### YOUR ACCESS TO REVOLUTION





"If you are truly innovating, you don't have a prototype you can refer to."



#### YOUR ACCESS TO REVOLUTION

Development of pedestrian gates has long been a matter of evolution. Reading devices have become wireless, biometric recognition methods have sprung up, and personal data on authorised users are now digitalised and centrally administrated. Nothing very much has changed regarding the pedestrian gates themselves: housings made of steel sheet still stand in the way of authorised users.

We here at Magnetic have now set a new course towards revolution and completely reinterpreted security in buildings – with the FlowMotion® product line of pedestrian gates. We no longer see access control systems as artificially superimposed security mechanisms, but as integral components of buildings. They are no longer external barriers, but paths within that welcome those entering the building and show them the way. We therefore not only increase user acceptance – we also make a major contribution towards greater security in buildings through the consistent and systematic assessment of all persons entering them.

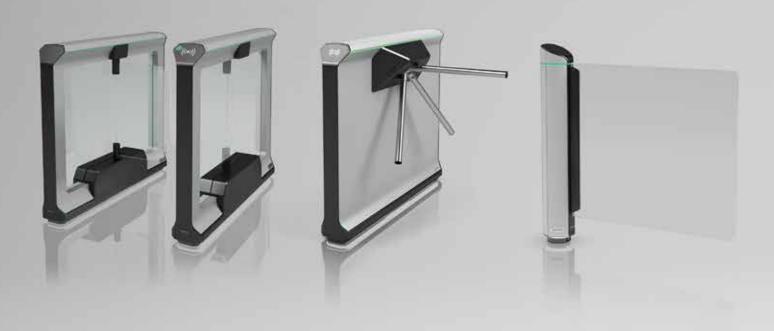
In order to achieve this reinterpretation we have started again from scratch and fundamentally redeveloped our access systems from the bottom up. The result is a unique design whose flowing lines and wide range of colours permit seamless integration in the demanding architectures of companies, cultural institutions and public facilities. The prerequisite for the extraordinary design is a new material: mDure® is not only extremely tough and long-lived, but its warm and friendly feel also gives visitors a comfortable first contact. And because we see our access systems as the path into buildings we have equipped them with versatile illumination that shows visitors the way and intuitively guides them through the access process.

Even if revolutions radically challenge what is old, in one regard we have remained true to our former concept: as before, you can rely on our energy-efficient, reliable and extremely long-lived drive and control technology.

#### COME ON IN!

# A large family

The FlowMotion® range of models



#### mWing

The elegant one: an open housing, short opening times and flowing noncontact passage – no access solution is safer and more elegant than mWing.

#### **Barrier technology**

Pedestrian passageway with wing gates

# **Opening and closing speed** High

### Security level

Medium to high (depending on the barrier element)

#### mTripod/mTripod short

The comfortable one: its smooth drive and sensitive impact detection make passage through the mTripod and mTripod short particularly simple and comfortable.

#### **Barrier technology**

Turnstile

### Opening and closing speed

Medium

#### **Security level**

Low

#### **mSwing**

The versatile one: you not only design optically appealing entrances with the mSwing swing door, it is also our specialist for wheelchair-friendly access and safe escape routes.

#### **Barrier technology**

Swing door

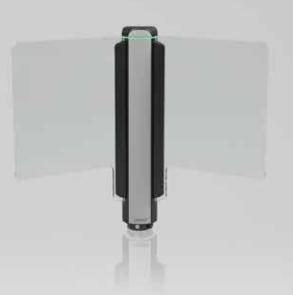
#### Opening and closing speed

Low

#### **Security level**

Low

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#### mTwing

The welcoming solution: Half-height turnstile with transparent barrier and railing elements for an unrestricted view into the building.

### Barrier technology

Half-height turnstile

Opening and closing speed

Low

**Security level** 

Low

#### **mPost**

The matching one: The mPost control column offers the right design if with mSwing and mTwing an additional access control is required.

#### mGuide

The final one: If the room is wider than the passageway, the guiding elements from mGuide come into play. They reliably guide visitors to and through the barrier.

### FlowMotion®

Fascinating aesthetics...



#### Access control

The pedestrian gates of the FlowMotion® series can be controlled with all common reading devices. The front faces allow installation of numerous card-reading models, ensuring maximum flexibility.



