



PRODUCT CATALOGUE

TURNSTILES | ROAD BLOCKERS







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TiSO started out in business in 1996 in a modest manner and have come a very long way. From humble beginnings as a small metal processing factory which specialised in the fabrication of custom-made glass and steel architectural structures, to becoming a world renowned manufacturer of Turnstiles, Road Blockers and Fire Resistant Doors. We currently have four main international offices, based in Kiev, London, Dubai and Singapore with twenty three official representatives of the TiSO brand worldwide who between them have achieved more than thirty thousand projects in more than one hundred countries around the world.

"LET'S MAKE LIFE SAFER" — is our motto at TiSO, it's the mindset that encapsulates the beliefs of the entire TiSO team, and sums up in four simple words the secret of our success.

OUR MISSION

"LET'S MAKE LIFE SAFER" is our mission statement. We promote this ideology at every stage of the process from first introduction of the TiSO range to our partners, through manufacture, to installation and maintenance of our products on site. The successful delivery of our mission is ensured thanks to the quality of the products that we manufacture and distribute internationally. Our manufacturing processes and all of the products in the TiSO range, (from turnstiles through road blocking systems to fire-resistant doors) have been certified in accordance with the highest international standards for health, safety and environment by leading international laboratories. This proves and ensures the high standards of our manufacturing procedures in conjunction with the quality and reliability of the finished products that we distribute. Recognition of our success in implementing our mission is proven by the positive feedback that we regularly receive from our partners and end users alike, after the successful delivery of projects. This we hope makes our mission statement "Let's Make Life Safer" a reality for our many customers around the globe.

OUR VALUES



Personalisation. Despite our busy manufacturing program, we always treat each customer as an individual, and we will always go the extra mile to create a product that fully satisfies their needs and aspirations.



Safety and security. These are the key values which have enabled us to achieve our mission.



Team. Each person in the TiSO team makes an invaluable contribution to production and distribution of our products. The impressive team at TiSO is not limited to our full-time employees. All of our partners, customers and end users are equally important and vital to TiSO, so "Let's Make Life Safer" together.



Flexibility and adaptability. Willingness to create a product that fully complies with our customers requirements is a fundamental part of our company's mindset.



Research and innovation. Our products set the latest standards in design and engineering. Our innovations are not just a fashion statement in a fast-paced world. These are developed primarily to enable user friendly operation and end user satisfaction.

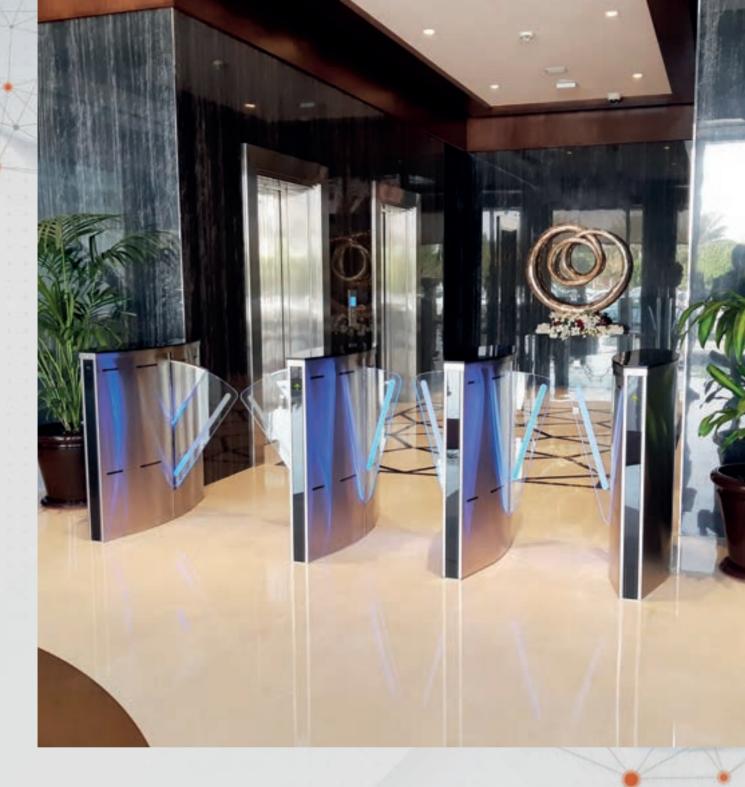


Eco-responsibility. During production, all the requirements of our Environmental Policy are at the forefront of the processes adopted by our company.

Speed Gates

- The speed gates have an ultra-modern futuristic design. Our speed gates of this series are ideal for stylish lobby interiors in hotels, banks, office centers, etc.
- BMDrive® Reliable mechanism with powerful BLDC gear motor ensures long term maintenance-free operation;
- Robust PinLock® locking system prevents from full leaves opening manually in case of vandalism;
- The smart self-diagnosing system of mechanism BMDrive® automatically analyzes the system, detects critical malfunctions, and records error log and warnings;
- The BMDrive® mechanism controller is equipped with an OLED display for easy setup and configuration without special programmers, also a full configuration and diagnostics is possible via a USB connector by using a service software for Windows OS;
- Digital control of force and leaf speed in combination with safety sensors prevent a passing person from being struck by a leaf, even in case of an unauthorized passage;
- By use of artificial intelligence algorithms and large number of high-precision infrared passage sensors, the speed gates detects and alarms when two people try to pass by one card, pass in the wrong direction and pass without authorization;
- Sensor system allows detecting the passage of person with luggage, arranging a free exit without the need for identification.



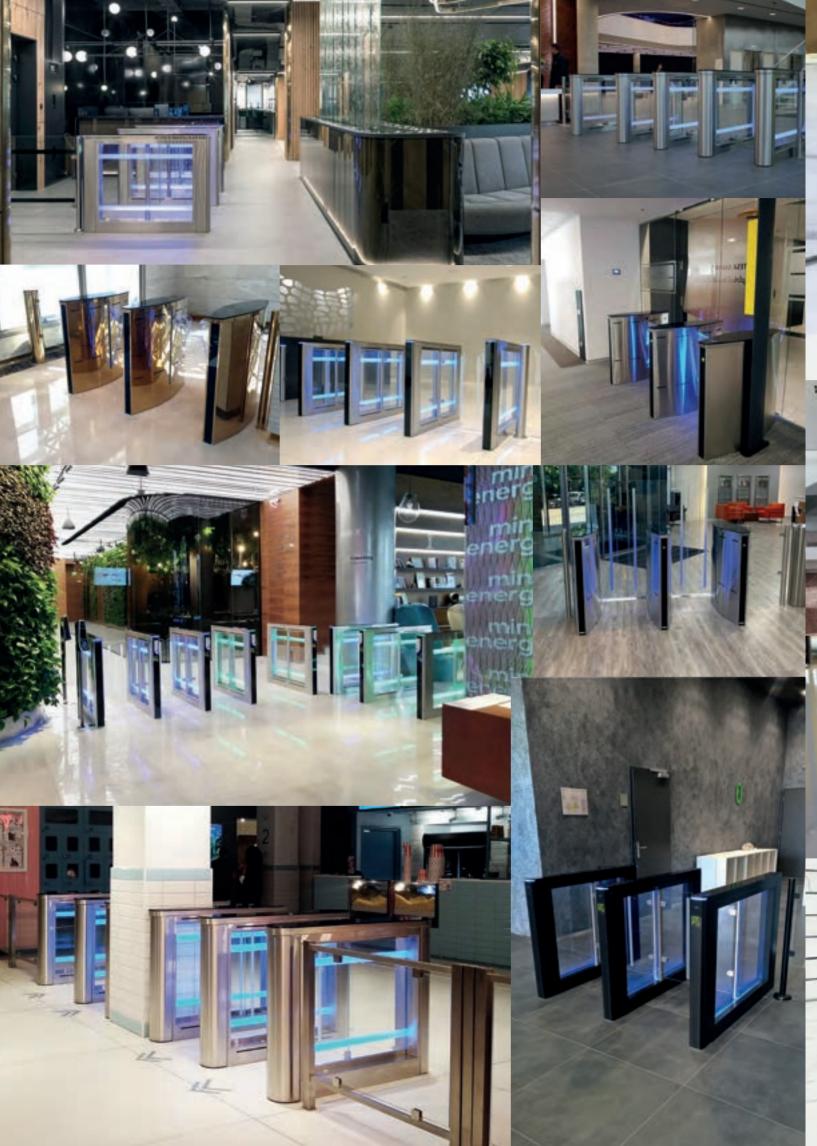


Touchless Access

that means even more safer than ever

Global pandemic situation influenced all areas of life. New trends force organizations adapt workers space according to new norms. We help companies to choose the right entrance solutions, taking into account new requirements.

Ideal solution for contactless access are our speed gate series. Such speed gates open automatically without impact at gate. Thus, the norms are observed safety during a global pandemic. Speed gates by TiSO are adapted for the installation of any contactless readers (face recognition system, temperature or mask detection system etc). Such access control systems allow supporting the idea of contactless secure access to the territory.







Extraordinary access experience with

Slide speed gate

- Robust design
- Unique folding gates
- Futuristic illumination













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OPENING/CLOSING

PASSAGE WIDTH



ANTI-TAILGATING

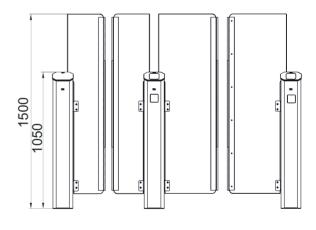
SINGLE ACCESS

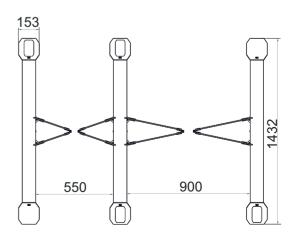


BI-DIRECTIONAL

FREE ACCESS

Model	Slide
Mechanism	BMDrive® servodrive (BLDC)
Anti-tailgating function	+
Blocking mechanism	FoldEmLock®
Emergency mode	Free entry/exit (gates are opened automatically)
Power fail	Fail safe (gates could be opened manually — (standard)
Standard housing	Brushed stainless steel AISI 304
Available housing	Brushed stainless steel AISI 316 / Polished stainless steel AISI 304 / Polished stainless steel AISI 316 / Powder coated (any RAL upon request)
Top lid	Solid glass top
Voltage	AC (100-240)V, 50/60Hz; DC source 12 V















pers/min

sec

OPENING/CLOSING



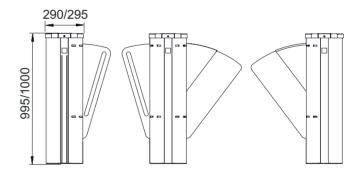


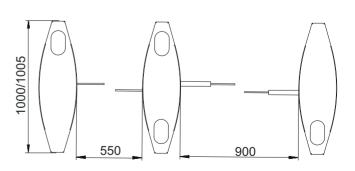


PROTECTION LEVEL

*Available	upon	request
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Model	Speedblade
Mechanism	BMDrive® servodrive (BLDC)
Anti-tailgating function	+
Blocking mechanism	DeadLock®
Emergency mode	Free entry/exit (gates are opened automatically)
Power fail	Fail safe (gates could be opened manually — standard) Automatically open — super capacitor (option)
Standard housing	Brushed stainless steel AISI 304
Available housing	Brushed stainless steel AISI 316 / Polished stainless steel AISI 304 / Polished stainless steel AISI 316 / Powder coated (any RAL upon request)
Top lid	Stainless steel top (with glass inserts) Solid glass top
Voltage	AC (100-240)V, 50/60Hz; DC source 12 V

















