



Airports

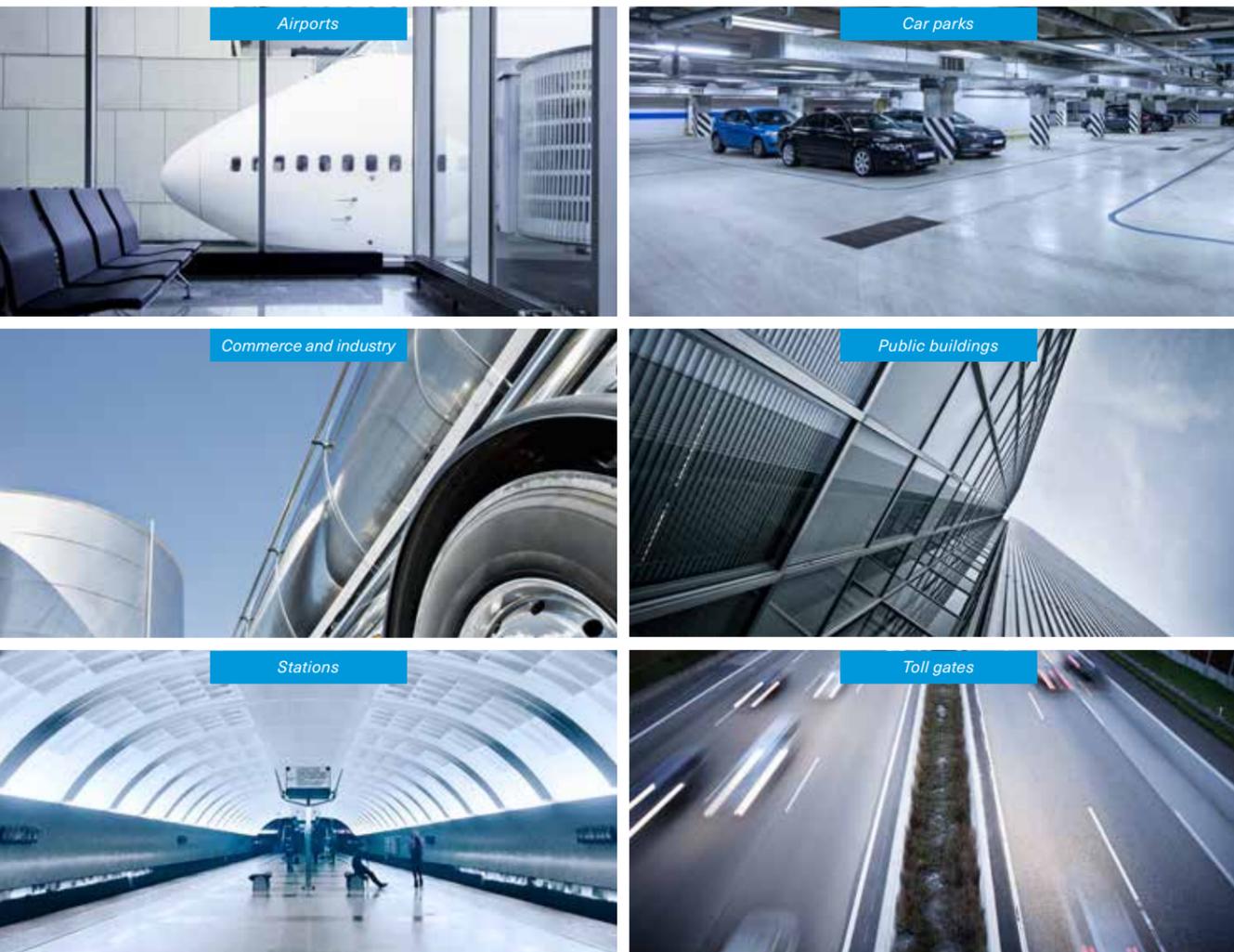
Specific solutions

“Adaptions to our often varied conditions – no problem, thanks to the high level of functionality of the barriers from Magnetic.”

FRAPORT AG
Rainer Nicolaus-Blank

MAGNETIC: FOR YOUR APPLICATION

You want to control traffic? Regulate access to secure areas?
Or inspect tickets and check identities? Find out what Magnetic offers for your area of application!
What can we do for you?



