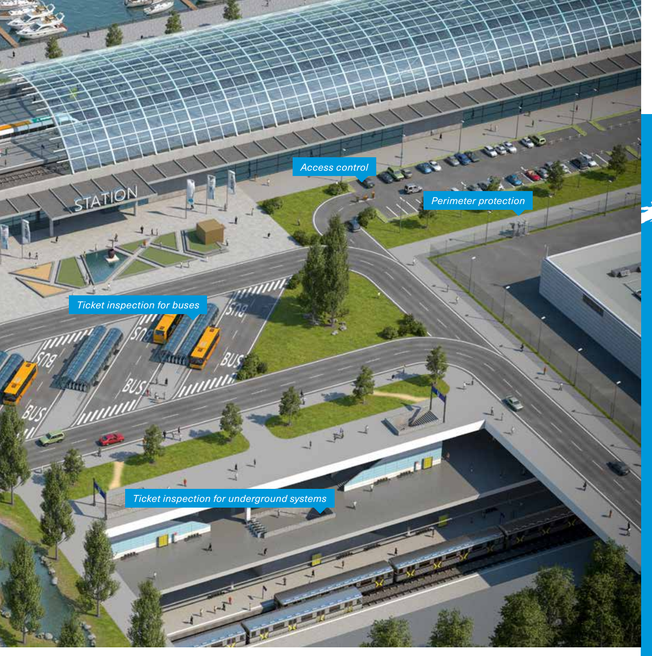


Access and entry control

Bicycle parking
Turnstiles with bicycle gate for secure accommodation of bikes in bicycle parking garages.

Perimeter protection
Turnstiles and swing gates for reliable monitoring of employees and service providers on the way to stations.

Car parks
Rapid car park barriers with tailgating prevention for reliable ticket inspection in all car parks and parking areas.

Access control
Barriers and terminals for controlling access to company grounds, to employee car parks and other protected areas.

MAGNETIC AUTOCONTROL GMBH
www.magnetic-access.com

MAGNETIC® ACCESS TO PROGRESS

OUR WORLDWIDE REFERENCES.

1 *France*
PARIS METRO
800 MPWs and KPWs
2011 – 2018

2 *The Netherlands*
AMSTERDAM METRO
1000 MPWs
2005 – 2007

3 *Poland*
WARSAW METRO
225 MPHs
2015 – 2018

4 *United Arab Emirates*
DUBAI METRO
350 KPRs
2009

5 *India*
DELHI METRO
500 KPRs
2009 – 2016

6 *China*
CHONGQING METRO
1950 KPRs
2010 – 2017

7 *China*
WUHAN METRO
2400 KPRs
2012 – 2017

8 *China*
SHENZHEN METRO
1550 KPRs
2010 and 2015 – 2016

9 *Malaysia*
KUALA LUMPUR METRO
300 KPWs
2015 – 2016

10 *Indonesia*
TRANSJAKARTA ELECTRIC TRAIN
200 MPPs
2010

11 *Australia*
SYDNEY METRO
660 KPRs
2011

12 *New Zealand*
AUCKLAND METRO
80 KPRs
2011

13 *Ecuador*
METROVÍA TRONCAL 2 GUAYAQUIL
120 MPPs, MPTs and MPSs
2007

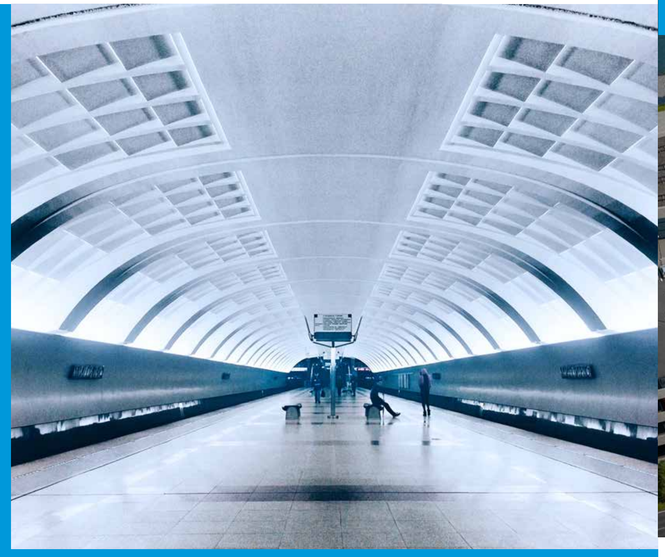
14 *Brazil*
SÃO PAULO METRO
300 MPHs
2009 – 2010