#### Design

The FlowMotion® series is characterised by its extremely slender silhouette, shapely form and flowing lines.

The lean design harmonically integrates itself in architecturally demanding surroundings, and its inviting shape increases user acceptance.





#### Comfortable passage

The smoothly operating motor drive makes the access process particularly comfortable, and its sensitive impact detection ensures maximum user safety.



#### Unobstructed escape routes

FlowMotion® gates provide free passage if there is a power outage or alarm signal. They automatically resume operation when the alarm is over or power has been restored.



#### Secure access control

Light sensors (optional) raise the alarm if someone climbs over or crawls under the pedestrian gates. Interlocking in the closed state (optional) prevents any forced entry.



#### Comprehensive functions

An emergency release routine, pulse counter, and random generator for screening users are standard in the FlowMotion® series, directly integrated in the control system.

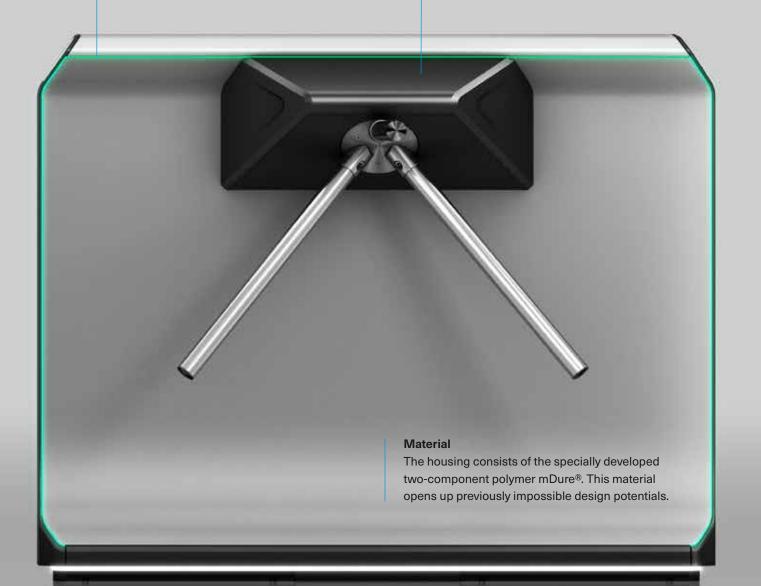


#### **Haptics**

Unlike stainless steel, mDure is not cold and hard but instead feels comfortably warm and nice to touch. A friendly reception for visitors is thus provided on entering the building.

#### Illumination

Frame-edge illumination (optional) not only underlines the slender design, but also shows that this system is ready for passage. Floor illumination (optional) further contributes towards reliable user guidance.



# **FlowMotion®**

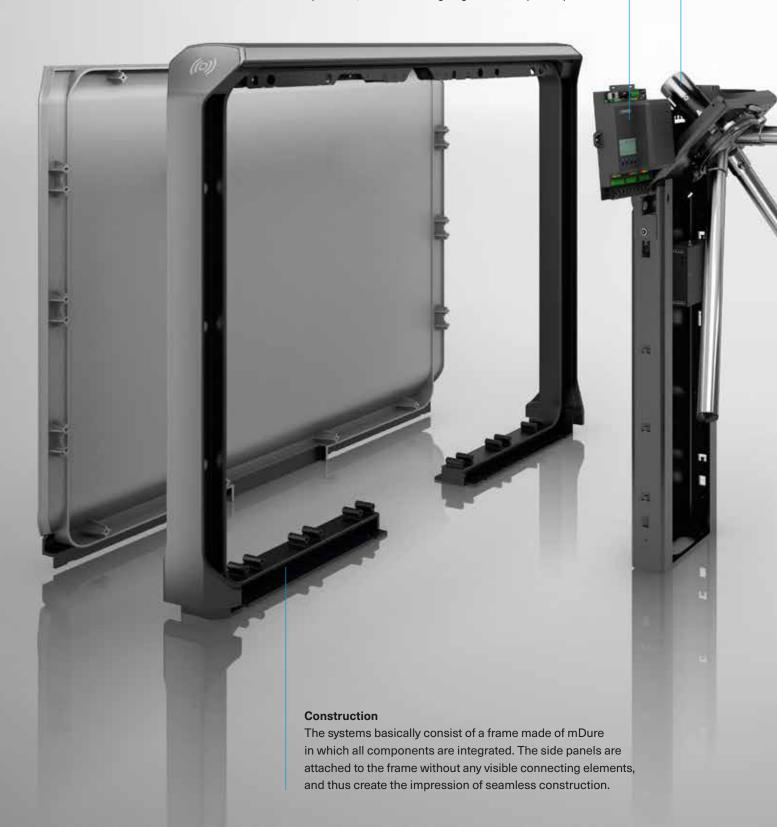
... excellent inner values...

