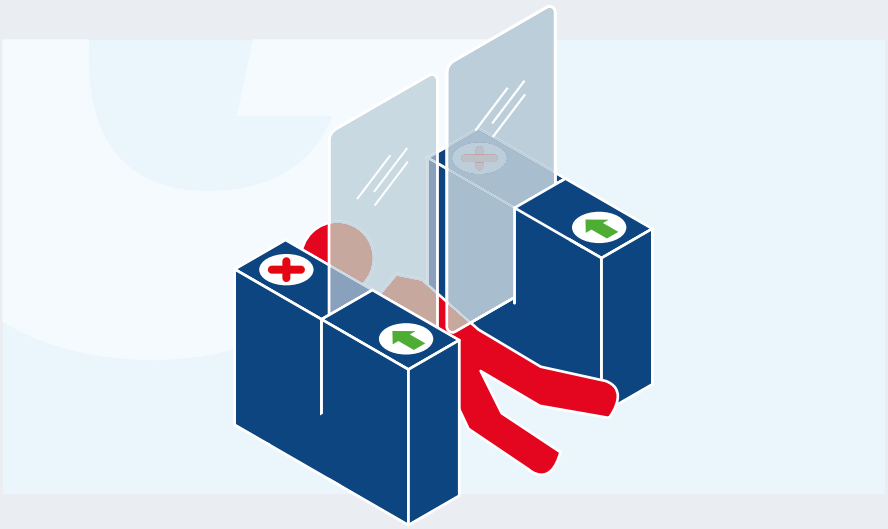
Wrong Way

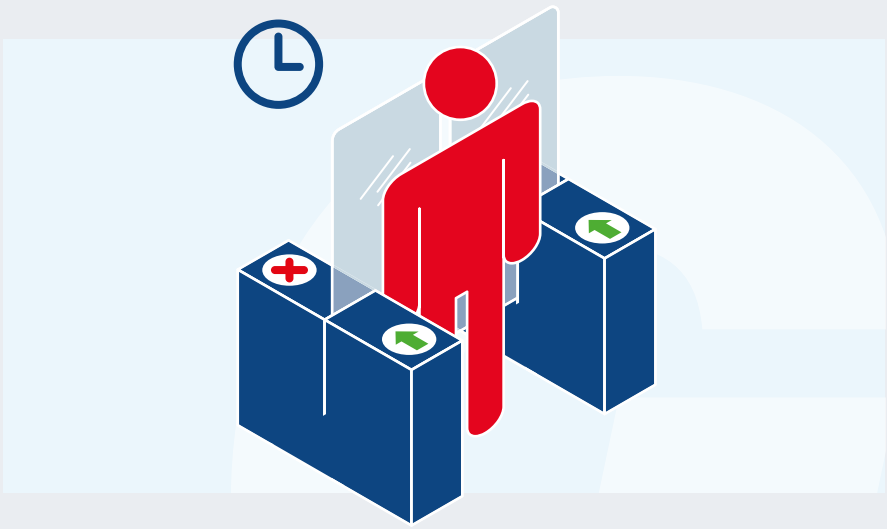
Wrong-way access is when an individual attempts to enter or exit through an entrance control system in a direction opposite to the one intended. This could be an unauthorised attempt to enter a secure area or an accidental mistake where someone inadvertently moves against the flow of permissible entry or exit.

Physical Security Threats

Intrusion

Intrusion refers to the act of individuals attempting to enter a secure area without the appropriate authorisation or access rights. It can also encompass the breach of security barriers or measures meant to control access.