Airports face major challenges: air traffic is growing more strongly than any other means of transport. Security requirements are also increasing. In addition to screening employees and isolating secure areas, the identification of passengers via database queries and biometric processes is becoming standard. Meanwhile, passengers are becoming increasingly demanding regarding comfort and waiting times.

This brochure describes solutions for all these challenges. As a producer of pedestrian and vehicle barriers, we provide you with all the important components required for automating airport processes. Our range covers vehicle barriers for car parks, pedestrian barriers for area security, and highly specialised solutions: Our Boarding and Immigration Gates have been specially developed to meet the needs of modern airports and make your processes more cost-effective, more rapid and more secure.

We have been collaborating with airport operators and system integrators worldwide for many years, and have comprehensive experience in the planning, installation and maintenance of access control systems in the airport sector.

Arno Steiner
Managing Director

Our solutions

Indoor and outdoor security



Immigration

Fully automatic Immigration Gates for determining the identity of travellers on the basis of travel documents and biometric data.

More on page 6–7

Area security

Pedestrian barriers for the secure separation of areas specifically for employees, security staff, VIP passengers and other groups of people.

More on page 12–13

Boarding

Boarding Gates for automated inspection of travellers' boarding data.

More on page 8–9

Security checks

Boarding Gates for automatic inspection of access rights to secure areas.

More on page 8–9

Parking

Rapid car park barriers with prevention of tailgating for reliable checking of tickets at all car parks.

More on page 14–15

Traffic management

Access barriers with high functionality, low operating costs and wide-ranging options.

More on page 14–15

Perimeter protection

Turnstiles and swing gates for reliable control of employees and service providers entering airport grounds.

More on page 10–11

Access control

Barriers and vehicle gateway control for regulating access to the apron and to other secure areas.

More on page 14–17

Immigration

Identity checks during arrival and departure



Our automatic inspection system has been developed to considerably accelerate identity checks during arrival and departure at airports whilst increasing security through biometric inspection. The automation of identity checks relieves security staff from routine tasks, giving them more time for passengers who really need assistance.

Low impact forces and sensitive sensors ensure maximum safety for users. The low-maintenance and energy-efficient drive unit also keeps costs down in the long term.

Passport readers and scanners for fingerprints, iris patterns and facial recognition can be individually integrated as required. We would be pleased to provide advice!

- > Reliable identity checks whilst relieving security staff
- > Dependable identification via biometrics and identity documents
- > Short throughput cycles for high passenger numbers
- > Simple integration in existing security architectures
- > Permanent low costs through efficient low-maintenance technology

Detection of travel documents – installation options



Kiosk at the entrance barrier

Mounting the kiosk at the entrance barrier makes sense when database queries are possible within a short time. This ensures that the identification process is as quick as possible.



Central kiosk

A central kiosk is practical when comprehensive database querying takes place. The security queries run while the user is on the way to the exit barrier. Only the biometric comparison takes place at the exit barrier.



Immigration Gate

Fully automatic gate for checking conformity between travel documents and biometric features during arrival and departure at airports

The scanner at the entrance reads out the personal and biometric data in identification and travel documents and opens the entrance barrier. Identity is checked after entry on the basis of the biometric data (via fingerprint, iris pattern or facial analysis). The exit barrier opens when the match is successful. If there is no match, or the person is wanted by the police or other authority, both barriers remain closed and an alarm is triggered.

- > Maximum security via comparison of biometric data
- > Intuitive and user-friendly identification process
- > Simple installation, setup and integration in higher-ranking systems



Examination of travel documents

The personal biometric data stored in the passport are read out on entering the Immigration Gate and can be compared with the databases of security authorities.



Inspection of identity via biometrics

Biometric sensors inspect whether the data stored in the passport match those of the person in the Immigration Gate. Access is permitted when identity has been confirmed.



www.magnetic-access.com/immigration-gate

Biometric detection – installation options



Installation in the column

The installation column is the simplest structural solution. It is mounted at the end of the Immigration Gate and offers space for the most varied of camera systems. The passenger's eyes are directed towards the camera in the column by means of symbols on the floor.



Installation in the bridge

The bridge at the end of the Immigration Gate not only offers space for the camera system of your choice, but also for a screen that guides users through the recognition process step-by-step.