#### Control system

The MGC control system is at the heart of all FlowMotion® gates.

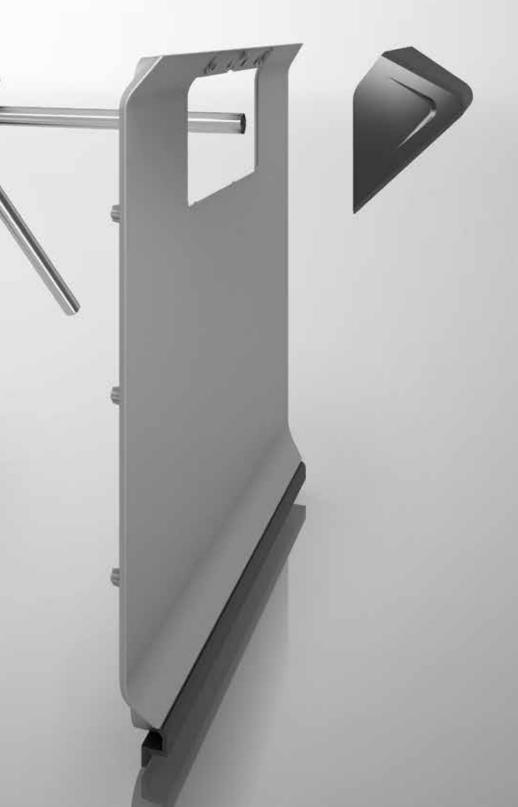
It enables direct access to all functions, parameters and information – not even a notebook is required, thanks to the integrated display and control buttons.

By the way, the same control system and drive technology are also used in Magnetic's vehicle barriers. This considerably reduces system diversity and training requirements for sales partners, commissioning engineers and plant operators.



#### **Drive**

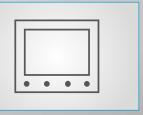
The thousand-fold proven MHTM™ drive technology ensures particularly comfortable passage. It is maintenance-free, energy-efficient and quiet – and forms the basis for a long service life because it is designed for more than 10,000,000 opening and closing cycles.





#### Rapid installation

Our pedestrian gates are supplied ready for installation. All the selected options have already been installed, and the corresponding parameters preset, before delivery to the point of use. This, and the drilling templates, considerably shorten commissioning times.



#### Simple parameterisation

All the MGC control system functions and settings can be located and edited very quickly via the display, the four buttons, and the well-thought-out user navigation. No workaround involving a notebook and connection cable is required.



#### Complete documentation

Construction specifications, floor plans, dimensional drawings and technical data – our customers receive all relevant documentation. They are thus always on the safe side during project planning, commissioning, and certification of conformity.



#### Comprehensive training

We are training sales partners, commissioning engineers, and service technicians at our Academy. This ensures high installation quality and excellent service.

# **FlowMotion®**

... and unique options.

#### Frame-edge illumination

The elegant integrated light elements offer flexible use to show operational readiness, the direction of passage, or the validity of access authorisation.

#### **Sensor control**

Sensors in the frame detect users entering the passage area. This increases the speed of passage and prevents unauthorised access attempts.



#### Floor illumination

The white floor illumination gives the gates the appearance of floating in a cloud of light and simplifies orientation in the entrance area for visitors.

#### **Ethernet interface**

Today's connections for the buildings of tomorrow: FlowMotion® gates can be integrated into building control systems via the Ethernet interface.



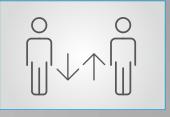
after completion of the bare floor. It not only

reserves the space for subsequent installation

of the FlowMotion® pedestrian gate, but also

considerably simplifies the laying down of

electricity and data cables.



#### **Full flexibility**

Visitor flows into the building in the morning, out of the building in the evening, and coming and going between the two – FlowMotion® gates offer flexible use thanks to their bi-directional operation.