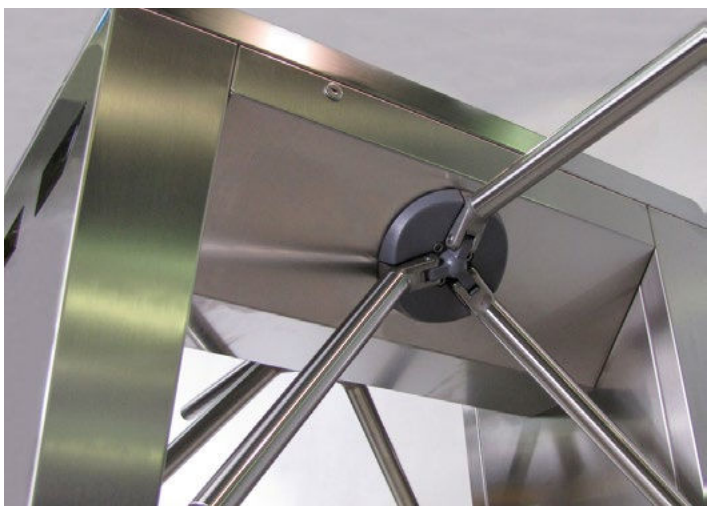
Leave Aisle Time-Out

Leave Aisle Time-Out is a predetermined temporary access period for an individual to pass through an access point, typically after presenting authorised access credentials. Once the person has entered the controlled area, they have a specific amount of time allocated. If they do not exit appropriately, the system may trigger an alert or take specific actions.

Tripod Turnstile

A tripod turnstile is an electromechanical turnstile with three arms. When passage is authorised, the individual manually rotates the arm and moves through. They offer a reliable and efficient solution, enhancing the security of an office building without compromising convenience. Their ability to balance security, crowd management, and access control makes them a wise choice for any environment looking to regulate entry and maintain a smooth flow of authorised individuals.

FEATURES	BENEFITS
Damped mechanism	Silent and Smooth Operation
Bi-Directional passage	Use for entry and exit
High operational reliability (More than 10mil MCBF)	Good for high traffic areas
Integration with access control	Suitable for a wide range of reader devices
Wall mounted option	Direct mounting to the wall without the need of the floor mounting pedestal
Drop arm option	On receipt of specific signal and on power failure
Passage confirmational signal	Enables anti-pass back and occupancy counting
IP44 Rated	For internal and external use



Entrance Gate

An entrance gate is a physical access control system designed to regulate the flow of individuals entering or exiting a secured area. They serve as both a physical barrier and a technology-driven solution to ensure only authorised individuals can enter secured areas, whilst maintaining the convenience and efficiency of pedestrian flow.

FEATURES	BENEFITS
Bi-Directional passage	Use for entry and exit
Reader integration option	Suitable for a range of standard RFID readers
Provides a physical barrier	Prevents unauthorised access
Minimal footprint	Optimizes space
High transparency	Minimal visual impact
Different heights of glass wings	Provides increased security with high glass if required (960mm - 1800m)
Tandem operation	Optimise space usage as well as provide best in class passage widths
Low operational noise level	Not audibly intrusive
150mm gap between bottom of wings and floor	Prevents unauthorised crawls underneath the glass panel
Efficient detection algorithms	Ensure detection and alarming in the case of fraudsters or misuse