15 *South Africa*
CAPE TOWN BUS RAPID TRANSIT
200 KPWs
2012 – 2014

16 *South Africa*
JOHANNESBURG GAUTRAIN
200 MPHs
2009

Member of FAAC group

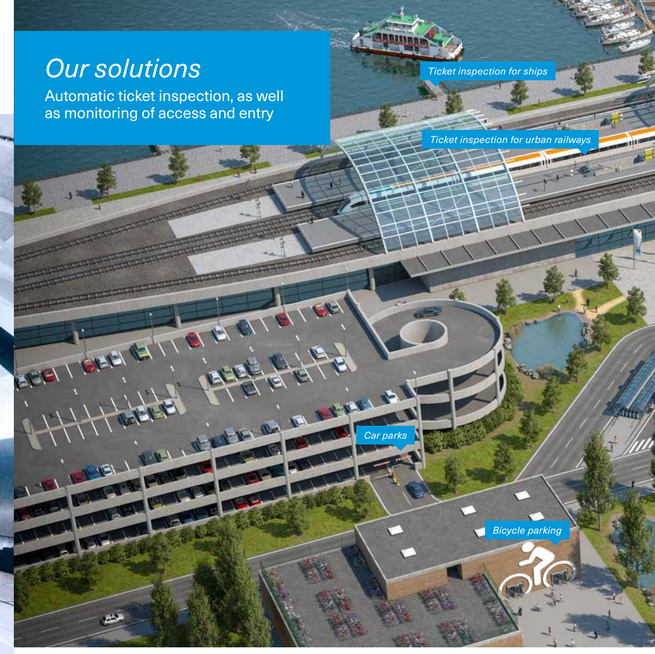
MAGNETIC® ACCESS TO PROGRESS



Public transport
Segment solutions

MAGNETIC AUTOCONTROL GMBH
www.magnetic-access.com

Our solutions
Automatic ticket inspection, as well as monitoring of access and entry



Automated fare collection

Ticket inspection for underground systems
Rapid passenger barriers with non-contact individualisation for reliable ticket inspection with high passenger volumes.

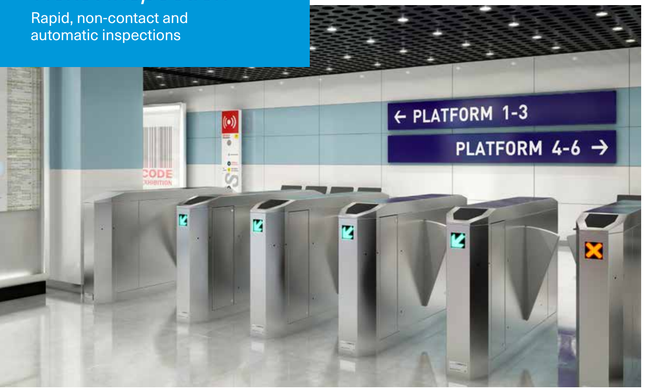
Ticket inspection for buses
Rapid passenger barriers with adaptable security level for reliable ticket inspection in unsupervised areas.

Ticket inspection for urban railways
Rapid passenger barriers with full monitoring of the throughput process for reliable and user-friendly ticket inspection.

Ticket inspection for ships
Robust passenger barriers for reliable outdoor ticket inspection in demanding climates.

Ticket inspection

Rapid, non-contact and automatic inspections



Securing and accelerating public transport processes
For the first time in human history more people live in cities than in the countryside. Given the increasing density of settlement and rising environmental pollution only a powerful traffic network made up of urban railways, underground systems, buses, bicycles and pedestrian traffic can sustainably meet the mobility needs of urban inhabitants. Demands at intersection stations, however, rise with increasing public transport provision. The stations of the past must become intermodal hubs that efficiently connect the various modes of transport with one another so that travellers can rapidly and reliably reach their destinations despite changing vehicles.

Magnetic offers numerous solutions that enable you to design public transport processes that are both quicker and safer. Our pedestrian barriers for automatic fare collection and ticket inspection consistently detect the tickets of all travellers and thus efficiently prevent fare evasion.

Extensive sensor technology also enables comfortable passage, and the extremely high opening and closing speeds are the prerequisite for fully automatic and rapid ticket inspection with high passenger volumes.

Magnetic also offers turnstiles for bicycle parking garages, extremely rapid and reliable car park barriers for car parks and parking areas, as well as turnstiles for securing protected areas.

Regardless of whether travellers are switching from car to train, from bus to urban railway, or from bicycle to hired car – these processes run reliably and smoothly with the help of solutions from Magnetic. We have already been working for many years with traffic companies, railway station operators and system integrators worldwide, and have gained comprehensive experience of the planning, development and installation of access and ticket inspection systems in public transport.

What can we do for you? Simply contact us!

„The quality of the products and the support service is outstanding. Year after year, our team has learned to depend on the flexibility of the Magnetic system, the ease of operation and support as well as dedication to SIMS as a client.“

Stimela Infrastructure Management Services Limited, South Africa
Fezile Dantile (Managing Director)

Rapid individualisation
The short opening time of 0.3 seconds makes MPR wing gates ideal for rapid and reliable ticket inspection with high passenger volumes.