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OPENING/CLOSING





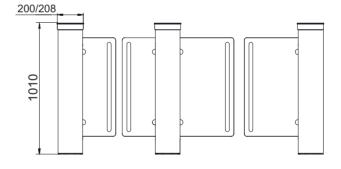


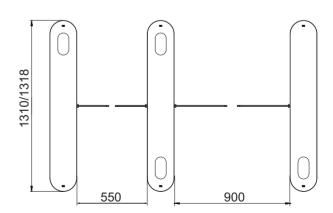
PROTECTION	LEVEL

ANTI-TAILGATING

		V		
3I-DI	REC	TIO	NΑ	ı

Model	Sweeper
Mechanism	BMDrive® servodrive (BLDC)
Anti-tailgating function	+
Blocking mechanism	ToothLock®
Emergency mode	Free entry/exit (gates are opened automatically)
Power fail	Fail safe (gates could be opened manually — standard) Automatically open — super capacitor (option)
Standard housing	Brushed stainless steel AISI 304
Available housing	Brushed stainless steel AISI 316 / Polished stainless steel AISI 304 / Polished stainless steel AISI 316 / Powder coated (any RAL upon request)
Top lid	Stainless steel top (with glass inserts) Solid glass top
Voltage	AC (100-240)V, 50/60Hz; DC source 12 V









30 25 pers/min SINGLE ACCESS



0,7 1,0

OPENING/CLOSING

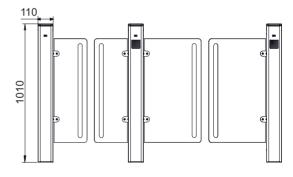


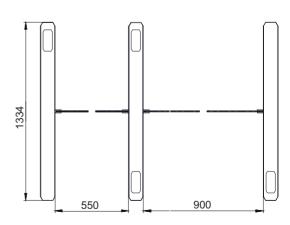




Model	Sweeper-S
Mechanism	BMDrive® servodrive (BLDC)
Anti-tailgating function	•
Blocking mechanism	PinLock®
Emergency mode	Free entry/exit (gates are opened automatically)
Power fail	Fail safe (gates could be opened manually — standard) Automatically open — super capacitor (option)
Standard housing	Brushed stainless steel AISI 304

Mechanism	BMDrive® servodrive (BLDC)
Anti-tailgating function	+
Blocking mechanism	PinLock®
Emergency mode	Free entry/exit (gates are opened automatically)
Power fail	Fail safe (gates could be opened manually — standard) Automatically open — super capacitor (option)
Standard housing	Brushed stainless steel AISI 304
Available housing	Brushed stainless steel AISI 316 / Polished stainless steel AISI 304 / Polished stainless steel AISI 316 / Powder coated (any RAL upon request)
Top lid	Stainless steel top (with glass inserts) Solid glass top
Voltage	AC (100-240)V, 50/60Hz; DC source 12 V















FREE ACCESS

OPENING/CLOSING

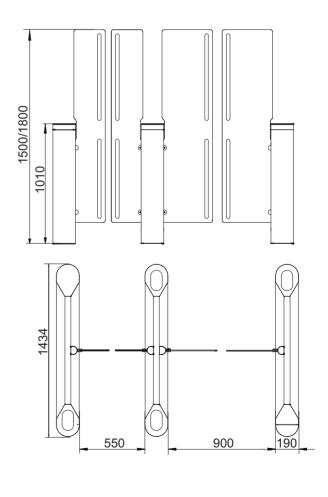


PROTECTION LEVEL





Model	Sweeper-HG
Mechanism	BMDrive® servodrive (BLDC)
Anti-tailgating function	+
Blocking mechanism	ToothLock®
Emergency mode	Free entry/exit (gates are opened automatically)
Power fail	Fail safe (gates could be opened manually — standard) Automatically open — super capacitor (option)
Standard housing	Brushed stainless steel AISI 304
Available housing	Brushed stainless steel AISI 316 / Polished stainless steel AISI 304 / Polished stainless steel AISI 316 / Powder coated (any RAL upon request)
Top lid	Stainless steel top (with glass inserts)
Voltage	AC (100-240)V, 50/60Hz; DC source 12 V















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FREE ACCESS

OPENING/CLOSING







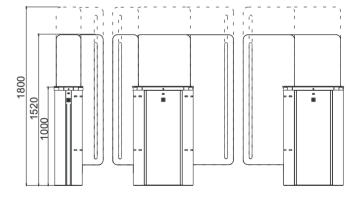
PROTECTION LEVEL

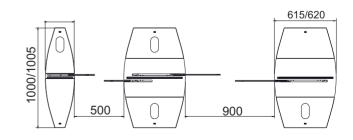
ANTI-TAILGATING

Model	Jetpan	Jetpan-900
Mechanism	BMDrive® servodrive (BLDC)	Servodrive
Anti-tailgating function		+
Blocking mechanism	DeadLock®	Electromagnetic brake
Emergency mode		ntry/exit ed automatically)
Power fail	Fail safe (gates could be opened manually — (standard) Automatically open — super capacitor (option)	
Standard housing	Brushed stainles	ss steel AISI 304
Available housing	stainless steel AISI 30 steel AISI 316 /	el AISI 316 / Polished 04 / Polished stainless Powder coated non request)

Stainless steel top

(with glass inserts) Solid glass top





Voltage

Top lid

AC (100-240)V, 50/60Hz; DC source 12 V

Stainless steel top (with glass inserts)







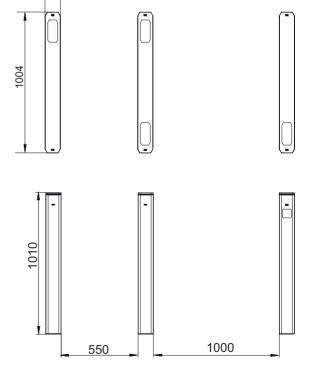




	1000
••	mm
PASSAG	E WIDTH

SAGE WIDTH	PROTECTION LEVE

Model	Phantom-S
Anti-tailgating function	+
Standard housing	Brushed stainless steel AISI 304
Available housing	Brushed stainless steel AISI 316 / Polished stainless steel AISI 304 / Polished stainless steel AISI 316 / Powder coated (any RAL upon request)
Top lid	Stainless steel top (with glass inserts) Solid glass top
Voltage	AC (100-240)V, 50/60Hz; DC source 12 V
Principle	Detection of unauthorized access and generation of alarm



Tripods

- Bi-directional motorized tripod turnstile
- Integration with any type of access control and ID systems
- Low power consumption
- Panic / bar drop function with automatic reset
- Whisper quiet, low noise operation
- Optional indoor or outdoor housing types
- Wide range of accessories
- Availability of a backup battery connection
- Any additional devices could be integrated (e.g. passage counter, RFID/Proximity/BioMetric readers, coin acceptor, push-button, barcode and QR-code reader)