Speed Gate

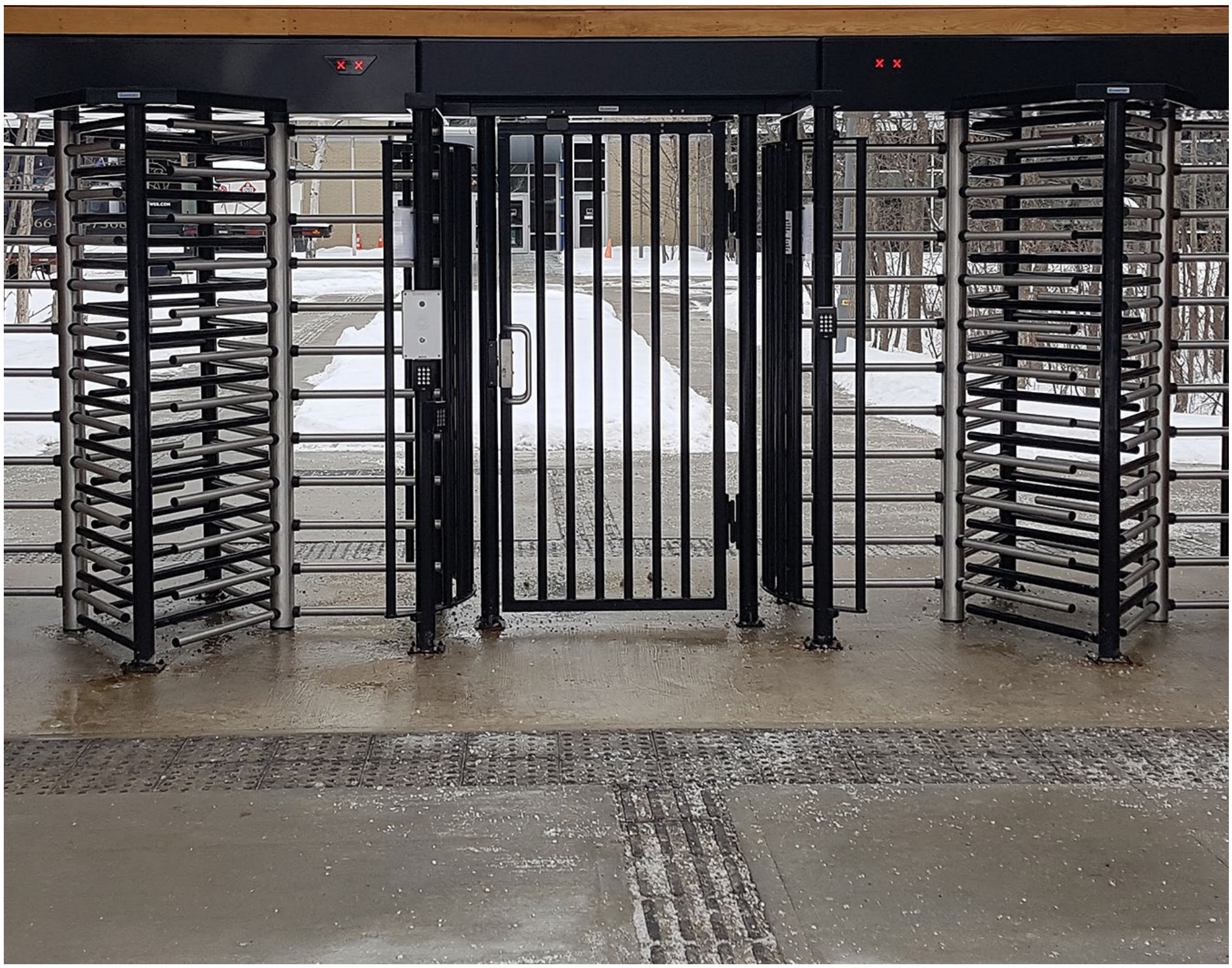
A speed gate is an advanced and efficient access control system designed to regulate the flow of individuals entering or exiting secured areas. Speed gates are characterised by their sleek and modern design, arranged in lines to provide stylish security and to seamlessly blend with their environment.

FEATURES	BENEFITS
Highly customisable finish in terms of material and colour	Customised to surrounding environment
Minimal Footprint	Optimising space available for additional lanes
Bi-Directional passage	Use for entry and exit
Reader integration	Suitable for a wide range of reader devices
Passage confirmation signal	Enables anti-pass back and occupancy counting
Configurable lane widths	Optimise space usage as well as provide the clear passageway for different user types
Way mode	Allows user to visually identify which passageway is available
Efficient detection algorithms	Ensure detection and alarming in the case of fraudsters or misuse
Optional climb on and over detection	Additional alarms detection of climb on and over, even when using high glass
High Reliability (More than 10mil MCBF)	Good for high traffic areas

Full Height Turnstile

A turnstile is designed to be full height and provide solid entrance control. With the capability to integrate with security technology and withstand harsh environmental conditions, they can be used for indoor and outdoor use to create a physical barrier with a high level of security, deterring unauthorised access, tailgating and piggybacking.