Installation in the exit barrier

Installation in the exit barrier is the most user-friendly solution because the user directly approaches the camera. The height-adjustable camera element in the swing door can move precisely to face height, and is thus also suitable for highly accurate inspections.

Boarding

Ticket inspection on the way to the plane



We have developed our automated boarding system in order to accelerate the path of passengers from the terminal to the airplane via the security area and the departure gate.

The automatic checking of boarding passes also relieves security staff of routine tasks so that they have more time for passengers who really need assistance.

The low impact forces and sensitive sensors of the barrier elements ensure maximum safety for users. The low-maintenance and energy-efficient drive unit keeps costs down in the long term.

Scanners for boarding passes, smartphones and other control media can be individually integrated as required.

- > Acceleration of the boarding process with reduced personnel
- > Reliable detection of access authority via the boarding pass
- > Rapid user-friendly throughflow for passengers
- > Simple integration in the airport's data processing system
- > Permanent low costs through efficient low-maintenance technology



Boarding Gate

The inspection of boarding passes at the entrance to the security area ensures that only passengers who have a valid ticket can access the security area and the departure gates. A second inspection before entering the airplane offers operators an uncomplicated opportunity to check who is already on board, and provides an alarm if passengers want to board at the wrong gate.

- > Simple identification by placing the boarding pass on the reading device
- > Easy installation and straightforward maintenance



Inspection of boarding data

The boarding data on smartphones or boarding passes are automatically detected and can easily be compared with the airline's passenger data.



Improved service

Our Boarding Gates relieve airport employees of routine tasks. They therefore have more time to assist wheelchair users, senior citizens or passengers with small children.



www.magnetic-access.com/boarding-gate

Boarding Gates from Magnetic – your advantages



Readout of boarding cards

Numerous reading devices for printed boarding passes and digital codes on smartphones can be integrated. A display guides users through the boarding process step-by-step.



Simple integration

Boarding Gates from Magnetic can be equipped with all common reading devices and interfaces. Thus integration in existing data processing and security architectures is particularly simple.



Rapid inspections

The passenger lays the boarding pass, or the smartphone with the boarding code, on the integrated scanner. The gate permits passage if the data comparison is successful. Large numbers of passengers can therefore be checked within a short time.



Safe processes

Photoelectric switches in the gate reliably detect persons and objects. They enable non-contact throughput and raise the alarm in the case of unauthorised use.



Innovative drive technology

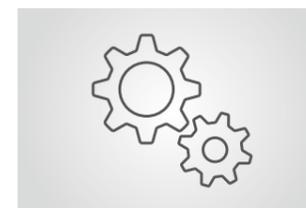
The Boarding Gate's drive unit is low-maintenance and operates particularly energy-efficiently and quietly. The sensitive impact detection system ensures maximum safety.

Perimeter protection

Access control for outdoor areas



The outdoor areas of airports are a major component of the security-critical infrastructure and must be protected against unauthorised access. Turnstiles from Magnetic are the robust and reliable solution for efficient access control outdoors when a large number of employees, suppliers and external service providers need to enter or leave the grounds within a short time. The turnstiles are easily integrated in the existing architecture or fencing system and – thanks to their size and robust design – offer a high level of security.



Innovative drive technology

The MHTM™ drive unit (optional) requires no maintenance, operates energy-efficiently, and is characterised by particularly gentle start-up behaviour.



Maximum safety

Low impact forces and sensitive impact detection offer optimum protection for persons and means of transport.

The turnstiles can be ideally adapted to your requirements due to the variety of models and attachments: gates with single and double turnstiles can be installed depending on the frequency of use, and a swing door can be integrated to permit barrier-free passage for wheelchair users and the transport of materials. A special solution is available for access with bicycles.