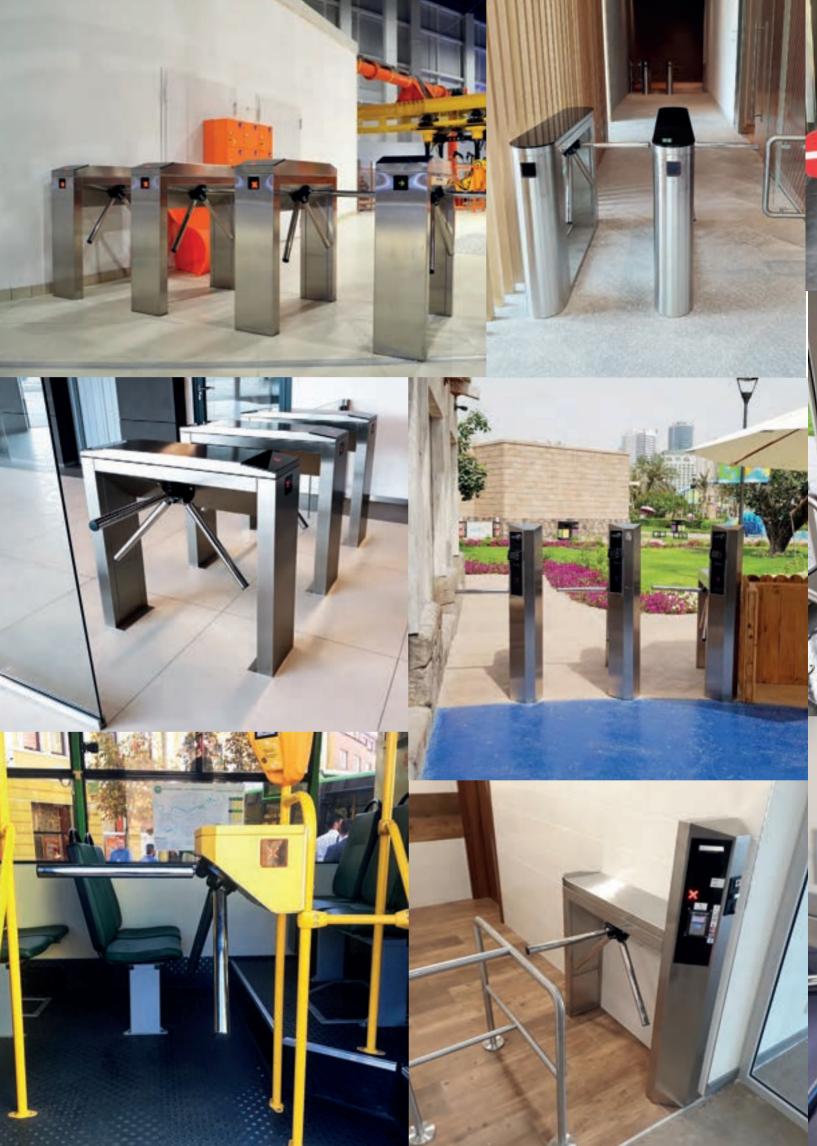


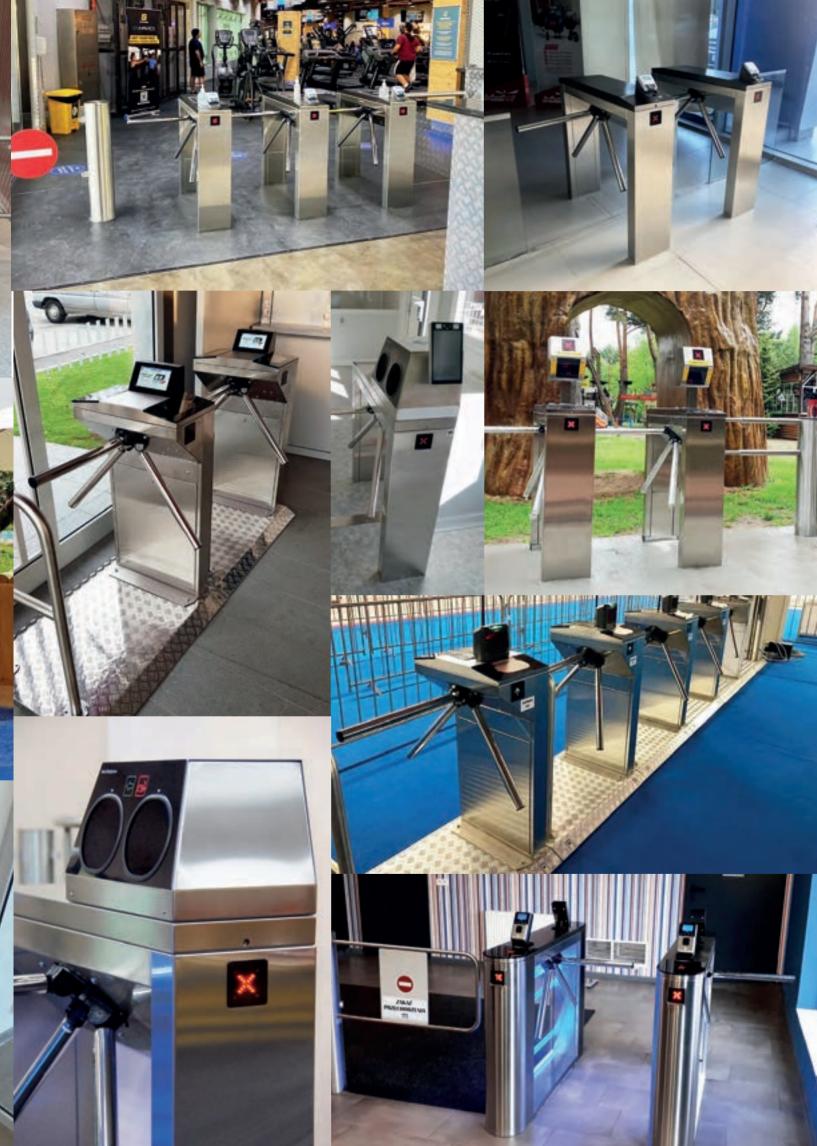
Functionality and Availability

Tripod turnstiles by TiSO company are appropriative solution for access control for high traffic area. The mechanism of our tripod turnstiles will withstand the most intense loads and will make access quick and safe.

Our tripods have anti-panic function (standard), which makes these turnstiles safe users. In case of emergency, the turnstile leashes are automatically lowered, so people can quickly leave the dangerous area.

The range of tripod turnstiles has very stylish models that are suitable for installation in stylish interiors and will definitely be an excellent addition to great design solutions.







Onyx Series

These turnstiles are equipped with an automatic bi-directional servo drive mechanism with a robust locking system and are able to operate reliably and efficiently in high traffic flow locations. This model has a robust hub with stainless steel pods and a fully automatic anti-panic system, where in the case of an emergency, the arms are automatically lowered and users can freely pass through unhindered.















FREE ACCESS

PROTECTION LEVEL



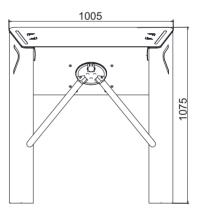


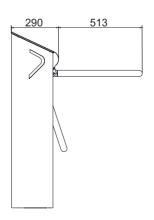


SINGLE ACCESS



Model	Onyx-M
Mechanism	Servo-driven
Blocking mechanism	Two electromagnetic stoppers (separate locking system)
Emergency mode (when the power goes off)	Fail-safe (lowering the leash)
Drop arm function	Activates manually by push button/ fire alarm system; Activates automatically when power goes off; The arm returns automatically in locking position after the power on.
Standard housing	Brushed stainless steel AISI 304
Available housing	Brushed stainless steel AISI 316 / Polished stainless steel AISI 304 / Polished stainless steel AISI 316 / Powder coated (any RAL upon request)
Voltage	AC (100-240)V, 50/60Hz; DC source 12 V







Onyx-S

















FREE ACCESS

PROTECTION LEVEL



PASSAGE WIDTH

DROP-ARM

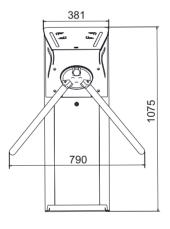


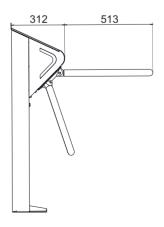
SINGLE ACCESS

SERVO-DRIVEN



Model	Onyx-S
Mechanism	Servo-driven
Blocking mechanism	Two electromagnetic stoppers (separate locking system)
Emergency mode (when the power goes off)	Fail-safe (lowering the leash)
Drop arm function	Activates manually by push button/ fire alarm system; Activates automatically when power goes off; The arm returns automatically in locking position after the power on.
Standard housing	Brushed stainless steel AISI 304
Available housing	Brushed stainless steel AISI 316 / Polished stainless steel AISI 304 / Polished stainless steel AISI 316 / Powder coated (any RAL upon request)
Voltage	AC (100-240)V, 50/60Hz; DC source 12 V

















25 pers/min







PROTECTION LEVEL





SINGLE ACCESS

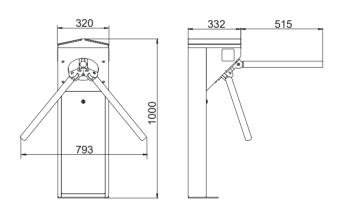




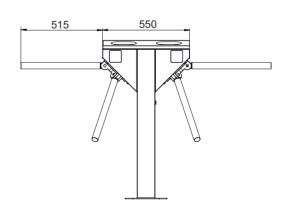
*Available upon request

Model	Centurion-M/M Twin
Mechanism	Servo-driven (Triservo-M)
Blocking mechanism	Two electromagnetic stoppers (separate locking system)
Emergency mode (when the power goes off)	Fail-safe (lowering the leash)
Drop arm function	Activates manually by push button/ fire alarm system; Activates automatically when power goes off; The arm returns automatically in locking position after the power on.
Standard housing	Brushed stainless steel AISI 304
Available housing	Brushed stainless steel AISI 316 / Polished stainless steel AISI 304 / Polished stainless steel AISI 316 / Powder coated (any RAL upon request)
Voltage	AC (100-240)V, 50/60Hz; DC source 12 V

Centurion-M



Centurion-M Twin



















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PROTECTION LEVEL

Bastion-M





SINGLE ACCESS

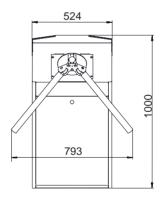


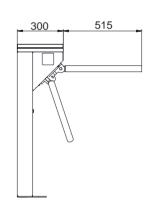


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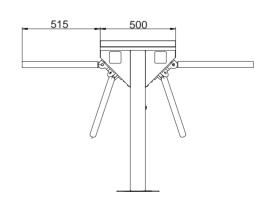
*Available upon request

Model	Bastion-M/M Twin
Mechanism	Servo-driven (Triservo-M)
Blocking mechanism	Two electromagnetic stoppers (separate locking system)
Emergency mode (when the power goes off)	Fail-safe (lowering the leash)
Drop arm function	Activates manually by push button/ fire alarm system; Activates automatically when power goes off; The arm returns automatically in locking position after the power on.
Standard housing	Brushed stainless steel AISI 304
Available housing	Brushed stainless steel AISI 316 / Polished stainless steel AISI 304 / Polished stainless steel AISI 316 / Powder coated (any RAL upon request)
Voltage	AC (100-240)V, 50/60Hz; DC source 12 V





Bastion-M Twin







600



25 pers/min







SINGLE ACCESS

FREE ACCESS

PROTECTION LEVEL



PASSAGE WIDTH



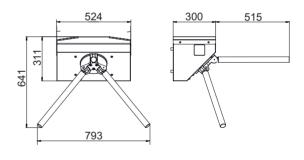




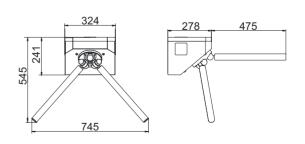
*Available upon request

Model	Skull-M	Skull BUS	
Mechanism	Servo-driven (Triservo-M)	Servo-driven	
Blocking mechanism	Two electromagnetic stoppers (separate locking system)	Single electromagnetic brake (general locking system)	
Emergency mode (when the power goes off)	Fail-safe (lowering the leash)		
Drop arm function	Activates manually by push button/ fire alarm system; Activates automatically when power goes off; The arm returns automatically in locking position after the power on.	Drop arm function can be activated when power is available only (or within using super capacitor module)	
Standard housing	Brushed stainless steel AISI 304		
Available housing	Brushed stainless steel AISI 316 / Polished stainless steel AISI 304 / Polished stainless steel AISI 316 / Powder coated (any RAL upon request)		
Voltage	AC (100-240)V, 50/60Hz; DC source 12 V		

Skull-M



Skull-BUS







600

PASSAGE WIDTH















FREE ACCESS

PROTECTION LEVEL





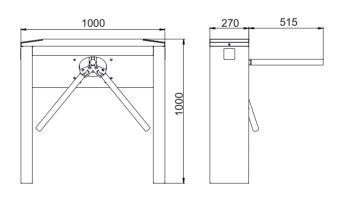
SINGLE ACCESS



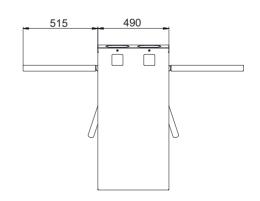
DROP-ARM *Available upon request

Model	Twix-M/M Twin
Mechanism	Servo-driven (Triservo-M)
Blocking mechanism	Two electromagnetic stoppers (separate locking system)
Emergency mode (when the power goes off)	Fail-safe (lowering the leash)
Drop arm function	Activates manually by push button/ fire alarm system; Activates automatically when power goes off; The arm returns automatically in locking position after the power on.
Standard housing	Brushed stainless steel AISI 304
Available housing	Brushed stainless steel AISI 316 / Polished stainless steel AISI 304 / Polished stainless steel AISI 316 / Powder coated (any RAL upon request)
Voltage	AC (100-240)V, 50/60Hz; DC source 12 V