FEATURES	BENEFITS
Highly reliable electro-mechanical mechanism	Long service life and minimal downtime
Anti-reverse rotation during transit	Prevents unauthorised transit in the opposite direction
Barrier arms locked in closed position	Provides a physical barrier to stop unauthorised entry
Wide selection of materials and finishes	Customised to surrounding environment



Security Revolving Door

A security revolving door is a sophisticated and highly secure entrance control solution designed to provide controlled access to buildings and facilities. It consists of a motorised rotating door system that only allows authorised individuals to pass while providing an added layer of security. Security revolving doors are used in various environments where both stringent access control and enhanced security are essential.

FEATURES	BENEFITS
Tailgating detection	Prevents unauthorised person transiting in a different quadrant to the authorised user
Physical barriers locked in closed position	Provides physical barrier to stop unauthorised entry
Can offer certified resistance against ballistic and blast attack	Certified to EN 1627 manual attack resistance up to RC4 and glass and casework certified to EN 1063 and EN 1522 up to BR/FB 6
Simultaneous entry and exit	Strong flow rate (up to 48 people per minute)
Semi-external or internal installation	Can be installed on building facade with numerous options
Ceiling mounted drive and control	Can be installed directly on finished floor, drive and control easily accessible
Three wing version	Smaller footprint door with sufficient space for user comfort
Free passage	Entry and/or exit can be configured for access without authorisation
NCI Anti-Piggybacking detection option	Prevents piggybacking by stopping and reversing to reject users with extremely high accuracy in detection and unaffected by luggage and non-human presence
Tablet based user interface	Ease of ability to set perimeters without needing physical access to control electronics

Security Booth

A security booth is a physical structure or enclosure designed to enhance security at access points to buildings or facilities. Operating as an airlock, these booths feature an interlocking system composed of two doors, electronically connected. This means one cannot open until the other has closed. Using authorised identification, an individual must close the first door before the second door opens, allowing them to pass through.

FEATURES	BENEFITS
Automated interlocked door	Contactless entry and exit for the user and maintains a physical barrier between secure and unsecure areas throughout transit
Can offer certified resistance against ballistic and blast attacks	Glass and casework certified to EN 1063 and EN 1522 up to BR/ FB 6. Certified to EN 1627 manual attack resistance up to RC4
Customisable finish in terms of material and colour	Can be customised to match corporate or specified colour scheme
Semi-external or internal installation	Can be installed on building facade
Left item and metal detection option	Detects metal item being carried in to portal (AM5 and AM7 according to NILECJ standards).
EN 16005 Certified	Complies with regulatory safety standards
Cylindrical or squared versions	Allows flexibility on installation positioning as well as a choice of aesthetic
Free passage option	Entry and/or exit can be configured for access without authorisation
Ceiling mounted drive and control	Can be installed directly on the finished floor
Wide range of diameters available HiSec^2 6,7,9,10	Adaptable to installation constraints and different user requirements

EntraLinq

Entralinq is a powerful mobile app that allows authorised personnel to control and monitor access points remotely, providing flexibility and convenience. Users can easily grant or deny access through entrance control, receive real-time notifications, and view access logs.

This level of mobility and responsiveness enables quick responses to security events. It represents the modern approach to entrance control, offering a user-friendly and highly accessible solution for businesses and organisations seeking to bolster their security and streamline access management in their office environment.

How to make the right choice?

Gunnebo presents dedicated service experts ready to ensure minimum product downtime, with the specification of smart entrance control technology.

This is not only to ensure design, manufacture and installation are seamless but also that maintenance and administration are sustained for the benefit of office managers, employees and visitors.

Here are the issues we work through to create a bespoke solution for your office facility, taking into account the requirements of your team(s) and visitors.

1. Security

The goal is to create a secure and efficient access control system that meets the specific needs of your office environment. It requires a multifaceted approach that begins with perimeter protection and extends inward to intelligent entrance control systems, integrating access management.

2. Flow Rate

Determine the peak flow rate for your site to understand the number of individuals that can pass through the entrance system in a minute. Subsequently, choose a reliable solution that can effectively handle this level of throughput.