Innovative drive technology
The MHTM™ drive unit is maintenance-free, energy-efficient and quiet. The sensitive impact detection system complies with strict European standards and ensures maximum passenger safety.

MPR wing gates for automated ticket inspection
MPR pedestrian barriers were specially developed for AFC applications, and ensure rapid, non-contact and comfortable ticket inspections in public transport. The gates' extremely short opening time of 0.3 seconds and the simple installation of multiple lanes are prerequisites that enable passengers' tickets to be automatically and reliably inspected even during peak periods. The integrated control system can be operated with all ticketing systems and used in both directions.

- Opening time 0.3 seconds for standard passage, 0.6 seconds for wheelchair access
- Bi-directional operation for simple adaptation to current passenger flows
- Fully integrated components for quicker commissioning and maintenance

www.magnetic-access.com/mpr-afc

Rapid individualisation
The short opening time of 0.6 seconds makes the MPW swing gate ideal for rapid and reliable ticket inspection with high passenger volumes.

Easy access to components
All the control and drive components necessary for operation are accommodated directly in the barrier and can be configured via DIP switches or a PC interface – considerably simplifying commissioning and maintenance.

MPW swing gates for automatic ticket inspection
MPW swing gates for the AFC segment are ideally adapted to public transport requirements. The swing gate is suitable for inspecting tickets very quickly despite high passenger volumes thanks to its short opening time of 0.6 seconds. The two-metre-long robust stainless steel housings offer space for all common ticketing systems, regulate arriving passengers and thus accelerate ticket inspection and throughput times. They also enable the simple and space-saving installation of multiple applications.

- Opening time 0.6 seconds for standard passage, 1.0 seconds for wheelchair access
- Extensive sensor technology for comfortable non-contact passage
- Material and shape of barrier elements adaptable to on-site requirements

www.magnetic-access.com/mpw-afc

High individualisation security
The high door elements prevent climbing over and thus effectively separate different areas from one another. The desired security level can be individually adapted via the different door heights.

Secure processes
Photoelectric systems in the passage-way reliably detect persons and objects. They enable non-contact passage and signal an alarm on unauthorised use.

MPH swing gates for automated ticket inspection
MPH swing gates are designed for use with increased security requirements, e. g. for unsupervised platforms or passages. The security level can be individually adapted to conditions at the point of use, with door heights of 120, 150 or 180 cm. The barrier elements form a continuous glass wall and effectively prevent anyone from climbing over. Despite the enhanced security level, the MPH permits rapid passage and effective ticket inspections.

- Opening times of 0.6 to 1.2 seconds for standard passage, 1.0 to 1.4 seconds for wheelchair access, depending on the height of the barrier elements
- Extensive sensor technology for user-friendly non-contact passage
- Customer-specific window stickers or printed barrier elements made of toughened or laminated safety glass

www.magnetic-access.com/mph-afc

Rapid outdoor individualisation
With its turnstile design, the MPP is suitable for rapid individualisation despite high passenger volumes – also for outdoor use under harsh weather conditions with IP 44 enclosure rating (optional).

Unobstructed escape routes
The barrier permits free passage in the case of power outages or emergencies. With the optional drop-arm function the upper arm swings down out of the way and thus allows free passage. The arm automatically swings back into position after the emergency contact resets or power returns.

MPP turnstiles for automated ticket inspection
Our recommendation for harsh operating conditions: the robust housing of the MPP and the stainless steel barrier arms not only withstand improper use, but are also designed for outdoor applications (optional). The MPP is also ideally equipped for emergencies: with the drop-arm function (optional) the upper arm swings down out of the way in response to a power outage or alarm signal, enabling unhindered passage as an emergency exit. The arm automatically swings back into position after the emergency contact resets or power returns.
The MPS swing door can be added for wheelchair access.

- Robust turnstile for high throughput frequencies
- High-quality stainless steel housing for indoor and outdoor use (optional)
- Drop-arm system (optional) provides free passage during power outages or emergencies

www.magnetic-access.com/mpp-afc

Access and entry control

Efficient security

MPB turnstile with bicycle gate to protect bicycle parking areas

- Comprehensive access and entry control for secure bike parking
- Simultaneous passage for bicycle and rider
- Induction loop detector for bicycle detection

www.magnetic-access.com/mpb

Parking Pro car park barrier

- Rapid vehicle barrier for all applications in which pedestrian access can be ruled out
- Dependable processing through detection of tailgating vehicles
- Very short opening and closing times of minimum 1.3 seconds
- Articulated boom (optional) for low ceiling heights

www.magnetic-access.com/parking-pro