- > Reliable protection of outdoor areas with high throughput frequencies
- > Sensitive impact detection for maximum user safety
- > Rapid access to components for simple installation, commissioning and maintenance
- > Passage possible for wheelchair users, bicycles and material transport
- > Designed for 10 million passage cycles



MPT single

Turnstile for reliable control of access to the apron and other outdoor areas with high throughflow rates

- > Mechanical, electromechanical or motorised designs
- > Regulation with all common access control systems
- > Useable in both directions of passage



www.magnetic-access.com/mpt-single



MPT double

Double turnstile for simple installation of two separate passages where space is severely limited

- > Useable as a double entrance, double exit or combined entrance and exit
- > Mechanical, electromechanical or motorised designs
- > Regulation with all common access control systems



www.magnetic-access.com/mpt-double



MPB

Turnstile with bicycle gate for reliable access control for cyclists and bicycles

- > Simultaneous access for cyclist and bicycle
- > Induction loop detector for bicycle detection
- > Regulation with all common access control systems



www.magnetic-access.com/mpb



MPG

Swing gate with large opening width for material transport, bicycles and barrier-free access for wheelchair users

- > As a free-standing variant or expansion for MPT turnstiles
- > Induction loop on one or two sides for detection of bicycles and wheelchairs
- > Regulation with all common access control systems



www.magnetic-access.com/mpg

Area security

Access control in terminals



When steering passengers, monitoring employees and implementing security regulations at airports it is important that each target group can only gain access to the intended areas. Magnetic offers a comprehensive range of pedestrian barriers for fully automatic delimitation and securing of individual areas.

You will find the right pedestrian barrier from Magnetic for every application and every structural environment – thanks to the differing designs, speeds and security levels. And in every case our maintenance-free and energy-efficient MHTM™ drive unit ensures safe user-friendly operation and permanently low operating costs.

- > For low, medium or high security requirements
- > Space-saving installation of multiple applications
- > Simple integration of all common access control systems
- > Automatic opening in case of power outages or alarms
- > Designed for 10 million opening and closing cycles



MPR

Retractable barriers with extremely short opening times for high throughput rates in areas with low to medium security requirements

- > Short opening times of minimum 0.3 s for extremely rapid separation
- > Non-contact passage, and alarm on unauthorised use
- > Wide variants for wheelchairs, prams and material transport



www.magnetic-access.com/mpr



MPP

Robust turnstile for versatile indoor and outdoor use, meeting low and medium security requirements

- > Rapid separation, even with high throughflow rates
- > Optional drop-arm mechanism allows free passage during power outages and alarms
- > Available with long, short and tall housings



www.magnetic-access.com/mpp



MPH

Retractable barriers with glass barrier elements for efficient access control when entering high-security area

- > High door elements of up to 180 cm for effective climb-over prevention
- > Rapid non-contact passage
- > Wide variants for wheelchairs, prams and material transport



www.magnetic-access.com/mph



MPS

Swing door in timeless design for use in high-quality environments with low to medium visitor frequencies

- > Control system and drive entirely integrated within stainless steel cylinder
- > Wide passage for wheelchair users and material transport with two MPS units
- > Barrier element made of safety glass, stainless steel tube or as desired



www.magnetic-access.com/mps



MPW

Swing gates for rapid separation of larger numbers of persons entering areas with medium security requirements

- > Short opening times of minimum 0.6 s for rapid non-contact separation of persons
- > Transparent barrier elements made of acrylic or safety glass
- > Wide variants for wheelchairs, prams and material transport



www.magnetic-access.com/mpw

Access control

Traffic management and ticket checks



Traffic management requirements at airports are highly varied. They range from regulating the numerous suppliers and service providers on the apron, through control of arriving and departing traffic in front of the terminal, to checking tickets in the most varied of parking areas. Magnetic offers long-lived solutions for all these cases.

Barriers from Magnetic can be individually adapted to the specific requirements of the deployment location thanks to the differing barrier widths, speeds and equipment options available. All the barriers use our maintenance-free and energy-efficient MHTM™ drive unit and ensure safe and reliable operation, as well as permanently low operating costs.

- > Very low operating costs due to efficient MHTM™ drive
- > Highly user-friendly with optimum accessibility
- > Legal security through Conformity and Performance Declaration
- > Design has won several awards
- > Designed for up to 10 million opening and closing cycles



Access Pro-L

Versatile access barrier for traffic management and access control for wide roadways

- > High functionality for barrier widths of up to 6.0 m
- > Approved for use with pedestrian traffic
- > Individually adaptable control via plug-in modules



www.magnetic-access.com/access-pro-l



Parking Pro

Parking barrier for checking tickets at car parks and heavily frequented parking spaces where pedestrian traffic can be ruled out