Balancing security and flow rate needs can be challenging. Higher security often results in lower throughput. It's crucial to analyse the specific patterns within your office building to strike the right balance.

Foot traffic patterns and access trends will differ between offices and buildings, especially if there are several businesses occupying one site.

Keep in mind that adding more lanes can maintain both high security and high throughput, but it also demands additional on-site space.

3. Design

'Office design' no longer refers to a workspace's functional and decorative elements – such as furniture and equipment. It considers the overall office experience, the well-being of those who use the space, sustainability and the level of collaboration businesses hope to encourage.

Entrance control is the same. Any security measures must be installed to blend and enhance the welcoming environments for visitors while ensuring the safety and well-being of employees. They should add to the overall look and feel of a reception area, not detract from it.

4. Compliance

Compliance with industry standards is paramount when selecting entrance control solutions for any office facility. These standards serve as a benchmark for security, safety, and operational efficiency, ensuring that chosen systems meet essential criteria.

Adhering to industry standards helps guarantee the effectiveness of security measures and demonstrates a commitment to best practices and the safety and well-being of occupants. By embracing these standards, organisations can instil confidence in employees, visitors, and stakeholders, creating a secure environment.

5. Smart and Mobile Solutions

Technological advancements have paved the way for intelligent entrance control security systems. These solutions, such as smart sensors, video analytics, and visual verification, enable proactive monitoring from anywhere, at any time using smartphone technology. This way building, facility and security managers can quickly respond to potential threats.

6. Training

After installation, it is crucial to provide facility, building and security staff with technical and operational training to ensure the effective utilisation of the entrance system.

The level of training required should be determined by assessing the system's complexity and evaluating how easily staff can grasp its functionality. In cases where the system is unfamiliar, allocate additional time to ensure a smooth transition and successful adoption.

One where the entrance control system can be used to optimise efficiency and streamline access to increase work productivity. All without compromise to design, or security.

Securing Office Design

To effectively protect an office building from potential security threats, it's crucial to acknowledge risks extend far beyond the front door.

Entrance Security

Prevent unauthorised access and control the flow of people through your site, with no compromise to design, specification or smart security technology.

Safes & Vaults

Protect your valuables, documents and critical data in certified fire and burglary-resistant safes.