Twix-M



Twix-M Twin











25 pers/min









FREE ACCESS





DROP-ARM

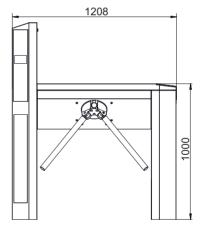


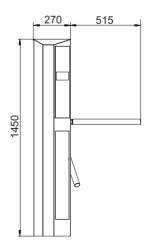


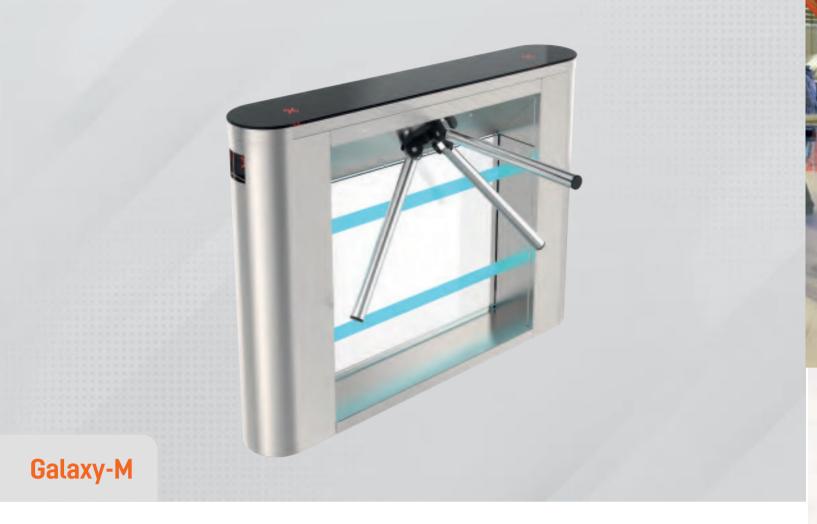


*Available upon request

Model	Twix All-in-one-M
Mechanism	Servo-driven (Triservo-M)
Blocking mechanism	Two electromagnetic stoppers (separate locking system)
Emergency mode (when the power goes off)	Fail-safe (lowering the leash)
Drop arm function	Activates manually by push button/ fire alarm system; Activates automatically when power goes off; The arm returns automatically in locking position after the power on.
Standard housing	Brushed stainless steel AISI 304
Available housing	Brushed stainless steel AISI 316 / Polished stainless steel AISI 304 / Polished stainless steel AISI 316 / Powder coated (any RAL upon request)
Voltage	AC (100-240)V, 50/60Hz; DC source 12 V









600



25 pers/min









PASSAGE WIDTH

SINGLE ACCESS

FREE ACCESS

PROTECTION LEVEL

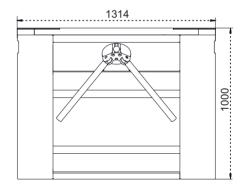


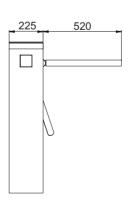


MOTORIZED



Model	Galaxy-M
Mechanism	Servo-driven (Triservo-M)
Blocking mechanism	Two electromagnetic stoppers (separate locking system)
Emergency mode (when the power goes off)	Fail-safe (lowering the leash)
Drop arm function	Activates manually by push button/ fire alarm system; Activates automatically when power goes off; The arm returns automatically in locking position after the power on.
Standard housing	Brushed stainless steel AISI 304
Available housing	Brushed stainless steel AISI 316 / Polished stainless steel AISI 304 / Polished stainless steel AISI 316 / Powder coated (any RAL upon request)
Voltage	AC (100-240)V, 50/60Hz; DC source 12 V







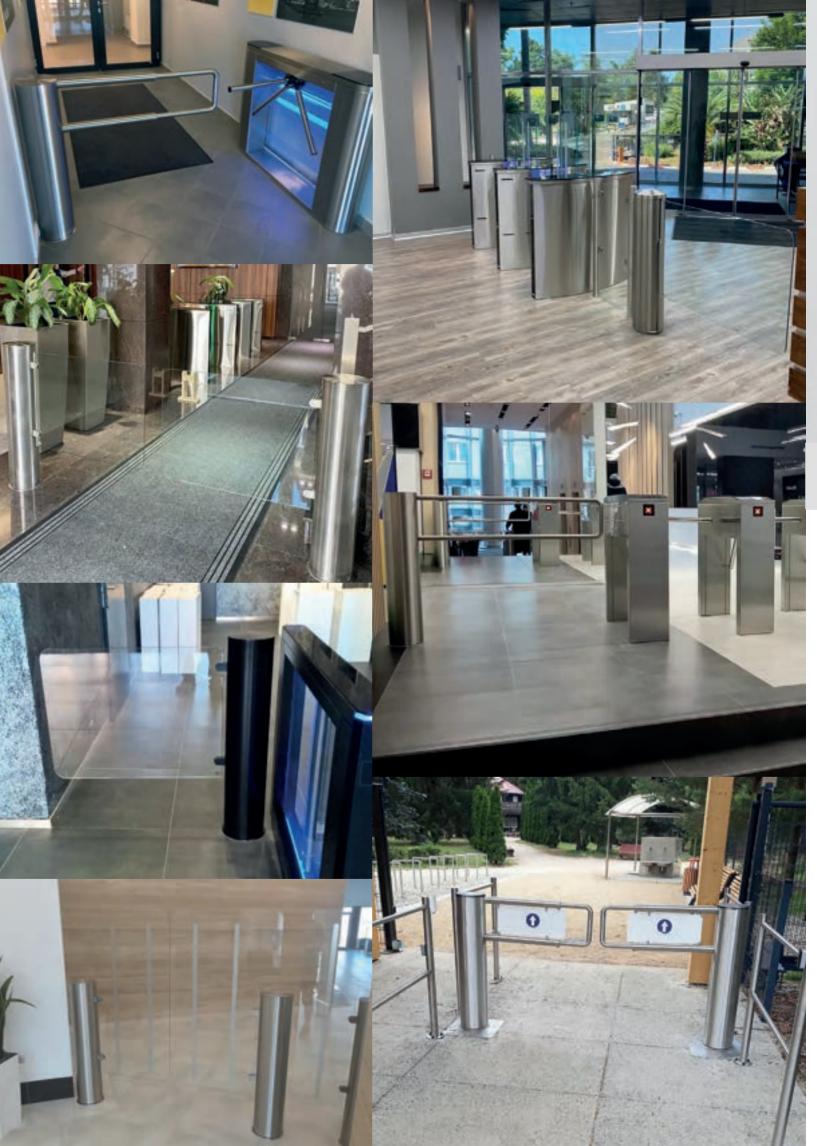
Swing Gates

- Motorized;
- Bi-directional;
- Integration with any type of access control and ID systems;
- Low power consumption;
- Whisper quiet, low noise operation;
- Possibility of a barrier gate customization;
- Complete supply set as a standard.





the entrance group of turnstiles









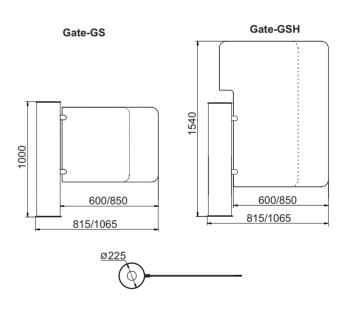


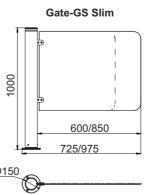
SAGE FOR DISABLED MOTORIZE

BI-DIRECTIONA

Model	Gate-GS/GSH/Slim
Mechanism	Servo-driven
Operation mode	CW (100°) and CCW (100°)
Blocking mechanism	Single electromagnetic brake
Emergency mode	Gate is open
Drop arm function	Fail-safe — free rotation (standard) Automatically open — super capacitor (option)
Standard housing	Brushed stainless steel AISI 304
Available housing	Brushed stainless steel AISI 316 / Polished stainless steel AISI 304 / Polished stainless steel AISI 316 / Powder coated (any RAL upon request)
Voltage	AC (100-240)V, 50/60Hz; DC source 12 V

Gate-GS/GSH/Slim







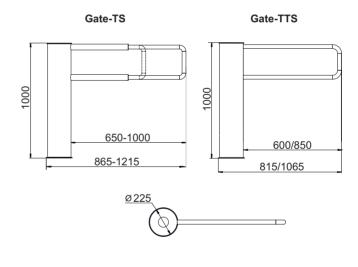


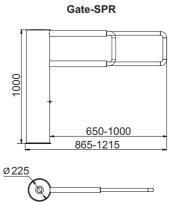




PASSA	GE EO	R DISA	BI FD
FMJJM	GLIO	K DISP	IDLLD

Model	Gate-TS/TTS	Gate-SPR
Mechanism	Servo-driven	Mechanical
Operation mode	CW (100°) and CCW (100°)	
Blocking mechanism	Single electromagnetic brake	Can be locked manualy by key
Emergency mode	Gate is open	Can be unlocked manualy by key
Drop arm function	Fail-safe — free rotation (standard) Automatically open — super capacitor (option)	-
Standard housing	Brushed stainless steel AISI 304	
Available housing	Brushed stainless steel AISI 316 / Polished stainless steel AISI 304 / Polished stainless steel AISI 316 / Powder coated (any RAL upon request)	
Voltage	AC (100-240)V, 50/60Hz; DC source 12 V	-







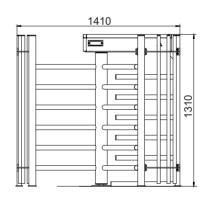


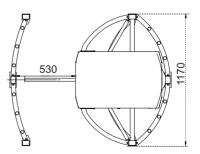




PASS	ΔGF	FOR	DISA	BLFD)

Model	Cyclone-L
Mechanism	Servo-driven
Blocking mechanism	Two electromechanical stop catches (separate locking system)
Emergency mode	Free pass in both directions
Power fail	Fail secure (standard) Fail safe (option)
Standard housing	Brushed stainless steel AISI 304
Available housing	Brushed stainless steel AISI 316 / Polished stainless steel AISI 304 / Polished stainless steel AISI 316 / Powder coated (any RAL upon request)
Voltage	AC (100-240)V, 50/60Hz; DC source 12 V





Full-height turnstiles

- Can be supplied as fully welded or in disassembled condition which has perfect effect to transportation cost;
- Turnstile is Bi-directional;
- Depending on installation place conditions and Customer`s requirements can be produced of different types of material;
- Y-type or X-type of rotor for your choice available;
- Easy integration with any type of ACS;
- Low power consumption as well as low noise operation;
- Possibility of customization;
- Fail safe or fail secure for your choice;
- Indoor/outdoor application.





TOTAL SECURITY OF THE SITE

TiSO full-height turnstiles ensures vandal proof security level to large variety of possible applications: stadiums, factories, parks, premises with highest security requirements etc. Strenght and durability is granted by robust fully welded design. On the other hand, attractive for shipment assembly modification of automatic barrier gate is also available.