- > Reliable processing through detection of tailgating vehicles
- > Very short opening and closing times of minimum 1.3 s
- > Articulated boom (option) for use where height is limited



www.magnetic-access.com/parking-pro



Access Pro

Versatile access barrier for car parks, apron and other outdoor facilities

- > High functionality for barrier widths of up to 3.5 m
- > Approved for use with pedestrian movement
- > Individually adaptable control via plug-in modules



www.magnetic-access.com/access-pro



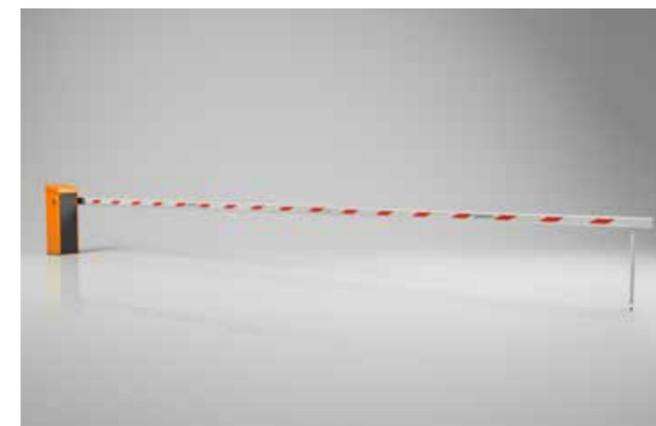
Access Pro-H

Access barrier for skirts or skirts with climb-over prevention (options) for controlling access to security-relevant areas

- > High security with barrier widths of up to 6.0 m
- > Climb-over prevention of up to 180 cm stops access by intruders
- > Approved for use with pedestrian traffic



www.magnetic-access.com/access-pro-h



Access XXL

Access barrier with large barrier widths for delivery traffic to terminals and the apron

- > Suitable for wide truck entrances through barrier width of up to 10.0 m
- > High security through skirt and climb-over prevention (option)
- > Approved for use with pedestrian traffic



www.magnetic-access.com/access-xxl

Access control

Vehicle gateway with identity check



We have raised the identification of persons and vehicles to new levels with the TerraPass® system solution. Inspection takes place fully automatically by means of terminals that directly approach the vehicle's windows and request identification from the occupants. The automated process increases identification security through the use of biometric methods and the possibility of carrying out database enquiries whilst largely ruling out tampering.

You can thus use TerraPass® to reduce personnel costs and considerably increase security on the basis of identity checks.

- > Reliable regulation of persons and vehicles without personnel
- > Large, easily adaptable installation space for all desired control systems
- > Dependable identification via biometry, ID documents or code cards
- > User-friendly use directly from the vehicle window
- > Optical sensors provide maximum safety for occupants and vehicles

Access control

Terminals for control systems

Apart from the barriers, the possibility of interacting with the road users is also necessary at terminal car parks, for controlling access to the apron, and for traffic management in arrival and departure areas. Gate Terminals from Magnetic offer installation space for all the required access control systems, as well as particularly simple operation thanks to the telescopic front panel.

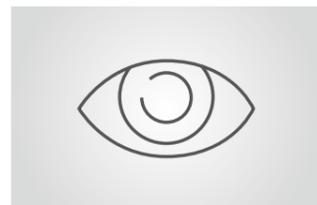


TerraPass®

Vehicle gateway with self-propelled terminals for checking identities of up to 4 persons in a vehicle

Vehicles drive into the gateway between the two barriers; the terminals approach the windows of the vehicle occupants and request identification via speech, documents or biometric features. The vehicle is permitted to leave the gateway after successful identification.

- > Reliable identification of persons and vehicles without personnel
- > Automatic, highly precise approach of terminals to vehicle
- > Simple software integration in higher-ranking systems



Identification via biometry

TerraPass® offers reliable recognition via biometric features. Fingerprints, facial geometry or the structures of the iris and retina can be detected using the appropriate modules, and compared with existing personal data.