#### Large visitor numbers

It makes sense to use several parallel lines if large numbers of visitor authorisations need confirmation within a very short time. All FlowMotion® pedestrian gates are suitable for the straightforward setting up of multiple applications thanks to their uniform stylistic language and control technology.



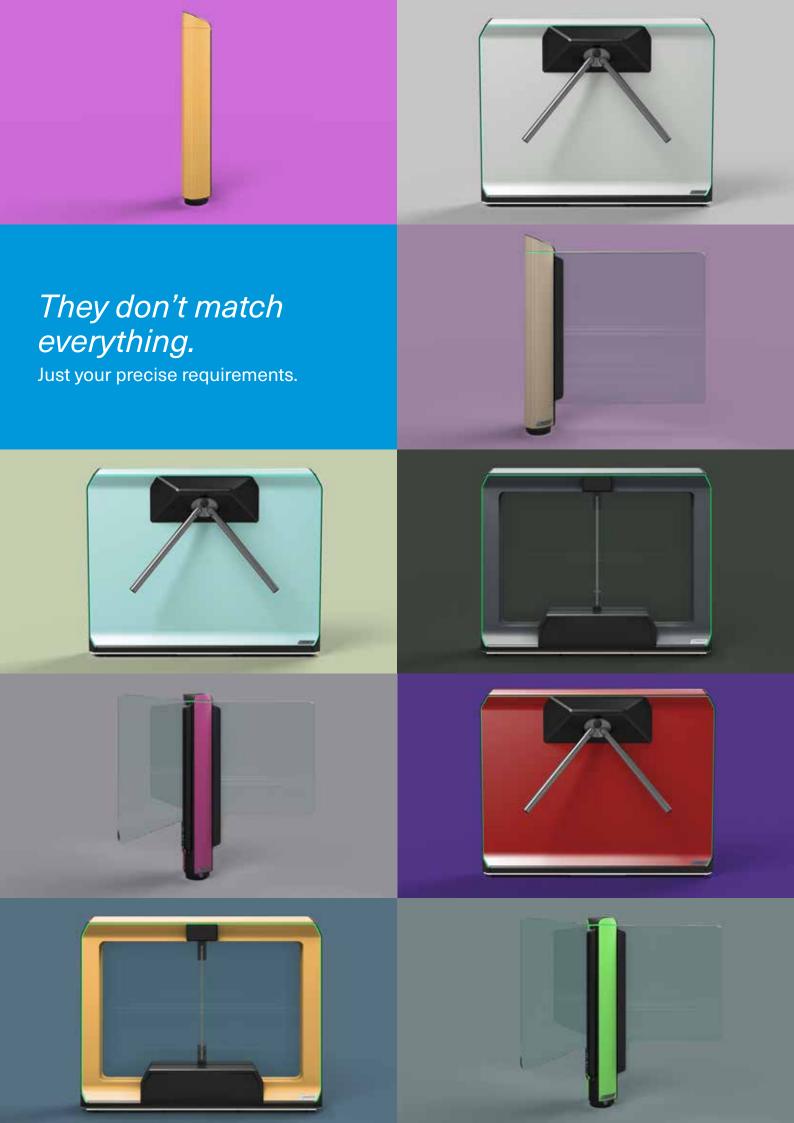
#### Wheelchair-friendly access

Variants of the FlowMotion® gates are available with large passage widths for wheelchair users, the transport of material, and many other requirements. mSwing swing doors offer another alternative for providing wheelchair-friendly access.



#### Unobstructed escape routes

All the gates in the FlowMotion® series automatically allow free passage in the case of a power outage or an alarm signal. mSwing swing doors allow the setting up of particularly wide, officially approved escape routes.







#### Access solutions that meet your needs

High visitor numbers, wheelchair-friendly access, escape routes during emergencies – a single gate is often insufficient to meet all the requirements. But here, too, the extremely slender design and uniform stylistic language of FlowMotion® gates prove advantageous because they allow the particularly simple implementation of space-saving multiple applications.

Several gates can be arranged in rows to enable the rapid and reliable control of large numbers of visitors. With mWing, mSlide and mFlap we offer left, central and right modules with adapted barrier elements; a housing is available for mTripod without barrier elements for the end of a row.

Wheelchair-enabled access requires a larger passage width so that users, as well as delivery services, have sufficient space for passage. The three pedestrian passageways – mWing, mSlide and mFlap – are available in wider variants, permitting passage widths of up to 960 mm.