SINGLE ACCESS



FREE ACCESS





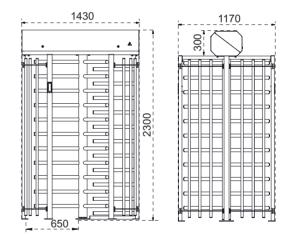
PROTECTION LEVEL

PROTECTION LEVEL

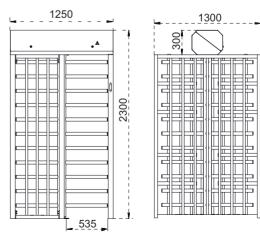
*Available upon request

Model	Sesame
Mechanism	Electromechanical (standard) Servo-drive (option)
Blocking mechanism	Two electromechanical stop catches (separate locking system)
Emergency mode	Free pass in both directions
Power fail	Fail secure (standard) Fail safe (option)
Construction features	Disassembled (standard) Full welded (option). Could be installed by a crane.
Standard housing	Brushed stainless steel AISI 304
Available housing	Brushed stainless steel AISI 316 / Polished stainless steel AISI 304 / Polished stainless steel AISI 316 / Powder coated (any RAL upon request)
Voltage	AC (100-240)V, 50/60Hz; DC source 12 V

Sesame Y-type



Sesame X-type









SINGLE ACCESS



FREE ACCESS



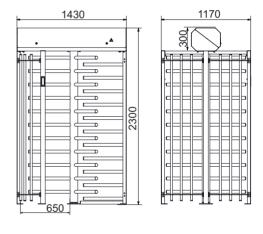


PROTECTION LEVEL

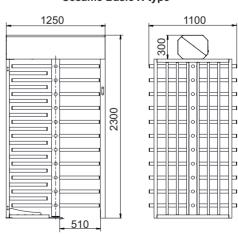
*Available upon request

Model	Sesame Basic
Mechanism	Electromechanical (standard) Servo-drive (option)
Blocking mechanism	Two electromechanical stop catches (separate locking system)
Emergency mode	Free pass in both directions
Power fail	Fail secure (standard) Fail safe (option)
Construction features	Disassembled (standard) Full welded (option). Could be installed by a crane.
Standard housing	Brushed stainless steel AISI 304
Available housing	Brushed stainless steel AISI 316 / Polished stainless steel AISI 304 / Polished stainless steel AISI 316 / Powder coated (any RAL upon request)
Voltage	AC (100-240)V, 50/60Hz; DC source 12 V

Sesame Basic Y-type



Sesame Basic X-type











SINGLE ACCESS





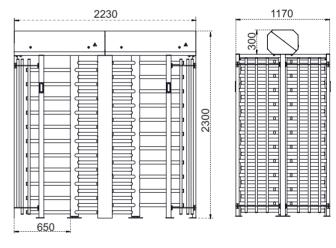


PROTECTION LEVEL

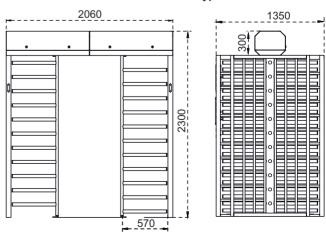
*Available upon request

Model	Sesame Twin
Mechanism	Electromechanical (standard) Servo-drive (option)
Blocking mechanism	Two electromechanical stop catches (separate locking system)
Emergency mode	Free pass in both directions
Power fail	Fail secure (standard) Fail safe (option)
Construction features	Disassembled (standard) Full welded (option). Could be installed by a crane.
Standard housing	Brushed stainless steel AISI 304
Available housing	Brushed stainless steel AISI 316 / Polished stainless steel AISI 304 / Polished stainless steel AISI 316 / Powder coated (any RAL upon request)
Voltage	AC (100-240)V, 50/60Hz; DC source 12 V

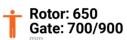
Sesame Twin Y-type



Sesame Twin X-type













30 pers/min

PASSAGE WIDTH

SINGLE ACCESS

FREE ACCESS



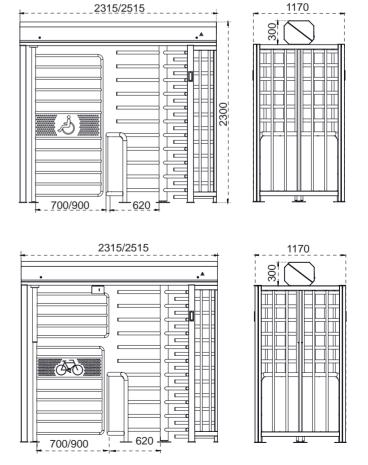


PROTECTION LEVEL

BI-DIRECTIONAL

*Available upon request

Model	Bicyclone
Mechanism	For rotor: Electromechanical (standard) Servo-drive (option) For gate: Servo-drive
Blocking mechanism	Two electromechanical stop catches (separate locking system)
Emergency mode	Free pass in both directions
Power fail	Fail secure (standard) Fail safe (option)
Construction features	Disassembled (standard) Full welded (option). Could be installed by a crane.
Standard housing	Brushed stainless steel AISI 304
Available housing	Brushed stainless steel AISI 316 / Polished stainless steel AISI 304 / Polished stainless steel AISI 316 / Powder coated (any RAL upon request)
Voltage	AC (100-240)V, 50/60Hz; DC source 12 V















FREE ACCESS

PASSAGE WIDTH



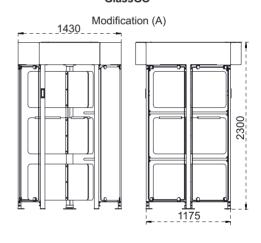


PROTECTION LEVEL

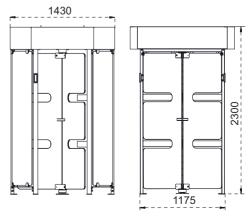
BI-DIRECTIONAL

Model	GlassGO (A)	GlassGO (B)		
Rotor type	Nine glass leaves angle between arms 120°	Tree shaped glass leaves angle between arms 120°		
Wrong way prevention	Fencing			
Mechanism	Servo-drive			
Blocking mechanism		Two electromechanical stop catches (separate locking system)		
Emergency mode	Free pass in both directions			
Power fail	Fail secure (standard) Fail safe (option)			
Standard housing	Brushed stainless steel AISI 304			
Available housing	Brushed stainless steel AISI 316 / Polished stainless steel AISI 304 / Polished stainless steel AISI 316 / Powder coated (any RAL upon request)			
Voltage	AC (100-240)V, 50/60Hz; DC source 12 V			

GlassGO









GlassGO-S





20 pers/min



FREE ACCESS

PASSAGE WIDTH



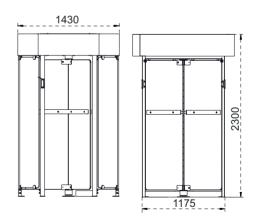


PROTECTION LEVEL

BI-DIRECTIONAL

Model	GlassGO-S
Rotor type	Three solid glass leaves angle between arms 120°
Wrong way prevention	Motion sensors (with sound alarm)
Mechanism	Servo-drive
Blocking mechanism	Two electromechanical stop catches (separate locking system)
Emergency mode	Free pass in both directions
Power fail	Fail secure (standard) Fail safe (option)
Standard housing	Brushed stainless steel AISI 304
Available housing	Brushed stainless steel AISI 316 / Polished stainless steel AISI 304 / Polished stainless steel AISI 316 / Powder coated (any RAL upon request)
Voltage	AC (100-240)V, 50/60Hz; DC source 12 V

GlassGO-S



Additional equipment



TiSO dispenser stand is equipped with:

- mechanism of dispenser;
- contactless sensor;
- a key for maintenance of stand;
- built-in liquid tank;
- drip tray made of stainless steel;
- AC/DC power supply;
- disinfectant is not included.

Automatic touchless liquid dispenser stand

TiSO dispenser stand is a modern solution against the spread of viruses and bacteria. The non-contact sensor activates the spray of disinfectant liquid on the hands, cleaning them. Thanks to the modern design, such stand will look appropriate in any interior. Also, the TiSO dispenser rack is easy to maintain. And the liquid in the tank can be quickly updated. The sensor registers when your hands are approaching the dispenser area and automatically activates the flow of liquid. If infrared sensor no longer detects movement, the dispenser will operate once and switch into standby mode, which is confirmed by white flashing light. The dispenser will be ready for use once the sensor detects the light gap again. This increases cost efficiency as it will not operate if any object comes into sensor area.

Type of liquid	Non-viscous liquid		
Type of control	Automatic touchless		
Volume	2 000 ml		
Sensing distance	Adjusted		
liquid dispensing time / dosage	0,5s / 1s / 2,5s / 4s / 6s / 0,33ml 0,66ml 1,66ml 2,6ml 4ml		
Average liquid consumption	6000 doses		
Power supply	Input voltage (100 ~ 240 V), output voltage / current (12 V / 1 A)		
Power consumption	<=12 W		
Ingress Protection	IP41		
Light indication	RGB LED Backlighting		
Installation type of stand-dispenser	floor-mounted		
Material and housing	Brushed SS AISI 304 / Powder coated (any RAL upon request)		
Dispenser zone height	900 mm		
Item dimensions (HxLxW)	1120 × 154 × 194 mm		
Overall size of a stand basis (LxW)	400 x 400 mm		
Weight	<= 16 kg		



Twix-M-HD

The issue of hand disinfection is becoming essential task that requires the involvement of personnel for constant monitoring the disinfection process. To simplify this, TiSO has developed a complete TWIX-M-HD solution for automatic hand disinfection and access control. Smart system and contactless sensors control the entire disinfection cycle of both hands simultaneously. TiSO TWIX-M-HD automatic disinfection system completely excludes the possibility of a person passing through a turnstile until complete disinfection cycle of both hands. The installation of our comprehensive solution TiSO TWIX-M-HD eliminates the need for additional monitoring personnel at building entrances during a pandemic. Moreover TWIX-M-HD-TFR is absolutely all in one: disinfection hands control, wearing protective mask check, measuring temperature.

Features of Twix-M-HD

- Bi-directional motorized tripod turnstile with panic / bar drop-arm function (standard)
- Smart system and contactless sensors control the entire disinfection cycle of both hands simultaneously
- Integration with any type of access control and ID systems
- Low power consumption

- Panic / bar drop-arm function with automatic reset
- Whisper quiet, low noise operation
- Optional indoor or outdoor housing types
- Wide range of accessories
- Availability of a backup battery connection
- Complete supply set as a standard



Emergency door

Emergency Door with Magnetic Lock is designed for installation as a part of a full-height turnstile to provide a free exit in an emergency case for evacuation or in case of unavailable power to the turnstile. Also the door is used for pulling through bigsized items.



Enclosure

Stylish enclosure (balustrade) from TiSO is now becomes unseparatable accessory for any our turnstiles. Its design is very simple but really efficient and easy-to install. You can purchase any combination of side or middle posts with different width of glass.



Emergency gate

Emergency gate is designed for installation at the entry points in enterprises, administrative facilities, banks and other sites to provide a free exit in an emergency case for evacuation or for pulling through big-sized items.



Mobile Platform

Mobile Platform consists of landing, enclosure, and can have any tripod turnstile attached to it. The main purpose of the Mobile Platform is to ensure quick and easy displacement of an installed tripod turnstile to a place of temporary usage.



TWiC

TWiC manages and controls large group of turnstiles and road blockers. The user friendly 8"touch screen display graphics requires minimal training for proficiency in navigating the various pages, remotely controlling the lanes and understanding the real time feedback such as alarm events when unauthorized access is detected.