Identification via documentation

It is also possible to implement identification via ID documents and code cards. ID cards and passports, as well as bar codes, magnetic strips and RFID chips can be read out with the appropriate modules and inspected by means of database queries.



www.magnetic-access.com/terrapass



Terminal-MS and Terminal-MH

Free-standing housings for accepting all required access control systems – designed for use from within cars

- > Suitable expansions for all barriers from Magnetic
- > Ideal for car parks and employee entrances
- > Simple access thanks to telescopic front panel



www.magnetic-access.com/terminal-ms-mh



Terminal-ML

Free-standing housing for accepting all required access control systems – designed for use from within cars and trucks

- > Suitable expansions for all barriers from Magnetic
- > Ideal for regulating suppliers in outdoor areas
- > Simple access thanks to telescopic front panel



www.magnetic-access.com/terminal-ml

MAGNETIC: ACTIVE WORLDWIDE FOR OUR CUSTOMERS.



- | | | | | | | | |
|---|---|---|--|---|---|--|--|
| <p>1 <i>Germany</i>
FRANKFURT AIRPORT
approx. 300 barriers</p> | <p>3 <i>Czech Republic</i>
PRAGUE AIRPORT
17 Immigration Gates</p> | <p>5 <i>Russia</i>
SHEREMETYEVO INTERNATIONAL AIRPORT MOSCOW
approx. 50 barriers</p> | <p>7 <i>United Arab Emirates</i>
DUBAI INTERNATIONAL AIRPORT
80 Immigration Gates</p> | <p>9 <i>Malaysia</i>
KUALA LUMPUR INTERNATIONAL AIRPORT
32 Immigration Gates</p> | <p>11 <i>Australia</i>
MELBOURNE AIRPORT
26 barriers</p> | <p>13 <i>USA</i>
NEWARK AIRPORT
10 barriers</p> | <p>16 <i>Brazil</i>
FORTALEZA AIRPORT
12 barriers</p> |
| <p>2 <i>Germany</i>
MUNICH AIRPORT
50 Immigration Gates</p> | <p>4 <i>Egypt</i>
CAIRO AIRPORT
80 barriers</p> | <p>6 <i>Saudi Arabia</i>
RIYADH AIRPORT
65 barriers</p> | <p>8 <i>India</i>
ADANI PORTS, MUNDRA, GUJARAT
62 barriers</p> | <p>10 <i>Australia</i>
PERTH AIRPORT TOLLGATE
10 barriers</p> | <p>12 <i>Australia</i>
SYDNEY AIRPORT
30 barriers</p> | <p>14 <i>USA</i>
PHILADELPHIA AIRPORT
70 barriers</p> | <p>17 <i>Brazil</i>
GALEÃO AIRPORT
30 barriers</p> |
| | | | | | | <p>15 <i>USA</i>
PORT CANAVERAL
approx. 40 barriers</p> | |

MAGNETIC: SUCCESSFUL WORLDWIDE.

Region	Country	Installation location	Immigration Gates	Barriers	Other Products
Europe	Germany	Munich Airport	✓		
		Frankfurt Airport	✓	✓	
		Hamburg Airport	✓		
		Düsseldorf Airport	✓		
		Berlin Airport BER	✓	✓	
		Berlin Airport Tegel	✓		
		Berlin Airport Schönefeld	✓		
		Cologne Airport	✓		
		Dresden Airport		✓	✓
		Leipzig Airport		✓	✓
	Rostock Airport		✓		
	Czech Republic	Prague Airport	✓		
	Russia	Sheremetyevo International Airport, Moscow		✓	
		Domodetovo Airport, Moscow		✓	
Vnukovo International Airport, Moscow			✓		
Port Bronka, St. Petersburg			✓		
Estonia	Port of Tallinn		✓		
Moldavia	Chisinau International Airport		✓		
Ukraine	Borispol Airport		✓		
Middle East	Saudi Arabia	Jeddah Airport		✓	✓
		Riyadh Airport		✓	✓
		Dammam Airport		✓	✓
	UAE	Dubai Airport	✓	✓	✓
		Abu Dhabi International Airport	✓	✓	
		Al Bateen VIP Airport		✓	
		Sharjah International Airport	✓	✓	
	Jordan	Aman Airport	✓		
	Qatar	Doha Airport		✓	
	Oman	Muscat Airport	✓		
Brunei	Brunei Airport	✓			
Africa	Egypt	Cairo Airport		✓	
	Angola	Quatro de Fevereiro International Airport, Luanda Catumbela Airport		✓ ✓	
Asia	India	Kamaraj Port Trust, Chennai, Tamil Nadu		✓	✓
		Adani Ports, Mundra, Gujarat		✓	✓
		Goa Port Trust, Goa		✓	
		New Mangalore Ports, Karnataka		✓	
		Visakha Container Terminals, Visakhapatnam, Andhra Pradesh		✓	
		Delhi Airport		✓	
Asia	China	Xianyang Airport			✓
		Shenzhen Airport	✓		