Escape routes must comply with special legal and technical requirements. They must be readily identifiable and easy to open. They must also offer a particular passage width depending on the number of persons in the building. The mSwing swing door is our specialist for escape routes: as a single installation it provides a passageway width of 1200 mm, and as much as 2400 mm as a double installation.



#### AN INNOVATIVE MATERIAL FOR INNOVATIVE PRODUCTS

An extremely slender silhouette, soft flowing lines, and a warm gentle feel – this has all been made possible because we have moved away from the stainless steel panels used up to now and turned to a new material: mDure.

**mDure** is a polyurethane and thus consists of two components. During its production, polyols and isocyanates react to make long-chain molecules that form spatial links with one another. The end-product can be precisely adapted to meet particular

requirements because thousands of combinations of different polyols and isocyanates are possible. In many respects, **mDure** far surpasses the performance of the previous standard material.

By the way: although we are taking new paths we are not experimenting. Comparable high-performance polyurethanes are used for housings in medical and laboratory technology, for vehicle dashboards, and for cladding on high-speed trains. Could **mDure** have better references?



# *mWing*

## Pedestrian passageway with wing gates

- > High visitor throughput thanks to rapid opening times and preset travel function
- > Open-gate mode for extra throughput acceleration
- > For maximum security requirements in monitored and unmonitored areas
- > Low impact forces for maximum personal safety
- > Freely turning on power outages
- > Designed for 10 million opening and closing cycles



Technical data	mWing
Application	Indoor and outdoor
Passage width	Standard: 600 mm Wide Lane: 900 mm (more on request)
Height of barrier elements	Standard: 888 mm High: 1800 mm (more on request)
Opening/closing time	0.6 –1 s, depending on barrier element dimensions
Flow rating (number of persons per min.) <sup>1</sup>	approx. 40
Drive technology	MHTM™
Control system	MGC
Voltage	100-240 V AC, 50/60 Hz
Power consumption	Maximum 45 W
Duty cycle	100%
Housing material	mDure
Housing dimensions (L x W x B)	1300 x 1050 x 180 mm
Enclosure rating	IP 54
Weight	About 120 kg per module
Temperature range	-30 to +55 °C

<sup>1</sup> Depending on reader,	lock setting,	person	behaviour
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Features	
Direction of passage	Uni- or bi-directional
Emergency release	On power outage or closing of alarm contacts
Random generator	Integrated in control system
Throughput data acquisition and event log	Integrated in control system
Control system inputs and outputs	8 digital inputs, 4 digital outputs, and 6 relay outputs

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Otanic	ıaıu	CO	ours

Basalt	Anthracite
(similar to RAL 9006)	(similar to RAL 9005)

#### Potential applications



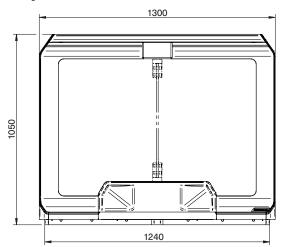




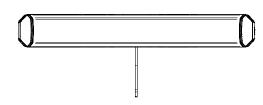




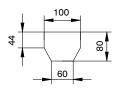
mWing - side view



mWing - top view (1 module)

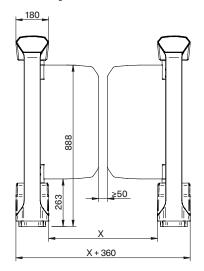


Mounting space for reader devices (without optional passage indicator, mounting depth 40 mm)

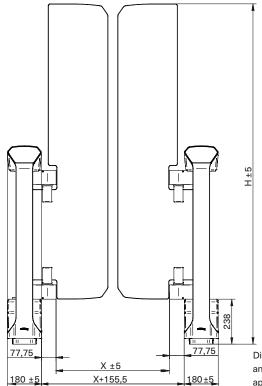


Passage width				
Name X [mm] H1 [mm] H2 [mm] H3 [mm]				H3 [mm]
Narrow	520	1200	1500	1800
Standard	600	1200	1500	1800
Wide	900	1200	1500	1800
Extra wide	960	1200	1500	1800

mWing - front view



mWing - front view with high glass panel



Dimension X applies to normal and high doors, H1 to H3 only apply to high doors.