Smart Security

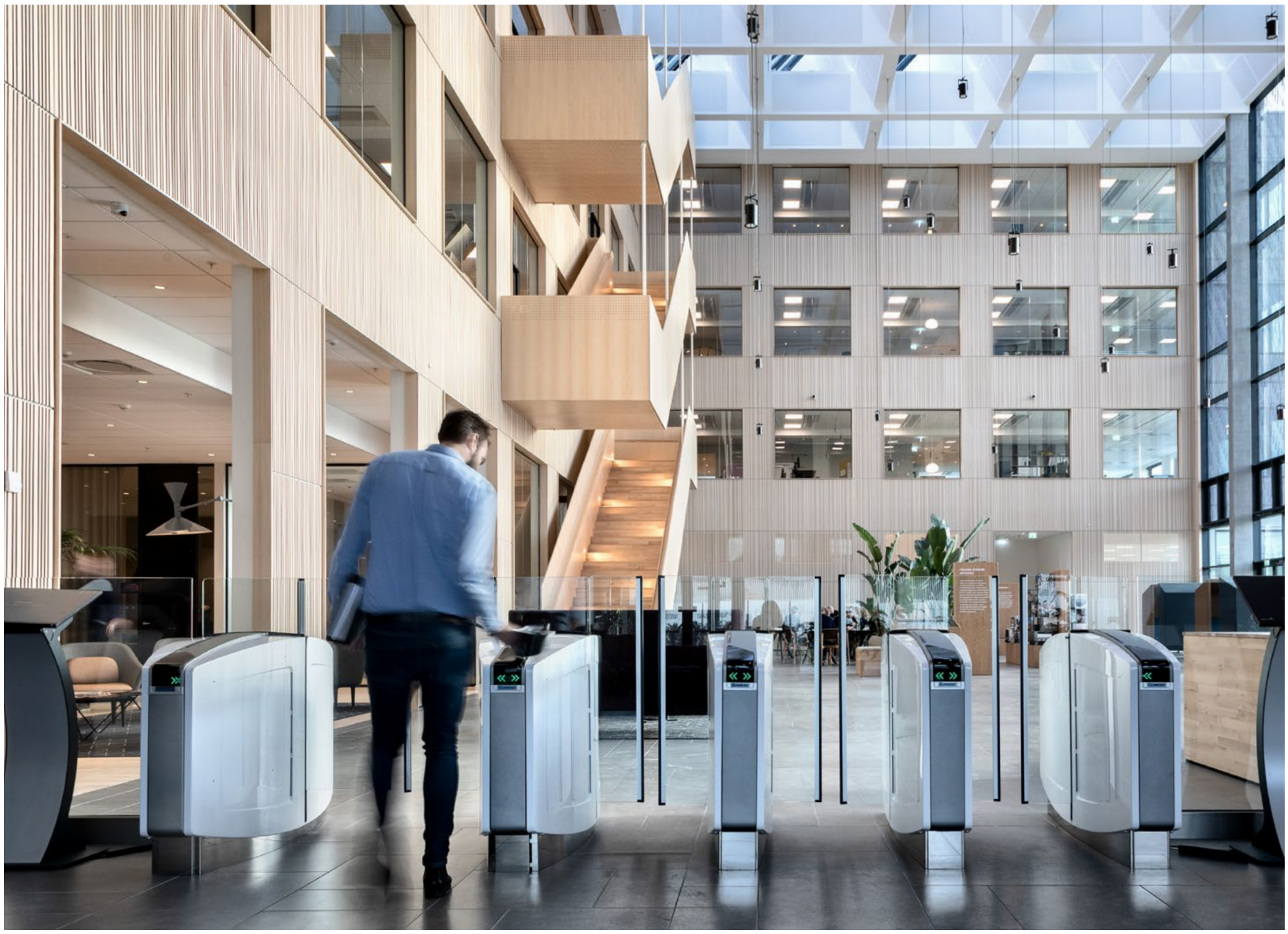
Secure your premises with integrated access control, with touchless and biometric access, intrusion detection and remote monitoring services available through a smartphone.

Security Services

Minimise operational expenses and optimize the efficiency of your security systems through preventative, corrective, and performance-enhancing maintenance services.

Partner with Experts

To preserve the integrity of your entrance control system and ensure continued protection, regular and dedicated servicing is essential. Choosing a dedicated partner ensures your systems are cared for to work optimally.



How can Gunnebo help?

Gunnebo Entrance Control, the global provider of entrance control solutions, has proven its capability to work with office buildings to enhance security, ensuring a safe environment for employees and visitors.

With a commitment to innovation and precision engineering, using the latest Gunnebo entrance control technology can increase security, future-proof buildings, and deliver automated, touchless efficiency.

Turnstiles, speed gates, and barriers can provide a robust defence against unauthorised access, tailgating, piggybacking and intrusion while allowing seamless entry for registered personnel.

With Gunnebo Entrance Control, building, facility and security managers can achieve optimal security and operational efficiency, safeguarding valuable assets as they continue to play a pivotal role in an increasingly digital world.

Our solutions are always tailored to customer needs and requirements, providing the most value and impact on their business. With the introduction of EntraLinq sites can be monitored remotely at any time to maintain a high level of security and quick response.

Gunnebo Entrance Control offers dedicated service agreements, created to suit bespoke requirements and backed with technical and sales support, available through a 24/7 helpdesk, enabling us to deliver rapid response.

Gunnebo Entrance Control is a global organisation with local network support working to define processes so that we can always be with our customers and operate as a partnership.

For more information on Gunnebo Entrance Control's range of entrance control solutions for office buildings, please visit **www.gunneboentrancecontrol.com**

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