Card reader/Card collector

Card readers/Card collectors are designed for installation as a part of an access control system for enterprises, administrative facilities, banks and other sites. Elegance, lightness and simplicity make this model very popular as part of access control system.

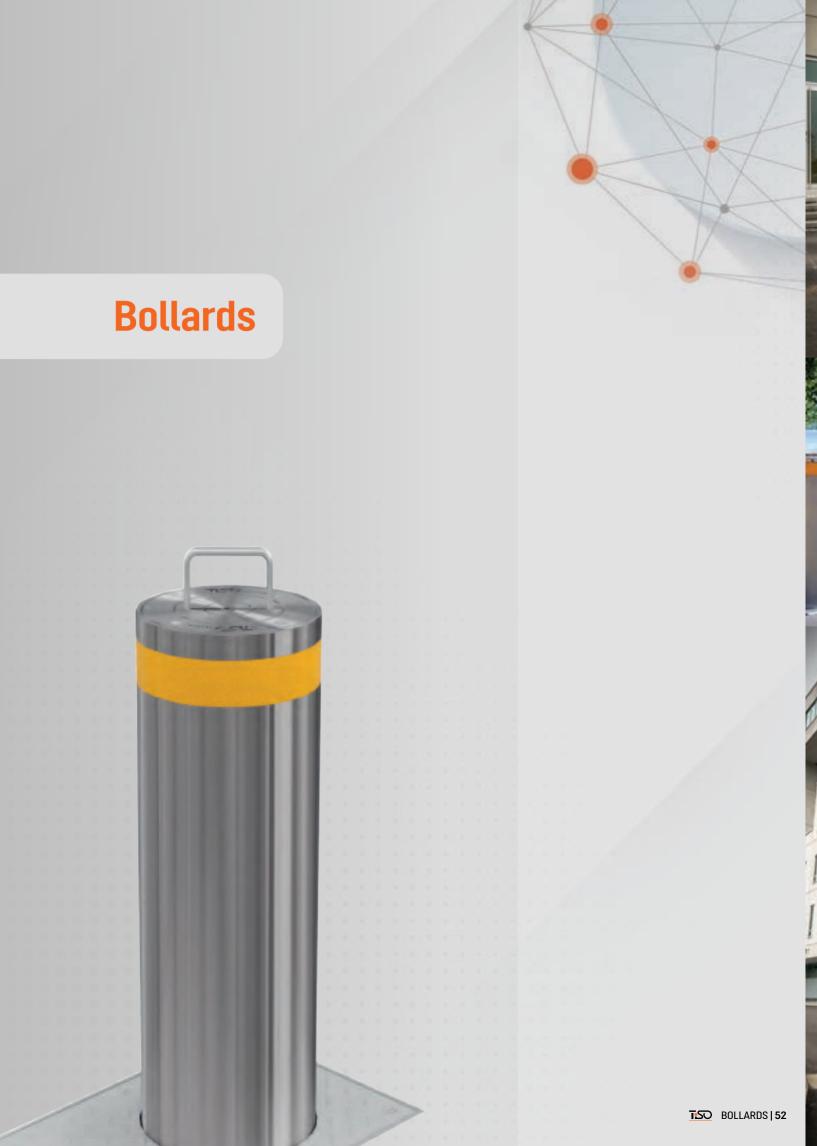


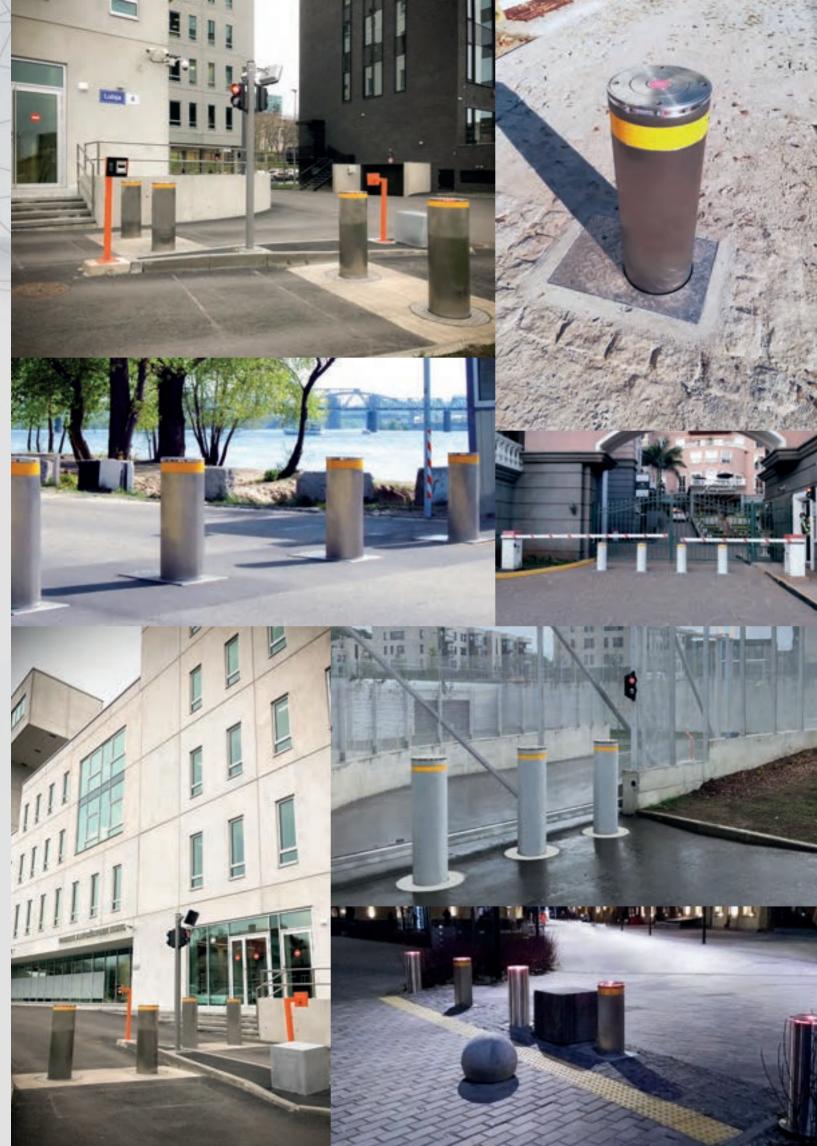
Occupancy control and people counter system

Occupancy control and people counter system was developed to prevent the spread of the disease. In order to prevent the spread of the disease number of people who can be present in stores simultaneously should be limited. Therefore, we came up with turnstile solution which will enable you to control number of people coming in and out of stores daily.

Systems to detect symptoms of virus

Systems to detect symptoms of virus is special solution for authorizing access depending on persons state of health. More specifically, such system enables to limit access of people with suspected disease symptoms such as high temperature. TiSO speed gates with special integrated authorization system performs face identification and monitors body temperature Such solution can be widely used in public places like hospitals, airports, border control zones, etc.





Fixed/Removable bollards



Traffic fixed bollards

TiSO fixed and removable traffic bollards are widely used as static barriers in order to provide vehicle access control and parking management of secured areas. Due to bollards' design and wide variety of available models, this type of solution becomes a good addition to different urban architectural concepts.

Model	RB344-36	RB344-39	RB344-37	RB344-40
Туре	Traffic fixed bollards			
Tube diameter, mm	220	273	220	273
Tube height, mm	600		800	
Installation depth, mm	300			

Tube materials

Brushed stainless steel AISI 304 Brushed stainless steel AISI316. Galvanized and powder coated tube (any RAL upon request)

ASTM F2656/IWA14-1







High security fixed/removable bollards

TiSO high security fixed and removable bollards are the most cost effective solution for vehicle unauthorized access prevention. Being pedestrian friendly, TiSO high security bollards correspond to the requirements of anti-terroristic protection. Installation simplicity and absence of necessity in service maintenance are the main features to be outlined. On the other hand, the greatest advantage related to its mobility, when free access is required. Advanced technologies and large manufacturing experience allow TiSO high security fixed bollards to be simple, reliable, and wellfitting equipment.

Model	RB343-68	RB345-09-S-035	
Туре	High security fixed / removable bollards		
Security class	ASTM F2656/F2656 M-15, M50, P2; IWA 14-1:2013, Bollard V/7200[N2B]/80/90:4.1	ASTM F2656/2656M-20, M50 (K12), P1; IWA 14-1:2013, Bollard V/7200[N2B]/80/90:0.7	
Tube diameter, mm	325	355	
Tube height, mm	100	1200	
Wall thickness, mm	20	30	
Tube materials	Galvanized and powder coated tube (any RAL upon request)		

Removable bollards



Traffic removable bollards

TiSO removable traffic bollards is one more solution for vehicle access control management. The main difference to regular fixed/static bollards determined by mobility which provides free driveway in case of necessity. To get bollard unlocked, the only thing which has to be done is a simple turn of a key. The range of removable bollards available in different dimensions, blocking heights, tube's materials, and diameters. Intended for vehicle access control with little traffic intensity.

Model	RB345-02	RB345-01	RB345-05	RB345-04
Туре	Traffic removable bollards			
Tube diameter, mm	170	220	170	220
Tube height, mm	600		800	
Wall thickness, mm	4	4	4	
Installation depth, mm	300			
Tube materials	Brushed stainless steel AISI 304 Brushed stainless steel AISI 316. Galvanized and powder coated tube (any RAL upon request)			



Traffic manual retractable bollards

Manually retractable bollard intends to be used as a static obstacle in order to secure pedestrian or other areas from unauthorized vehicle traffic. Herewith these bollards can be a perfect choice for installations which require temporary free driveways during certain hours of a day, night time for instance. As for other advantages, these bollards do not need power supply.

Model	RB345-62 RB345-51		RB345-65	RB345-54		
Туре		Traffic manual re	tractable bollards			
Tube diameter, mm	140	220	140	220		
Tube height, mm	6	00	800			
Wall thickness, mm		4	4			
Installation depth, mm	8	80	1080			
Tube materials	Brushed stainless steel AISI 304 Brushed stainless steel AISI 316. Galvanized and powder coated tube (any RAL upon request)					

Semi-automatic bollards



With gas-spring mechanism

TiSO semi-automatic bollards is a perfect solution for effective vehicle access control under the circumstances of unavailable power supply. Semi-automatic bollards have gas spring mechanism which is locked at down position and rise rapidly when released. Being complete and independent solution, semi-automatic bollards require manual impact for driveway opening or closing.

Model	RB343-60	RB343-61	RB343-63	RB343-64		
Drive	Gas-spring mechanism					
Tube diameter, mm	220	273	220	273		
Tube height, mm	6	500	800			
Wall thickness, mm		•	4			
Axle load, t	10					
Tube materials	Brushed stainless steel AISI 304 Brushed stainless steel AISI 316. Galvanized and powder coated tube (any RAL upon request)					



With drill drive mechanism

The same like semi-automatic, TiSO drill drive bollards intend to fit installations without power supply availability. The operation principle determined by the drill impact, which gets blocking segment up or down according to screw direction. This solution intends to manage traffic of low intensity and featured with outstanding lifetime, due to lack of consumables in its operation and design concept.