# *mTripod*

### Three-arm turnstile

- > Revolutionary design, won German Design Award 2018
- > Extensive functions and intuitive operation
- > Drop-arm mechanism (optional) permits passage during power outages or alarms
- > Ethernet plug-in module for IP connection (optional)
- > Designed for more than 10 million opening and closing cycles



Technical data	mTripod	mTripod short
Housing variants	Long	Short
Application	Indoor and outdoor	Indoor and outdoor
Passage width	515 mm	515 mm
Flow rating (number of persons per min.) <sup>1</sup>	approx. 20	approx. 20
Drive technology	MHTM™	MHTM™
Control system	MGC	MGC
Voltage	100-240 V AC, 50/60 Hz	100-240 V AC, 50/60 Hz
Power consumption	Typical 30 W	Typical 30 W
Duty cycle	100%	100%
Housing material	mDure	mDure
Housing dimensions (L x W x H)	1300 x 290 x 1050 mm	730 x 290 x 1050 mm
Enclosure rating	IP 54	IP 54
Weight	About 70 kg	About 57 kg
Temperature range	−30 to +55 °C	−30 to +55 °C

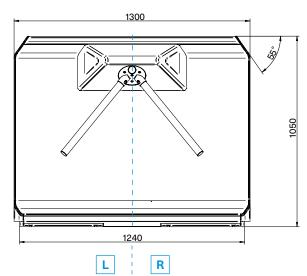
<sup>1</sup> Depending on reader, lo	ock setting, person behaviour
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Features	
Direction of passage	Uni- or bi-directional
Emergency release	On power outage or closing of alarm contacts
Random generator	Integrated in control system
Throughput data acquisition and event log	Integrated in control system
Control system inputs and outputs	8 digital inputs, 4 digital outputs, and 6 relay outputs

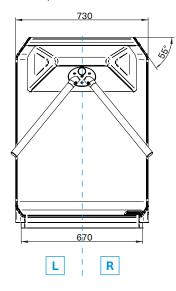
Standard colours	
Basalt	Anthracite
(similar to RAL 9006)	(similar to RAL 9005)



mTripod – side view

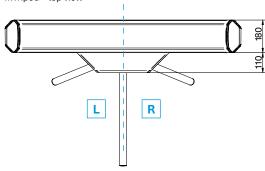


mTripod short - side view

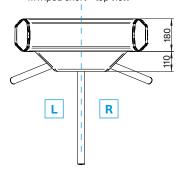


You can obtain options as left  $\[L\]$  or right  $\[R\]$  versions. If you look at the mTripod from the tip of the turnstile bar the option is on the left with the left version and on the right with the right version.

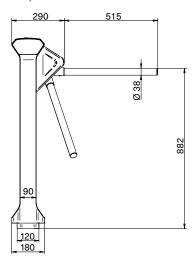
mTripod - top view



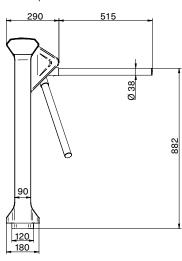
mTripod short - top view



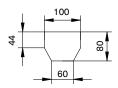
mTripod – front view



mTripod short - front view



Mounting space for reading devices for mTripod and mTripod short (without passage indicator, mounting depth 40 mm)



# *mSwing* Swing doors

- > As single or double doors for visitor entrances, passage with baggage, transport routes and wheelchair-friendly access
- > For unobstructed escape routes in emergencies
- > Ideally complements the mTripod access control system
- > Compact accommodation of drive and control systems in the centre column
- > Low impact forces for maximum personal safety
- > Freely turning on power outages
- > Designed for 10 million opening and closing cycles



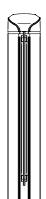
Technical data	mSwing
Application	Indoor and outdoor
Passage width	Standard: 1000 mm Wide Lane: 1200 mm (more on request)
Barrier element height	Standard: 994 mm (more on request)
Opening/closing time	2,0-5,5 s, depending on barrier element dimensions
Opening angle	Adjustable from 0 - +/-105°
Drive technology	MHTM™
Control system	MGC
Voltage	100 – 240 V AC, 50/60 Hz
Power consumption	Maximum 45 W
Duty cycle	100%
Housing material	Aluminium
Housing height	1092 mm
Housing diameter	Maximum 183 mm
Enclosure rating	IP 54
Weight	About 40 kg (without blocking element)
Temperature range	-30 to +55 °C