Region	Country	Installation location	Immigration Gates	Barriers	Other Products	
Asia	Maldives	Malé Airport	✓			
	Cambodia	Phnom Penh Airport	✓			
	Malaysia	Kuala Lumpur International Airport (KLIA1 and KLIA2)	✓			
	Kyrgyzstan	Manas International Airport, Bishkek		✓		
	Azerbaijan	Heydar Aliyev International Airport, Baku		✓		
Australia	Australia	Melbourne Airport		✓		
		Kingsford Smith International Airport, Sydney		✓		
		Adelaide Airport		✓		
		Darwin International Airport		✓		
		Perth Airport		✓		
		Brisbane Airport		✓		
	New Zealand	New Zealand	Gold Coast Airport		✓	
			Cairns Airport		✓	
			Canberra Airport		✓	
			Auckland Airport		✓	
North America	USA	Wellington Airport		✓		
		Christchurch Airport		✓		
		Tampa International Airport		✓		
		Newark Liberty International Airport		✓		
	USA	Philadelphia International Airport		✓		
Port Authority of New York and New Jersey			✓			
USA	USA	Port Canaveral		✓		
		Fort-de-France Airport		✓		
South America	Brazil	Uberlandia Airport		✓		
		Santos Dumont Airport, Rio de Janeiro		✓		
		Florianópolis Airport		✓		
		Galeão Airport, Rio de Janeiro		✓		
		Congonhas Airport, São Paulo		✓		
		Parnamirim Airport		✓		
		Fortaleza Airport		✓		
		Brasilia Airport		✓		
		Confins Airport		✓		