Model	RB343-01 RB343-02		RB343-04	RB343-05		
Drive		Drill drive	nechanism			
Tube diameter, mm	220	273	220	273		
Tube height, mm		600	800			
Wall thickness, mm		4	4			
Axle load, t	10					
Tube materials	Brushed stainless steel AISI 304 Brushed stainless steel AISI 316 Galvanized and powder coated tube (any RAL upon request)					

Traffic automatic bollards

TiSO automatic bollards are engineered in order to provide maximum operation durability. Traffic bollards is the perfect choice for installations at private and other areas without strict requirement to antiterrorism protection. All equipment is designed and tested for high intensity operation.



Model	RB343-21	RB343-23	RB349-11	RB349-12	RB343-24	RB343-26	RB349-14	RB349-15
Туре	Traffic hydraulic bollards							
Tube diameter, mm	114	170	220	273	114	170	220	273
Tube height, mm		600				80	00	
Wall thickness, mm	3	5	4	8	3	5	4	8
Axle load, t	15							
Rising/Lowering time, s (+/- 1s)		7,0	/5,5			9,0/	/8,0	
Operating temperatures*, °C				-40	/ +60			
Power supply				1 phase 230	OV, 50/60 Hz			
Protection level	IP 67 (for bollard); IP 55 (for control box)							
Tube materials	Brushed stainless steel AISI 304 Brushed stainless steel AISI 316. Galvanized and powder coated tube (any RAL upon request)							

High-security automatic bollards

4514

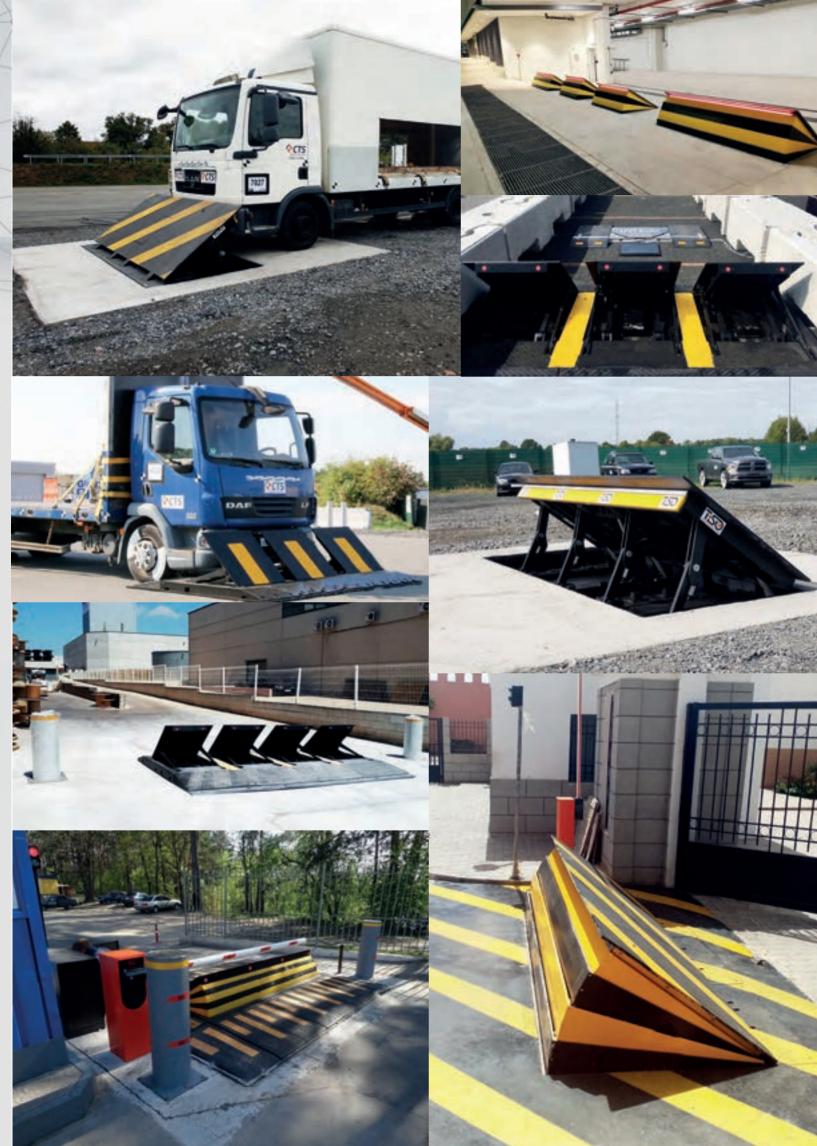
ASTM F2656

RB348	RB342			
High security hy	draulic bollards			
ASTM F2656-07, M30, P1	ASTM F2656-07, M50, P1			
325	325			
1000	1200			
20	30			
679 900	1 845 000			
1	5			
4,0/3,5 (1,	5 with EFO)			
-40 /	+60			
3 phase 400	V, 50/60 Hz			
IP 67 (for bollard); IF	P54 (for control box)			
Galvanized and powder coated tube (any RAL upon request) Stainless steel sleeve (casing up on request				
	High security hy ASTM F2656-07, M30, P1 325 1000 20 679 900 1 4,0/3,5 (1,3-40 / 3 phase 400 IP 67 (for bollard); II Galvanized and pow RAL upon request) St			

TiSO automatic high security bollards intend to prevent vehicles unauthorized access to secured areas and keep the highest level of antiterrorism protection. It demanded for installation sites with high risk of heavy vehicle attack: public places (stadiums, fairgrounds), governmental

institutions, or military infrastructures etc. This type of equipment can be easily connected with ACS and other vehicle access control equipment (arm barriers etc.).







City-light Cyclopes is an outstanding part of TiSO traffic barriers range. This type of equipment intends to manage pedestrian friendly vehicle access control. In difference to bollards, Cyclope does not require big installation depth. This kind of approach is a good solution to simplify installation and service maintenance procedures. All features in common make Cyclope well applicable solution to the widest range of projects with large scope of requirements.

Model	RB319-01
Installation type	Shallow mounted
Drive	Hydraulic
Width, mm	265
Height, mm	605
Axle load, t	15
Rising time, s (+/- 1s)	5,0
Lowering time, s (+/- 1s)	4,0
Operating temperatures*, °C	-40/ +60
Power supply	1 phase 230V, 50/60 Hz
Protection level	IP 67 (for road blocker); IP 54 (for control box)
Materials	Brushed stainless steel AISI 304: Structural steel C22 (powder coated)







ASTM F2656/IWA14-1

High security Cyclopes

High security Cyclopes ensure highest level of anti-terrorism protection. As far as it was certified according to ASTM F2656/F2656-15, M40, P1 & IWA14-1, Blocker V/7200[N2B]/64/90:12.1 standards. The blocking segment is operated from outside control box with HPU and PLC in it. Interconnection between two elements provided via connection cable and power/oil hoses.

Model	RB320-01	RB320-02	RB320-03					
Security class	Designed to keep ASTM F2656, M30 (K4) standard	ASTM F2656/F2656 M-15, M40, P1; IWA 14-1:2013 Blocker V/7200 [N2B]/64/90:-0,2	Designed to keep ASTM F2656, M50 (K12) standard					
Installation type		Shallow mounted						
Drive		Hydraulic (HPU)						
Width, mm		500						
Height, mm	800	900	1100					
Impact resistance, J	656 000	1 110 000	1 680 000					
Axle load, t		15						
Rising time, s (+/- 1s)		3,5						
Lowering time, s (+/- 1s)		2,0						
Operating temperatures*, °C		-40/ +60						
Power supply	3 phase 400V, 50/60 Hz							
Protection level	IP 67 (for road blocker) IP 54 (for control box)							
Materials		Structural steel C22 (powder coated)						



Its biggest advantage relates to installation type options, including both surface/ above the ground and shallow mounting/ground level installations, with frequent use at high intensity mode all the same. Dealing with surface / above the ground installation, at raised position TiSO serves like a regular wedge barrier. When closed, it performs the function of a speed hump. In this case, we also get the benefit of equipment mobility, as user is able to remove it from the driveway if necessary.

Model	RB357-02	RB357-03	RB357-04			
Installation type	Shallow mounted / Above the ground (with ramps)					
Drive		Hydraulic (HPU)				
Width, mm	2000	3000	4000			
Height, mm	350					
Axle load, t		15				
Rising time, s (+/- 1s)	4,0	5,5	7,5			
Lowering time, s (+/- 1s)	2,5	3,5	4,5			
Operating temperatures*, °C		-40 / +60				
Power supply		1 phase 230 V, 50/60 Hz				
Protection level	IP 67 (for road blocker) IP 54 (for control box)					
Materials moving part	Structural steel C22 (powder coated)					
Materials ramps		Structural rubber				



Model	RB359-02	RB359-03	RB359-04			
Security class	ASTM F2656/F2656 M-15, M30, P1; IWA 14-1:2013 Blocker V/7200 [N2B]/48/90:-0,3					
Installation type	Shallow n	nounted / Above t (with ramps)	he ground			
Drive	Hydraulic (HPU)					
Width, mm	2000	3000	4000			
Height, mm	500					
Impact resistance, J	664 000					
Axle load, t		15				
Rising time, s		3,5 (1,5 with EFO)				
Lowering time, s		3,5				
Operating temperatures*, °C		-40 / +60				
Power supply	3 p	hase 400V, 50/60	Hz			
Protection level	IP 67 (for b	locker) IP 54 (for	control box)			
Materials moving part	Structura	l steel C22 (powd	er coated)			
Materials ramps		Structural rubber				

This type of equipment has the same engineering principle and optional functionality as previously described City-Light Speedbumps. However, being certified according to ASTM F2656/F2656-15, M30, P1 & IWA14-1, Blocker V/7200[N2B]/48/90:0,3 standards, this access control equipment is useful to provide antiterroristic protection level. The standard delivery set includes blocking segment, control box with HPU and PLC, connection cable, power/oil hoses, and push-button control unit. Herewith large list of accessories enables its adapting to various severe weather and environment conditions. Well selected list of available blocking widths, together with availability of customized solutions, installation simplicity, and high security are useful to get a wide extension of successful projects.