Features	
Direction of passage	Uni- or bi-directional
Emergency release	Can be parameterised: fixed position or freely turning
Control system inputs and outputs	8 digital inputs, 4 digital outputs, and 6 relay outputs
Configuration	Via USB interface from external

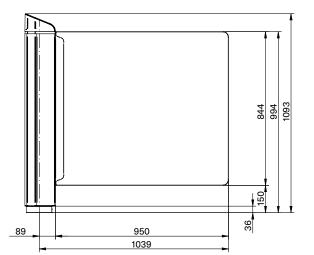
Standard colours	
Basalt	Anthracite
(similar to RAL 9006)	(similar to RAL 9005)



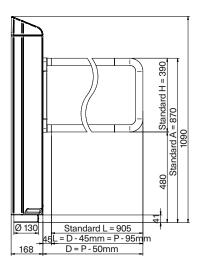
mSwing - side view



mSwing - front view



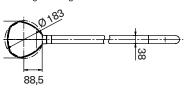
mSwing with U bar - front view



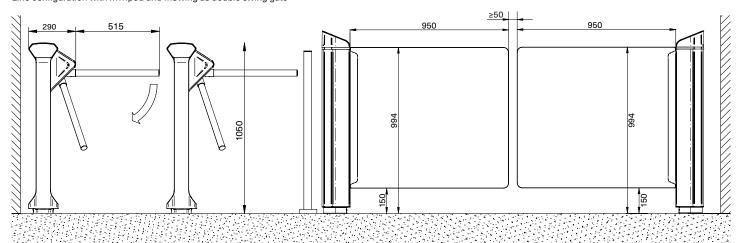
mSwing - top view



mSwing mit Flügel von oben



Line configuration with mTripod and mSwing as double swing gate



# mTwing

### Half height turnstile

- > Ideally complements the product range of FlowMotion®
- > With barrier and railing elements for an unrestricted view into the building
- > Compact accommodation of drive and control systems in the centre column
- > Low impact forces for maximum personal safety
- > Freely turning on power outages
- > Designed for 10,000,000 opening and closing cycles



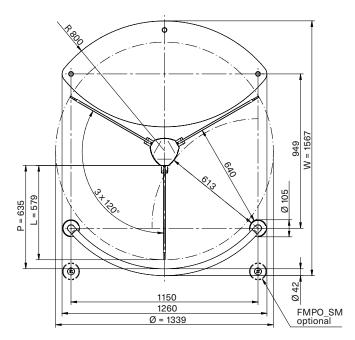
Technical data	mTwing
Application	Indoor and outdoor
Passage width	Standard: 635 mm
Barrier element heigh	Standard: glass 664 mm, U-bar 390 mm
Opening/closing time	Glass: 3,2 s, U-bar: 2,1s, depending on barrier element dimensions
Wing configuration	3 x 120°
Drive technology	MHTM™
Control system	MGC
Voltage	100-240 V AC, 50/60 Hz
Power consumption	Maximum 80 W

Technical data	mTwing
Duty cycle	100 %
Housing material	Aluminium
Housing height	1034 mm
Housing diameter	Maximum 186 mm
Enclosure rating	IP 54
Weight	approx. glass 69 kg, U-bar 43 kg
Temperature range	−30 to +55 °C
Flow rating (number of persons per min.)*	approx. 15
<sup>1</sup> Depending on reader, lock setting, person behaviour	

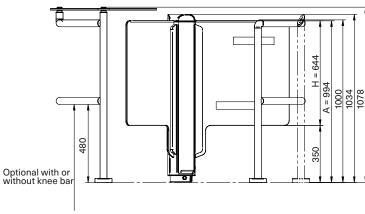
Standardfarben		
Basalt (ähnlich RAL 9006)	Anthrazit (ähnlich RAL 9005)	

Einsatzmöglichkeiten	

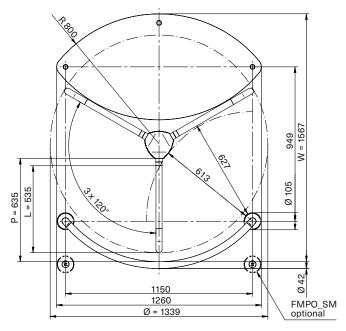
#### mTwing with glass panels top view



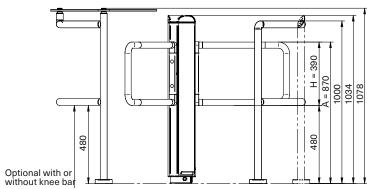
mTwing with glass panels - side view



mTwing with U-bars - top view



mTwing with U-bars - side view



# mPost

### Card reader column

- > Ideally complements the product range of FlowMotion®
- > Compact accommodation of reader devices possible