Frankfurt Airport



Munich Airport



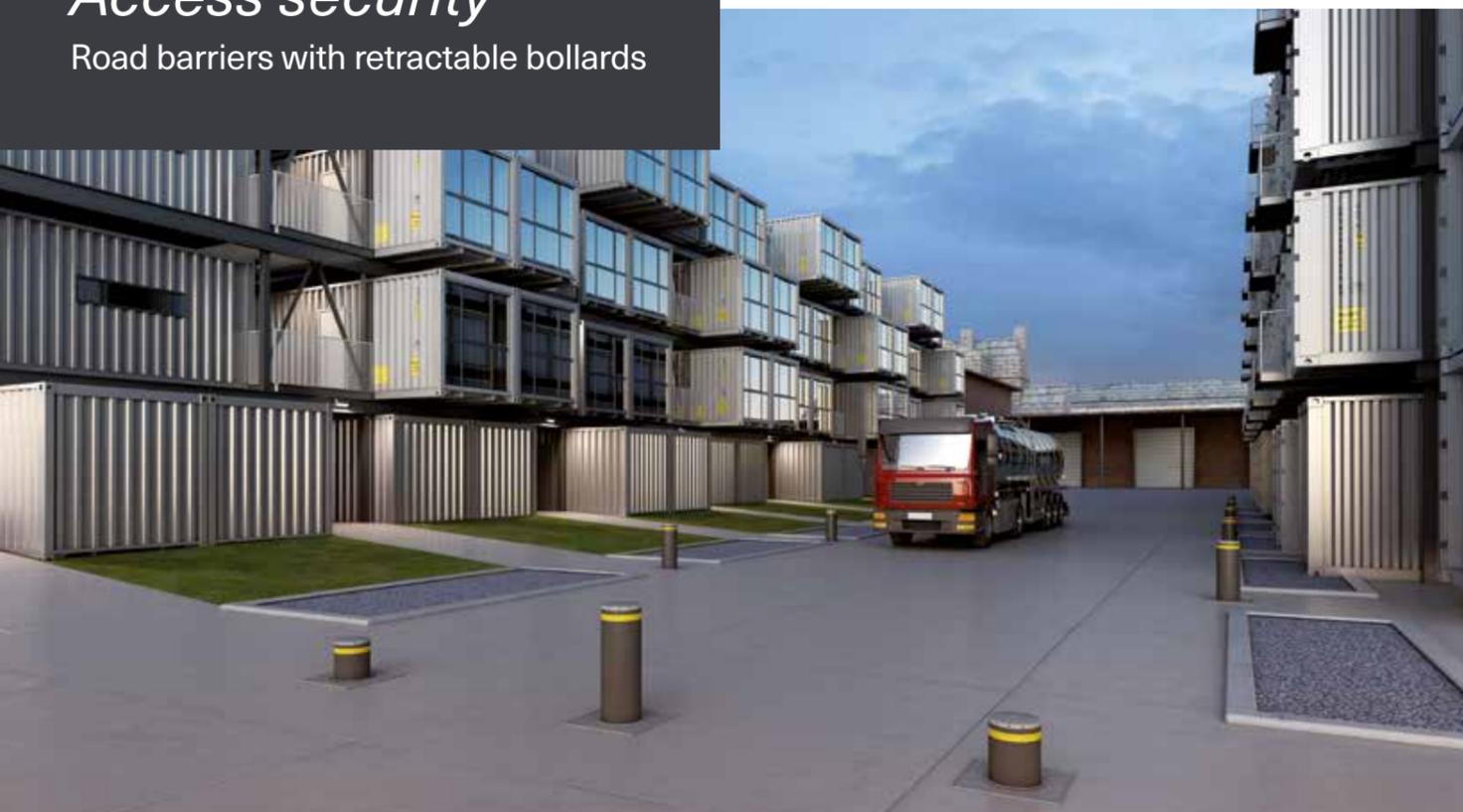
Martinique Airport



Dubai Airport

Access security

Road barriers with retractable bollards



Magnetic has been a member of the FAAC Group – an internationally active alliance of companies for automated drives used in vehicle and pedestrian management – since 2012. Thanks to membership of FAAC we can exploit a much tighter network of sales and service branches, and we can offer you a wider range to meet the requirements of your airport project.

The bollards from FAAC supplement the range of Magnetic barriers in cases where a particularly effective and preventive security solution – that can be discretely integrated in the surroundings – is required. Whereby the traffic bollards represent an easily installed and maintained starting point for traffic management. The high-security bollards form a solid protection against violently intrusive vehicles and are particularly suitable for protecting heavily frequented outdoor areas at airports.



www.faacgroup.com



High security bollards

Bollards for blocking off spaces and access roads to security-relevant areas of the airport. The bollards have been tested in compliance with the US standard ASTM F 2656-07 and have been awarded M30-P1 certification for the highest possible penetration class: they can stop a truck with a total weight of 6.8 tonnes at a speed of 50 km/h.

- > 1,000 mm height
- > 6 s extension speed
- > Flashing light integrated in bollard head

- > Maximum protection against violent intrusion by vehicles
- > Withstands extreme impact loads thanks to 150 kJ shock resistance
- > Quiet wear-resistant hydraulic drive unit
- > Block against retraction during power outages
- > Extremely rapid extension in 1.5 seconds in emergencies



Traffic bollards

Bollards for the visually attractive and effective blocking of spaces and access roads. The bollards can either be automatically operated with a very quiet and wear-resistant hydraulic unit or semi-automatically with gas pressure, and are suitable for all areas whose access regulation is only seldom modified. They can also be supplemented with fixed bollards to protect particularly wide thoroughfares.

- > 600 or 800 mm height
- > 6 s extension period
- > LED light corona integrated in the bollard head

- > Buzzer provides acoustic signal on movement, flashing light and panic opening valve
- > Plug-in electrical connections save time and money during installation
- > Round mounting trough for quick and reasonably priced excavation via core drill
- > Very low maintenance and service costs

Access to Progress

Magnetic stands for pioneering products – in every way. Our access control systems for vehicles or pedestrians clear the way for thousands of people every day – at car parks, toll gates, stations, airports and in buildings. Our technology is also pioneering, however: with innovative drives, intelligent control systems and well thought-out details it provides maximum safety and longevity. Are you also on the path to Magnetic?



Vehicle barriers

Access barriers
Parking barriers
Toll barriers
Special barriers



Pedestrian gates

Turnstiles
Swing gates
Tripod gates
Retractable gates
Wing gates



Terminals

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