ASTM F2656/IWA14-1

High security Mobile Speedbumps

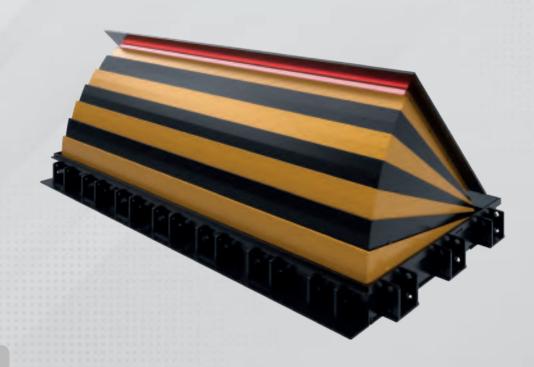
Model	RB358-06	RB358-07	RB358-08			
Security class	ASTM F2656/F2656M-18a, M30, P2; IWA 14- 1:2013, Blocker V/7200[N2B]/48/90:5.3					
Installation type	Above the gr	ound (mobile, wit	h no fixation)			
Drive	Hydraulic (build-in)					
Width, mm	2000	3000	4000			
Height, mm	570					
Impact resistance, J	673 000					
Axle load, t		15				
Rising time, s (+/- 1s)		2,6				
Lowering time, s (+/- 1s)		2,0				
Operating temperatures*, °C		-40 / +60				
Power supply	1 phase 230**V, 50/60 Hz					
Protection level	IP 67 (for road blocker) IP 54 (for control box)					
Materials	Structural steel (galvanized and powder coated)					

TiSO high security Mobile Speedbumps are reliable compact solution to provide security of your territory. It does not require any installation to the ground. High security Mobile Speedbump was tested and certified according to ASTM F2656/F2656-18a and IWA14-1:2013 standards. Key advantages of Mobile Speedbumps M30:

- full mobility of crash-rated, automatic wedge barrier:
- easy application: setting up within 10 minutes: simply by delivering to the site unloading plug in to the power;
- no civil works required: no anchors/ no bolts.

High security Mobile Speedbump has warning LED indication and warning painting. Also can be interfaced with any ACS. Ideal for organising temporary protection of driveways during public events (fairs, festivals, weekly markets, public holidays etc.).





ASTM F2656

High security road blocker

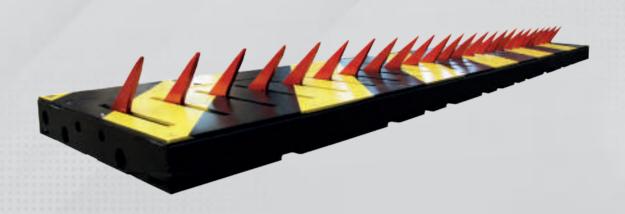
High security road blockers engineered and designed to prevent unauthorized access of vehicles to a secured area and keep the standards of antiterrorism protection. This is heavy duty equipment for projects with appropriate requirements. TiSO road blockers has successfully passed crash test and certified according to ASTM F2656-07, M50, P1 and ASTM F2656-07, M30, P1. Being developed by engineers with extensive background in appropriate field, this type of wedge barriers is featured with installation simplicity, easy service, reliability, durability, and multi functionality.

Model	RB312	RB313	RB314	RB322	RB323	RB324	RB332	RB333	RB334	
Security class	Certified ASTM F2656-07, M30, P1			Designe	Designed to keep ASTM F2656 M40 standard			Certified ASTM F2656-07, M50, P1		
Installation type				S	hallow mounte	ed				
Drive				ŀ	Hydraulic (HPU	J)				
Width, mm	2000	3000	4000	2000	3000	4000	2000	3000	4000	
Height, mm		800			1000			1200		
Impact resistance, J		656 000		1 110 000			1 843 900			
Axle load, t			1	5 (up to 50 wit	th increased fo	undation dept	h)			
Rising time, s (+/- 1s)	3	,5 (1,5 with EF	0)	3,5 (1,5 with EFO)			3,5 (1,5 with EFO)			
Lowering time, s (+/- 1s)		3,5			2			3,5		
Operating temperatures*, °C					-40/ +60					
Power supply	3 phase 400V, 50/60 Hz									
Protection level			IF	67 (for road l	blocker) IP 54	(for control bo	x)			
Materials				Structural	steel C22 (pon	der coated)				



Ultra shallow road blockers were designed to protect the perimeter of the protected area. This blocker can stop truck of 7 500 kg (7,5 t) mass driving at 48 kph (30 mph)/64 kph (40 mph)/80 kph (50 mph). This is confirmed by successfully passed tests BSI PAS 68:2013 and IWA 14-1:2013. Such a blocker fully meets the requirements for the protection of highly classified objects. In addition to anti-ramming properties, this blocker has another advantage - this is an minimal installation depth of 200 mm. The completely innovative design of this lock allows you to combine its main anti-ram function with the simplicity and speed of installation.

Model	RB312-01	RB313-01	RB314-01	RB322-01	RB323-01	RB324-01	RB332-01	RB333-01	RB334-0	
Security class	PAS68/IWA14-1 (7,5t@48kph)			PAS68/	PAS68/IWA14-1 (7,5t@64kph)			PAS68/IWA14-1 (7,5t@80kph)		
Impact resistance, J	689 000				1 139 000		1 868 000			
Installation type					hallow mounte	ed				
Drive	Hydraulic (HPU)									
Width, mm	2000	3000	4000	2000	3000	4000	2000	3000	4000	
Height, mm	800			950			950			
Installation depth, mm	200									
Axle load, t			1	5 (up to 50 wit	h increased fo	undation dept	h)			
Rising time, s (+/- 1s)				3.	.5 (1.5 with EF	0)				
Lowering time, s (+/- 1s)					3,5					
Operating temperatures*, °C					-40 / +60					
Power supply			3 phases 400	V, 50/60 Hz (s	tandard); 1 ph	ase 230 V, 50	60 Hz (option))		
Protection level	IP 67 (for road blocker); IP 54 (for control box)									
Materials				Structural	steel C22 (pow	der coated)				



Automatic Tire-killers

TiSO Tire-Killers are affordable and at the same time efficient solution for vehicle access control management. Among available configurations, we should stress out installation type options(surface /above the ground or shallow/ground level), one or two directional driveway control, and spikes of varied lengths. The diversity of options enables this traffic barriers to be widely applicable for projects at different sorts of area. The concept of built-in hydraulic unit advances equipment to be suitable for installations under severe climate conditions, as well as for projects which require large distances between PLC and blocking segment.

Model	RB373-02	RB373-03	RB373-04	RB370-02	RB370-03	RB370-04	
Installation type	Shallow mounted / Above the ground (with ramps)						
Drive	Hydraulic (HPU)						
Spikes direction		One-directional		Bi-directional			
Width, mm	2000	3000	4000	2000	3000	4000	
Height, mm	170						
Axle load, t	15						
Rising time, s (+/- 1s)	2.5 (1.5 with EFO)						
Lowering time, s (+/- 1s)	1,5						
Operating temperatures,* °C	-40 / +60						
Power supply	1 phase 230 V, 50/60 Hz						
Protection level	IP 67 (for road blocker) IP 54 (for control box)						
Material	Structural steel C22 (powder coated)						



Mechanical tyre killers is a good choice for vehicle access control projects without available power supply. TiSO offers two types of such devices: springs or lever drive. In the first case, spikes always remain raised and one direction free to pass. Dealing with lever operated tyre killers, you get three operation modes: spikes up and blocked to both directions, spikes down and blocked, spikes up and free to one direction. The range is classified according to variety of blocking widths and spikes lengths. Also, we should mention optional installation configurations: surface / above the ground or submerge / ground level.

Model	RB379-06	RB379-07	RB379-16	RB379-17			
Installation type	Abov	e the ground (with ramps)		Shallow mounted			
Drive		Mechanical Mechanical					
Spikes direction		One-directional					
Width, mm	2000	3000	2000	3000			
Height, mm		80					
Axle load, t		15 (up to 50 with increased foundation depth)					
Material		Structural steel C22 (powder coated)					

Accessories



Radio remote controller kit 433Mhz (one controller, two keyfobs)

Radio remote controller kit, makes it possible to remotely open and close the equipment like bollards, road blockers, tire killers, arm barriers.



LED traffic light (section 95mm diameter Green/Red) and sound alarm

Traffic light has two lights, facing the oncoming traffic, red on top and green below that. Can be installed with support post or wall-mounted.



One-channel induction loop (controller + 30m of cable)

Indicates the appropriate sensitivity setting the vehicle positioned on the loop.



Manual hydraulic pump (for external hydraulic station)

Manual pump use for hydraulic operation in power failure conditions.



E.F.O. (emergency fast operation)

Emergency fast operation system is intended to provide fast rising speed up to 1 sec.



High-pressure hydraulic hose

Hose that provide high-pressure supply of power fluids.



Photocells

Photocells are installed in the kit to exclude the possibility blocker blocker lifting when the vehicle is on it.



Heating device

Heating device is intended to prevent the system freezing (recommended for cold climates). Use for temperatures conditions lower than -10°C.

Reference list

TiSO company provides entrance security sollutions at wide range of sites all over the the world. More than 30 000 references in 100+ countries are equipped with pedestrian and vehicle access control systems manufactured by European brand TiSO. Some of the most significant are outlined below:

FINANCIAL INSTITUTIONS

- Bahrain World Trade Center, Bahrain
- Singapore Stock Exchange, Singapore
- Bank of Portugal, Portugal
- Islamic Bank, KSA
- **GOVERNMENTAL INSTITUTIONS**
- Abu-Dhabi Municipality, UAE
- Ministry of Defense, KSA
- Ministry of Foreign Affairs, Kuwait
- Ministry of Defense, UAE
- RAK Police, UAE
- Riyadh Municipality, KSA
- **PRODUCTION**
- Mallaghan Engineering, Northern Ireland
- GASCO, KSA
- Emirates Steel, UAE
- **AIRPORT/TRANSPORT FACILITIES**
- Lisbon International Airoport, Portugal
- Jeddah King Abdulaziz airport, KSA
- Riyadh King Khalid Airport, KSA
- Al Ula Airport, KSA
- Beirut International Airport, Lebanon
- **BUSINESS (OFFICE) CENTER**
- Badir Incubator, KSA
- DHL Office, Germany
- Arab Processing Holding, KSA
- SPORT/RECREATION
- UFC Gym, UAE
- FitForever Fitness, KSA
- Birmingham Central Park, UK
- **OTHERS**
- Expo 2020 HQ, UAE
- Royal Air forces Bases, KSA
- Alexandria Library, Egypt

- The Headquarters of BBVA, Spain
- Deutsche Bank Head Office, Romania
- Bank of America Indian HO, Mumbai, India
- Social Development Bank, KSA
- Ministry of National Development, Singapore
- NATO HQ, Kuwait
- Ministry of Foreign Affairs, Bahrain
- Ministry of Health Riyadh, KSA
- Saudi Authority of Intellectual Property, KSA
- Netherlands Embassy, Lebanon
- ALSTOM Power Plant, Estonia
- LG Factory, China
- Equate Petrochemicals, Kuwait
- ASECNA, Dakar, Senegal
- Texel Air, Bahrain
- Saudi Airlines, KSA
- Saudi Ports offices, Yanbu and Madinah, KSA
- Bahrain Airport Company
- Saipem Regional Office, Kuwait Abu Dhabi Ports, UAE
- Almas Tower Dubai, UAE
- Fitness Time, KSA
- Louvre Abu Dhabi, UAE
- Gold's Gym, UAE and Oman
- Burj Al Arab Hotel, UAE
- Border check-points between UAE and Oman
- ADNOC, UAE





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