Technical data	mPost (mSwing/mTwing type)	mPost (mGuide type)
Application	indoor outdoor (depending on installed devices)	indoor outdoor (depending on installed devices)
Housing Colours (standard)	Basalt + Anthracite	brushed surface
Housing material	aluminium tube, mDure cover	stainless steel
Housing dimensions (L x W x B)	178 x 168 x 1090 mm	Ø 42,4/105 x 1030 mm
Encolsure rating (IP)	IP 54	IP 54
Weight approx. [kg]	16 kg	2,6 kg

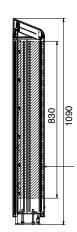
#### Standard colours

Basalt	Anthracite
(similar to RAL 9006)	(similar to RAL 9005)

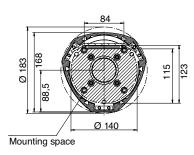
mPost - front view



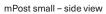
mPost - side view



mPost – view from below

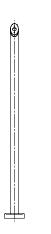


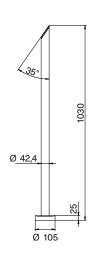
mPost small – front view

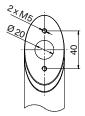


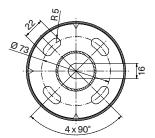
mPost small – top view

mPost mGuide type - view from below









# mGuide

### Railing system

- > Separation of areas for controlled and freely accessible zones
- > Ideal supplement as user guidance system for the FlowMotion® pedestrian gates
- > Clear transparent design seamlessly integrates into demanding architectures
- > Individually adaptable to point of use thanks to flexible width
- > Safety glass provides maximum user safety



Technical data	mGuide
Barrier width	Up to 1300 mm
Barrier element thickness	10 mm
Housing material	Stainless steel V2A
Housing height	1000 mm
Housing diameter	105 mm at base, 42 mm on columns

Options

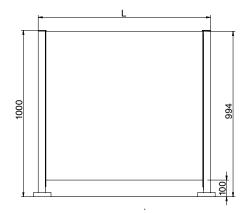
Barrier elements

Glass panels made of single-layer safety glass (ESG) or acrylic glass, customer-specific barrier elements

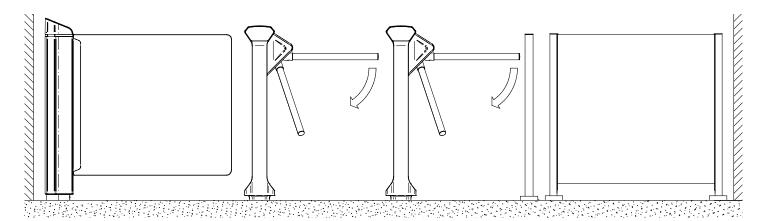
mGuide view from above



mGuide view from front



Line configuration with mSwing, mTripod and mGuide as user guidance and barrier element



#### MAGNETIC - YOUR ACCESS TO PROGRESS

Magnetic Autocontrol stands for pioneering products and solutions – in every way. Our pedestrian gates and vehicle barriers open the path for thousands of people every day – in buildings, stations and airports, just as in car parks and at toll stations. Our technology is also pioneering: excellent

functionality and user-friendliness, extraordinarily long service lives, and a high level of safety take our customers that extra step further. That is why our motto is "Access to Progress".

Try us out! We are available for you worldwide.



#### Headquarters

Schopfheim, Germany www.magnetic-access.com

#### Subsidiaries

Australia

Benelux countries

Brazi

China

Fran

India

Middle East

North and South America (excl. Brazil)

Austria

Scandinavia

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#### Competence in access control

Revolutions question existing systems; but revolutions are also always built upon their predecessors. This also applies for FlowMotion®. Our new generation of pedestrian gates is very different from our earlier products – but our decades of experience in the development of drive and control systems still remain at the heart of every FlowMotion® gate. This not only ensures comfortable passage, maximum personal safety and particularly low operating costs, but is also responsible for the unique robustness and long service lives for which the Magnetic brand has stood for decades.



Member of FAAC group