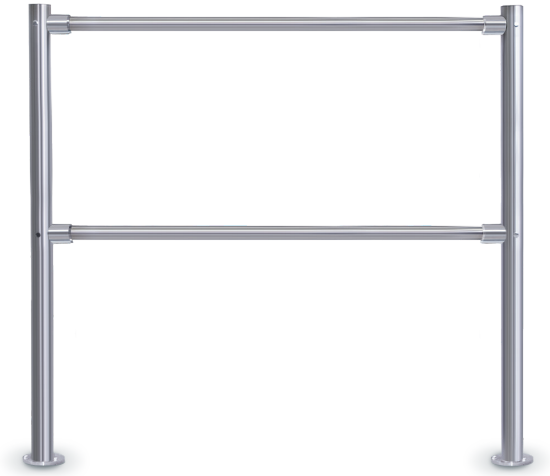
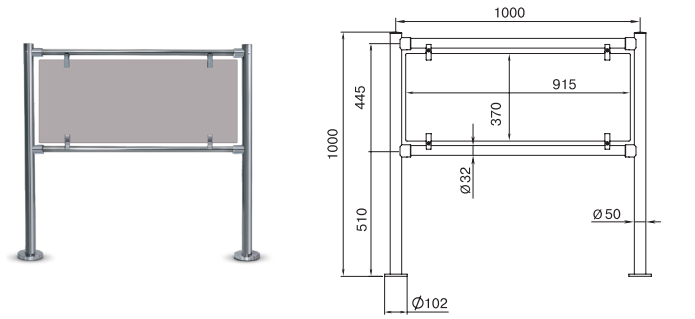
BH02 Waist-high railing systems



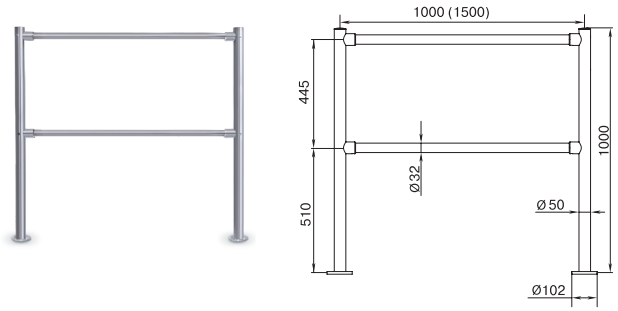
Application

BH02 waist-high railing sections are designed to arrange passage zones and decorate the entrance interiors of administrative buildings, industrial enterprises, retail outlets, banks, airports, railway stations. Railing sections are modular structure formed of posts and rails that are made of stainless steel in the same design as PERCo turnstiles and swing gates. The railing section of any configuration can be arranged by using different types of railings and its elements. Two main versions of railing systems are available:

- Fixed railing section with or without filler (see Fig.) designed for passage zone modeling and interior decoration. The filler can be made of tinted glass or polymer material
- Quick-release railing section with or without filler is designed for temporary passage zone modeling
- Rotary railing section is designed for passage zone modeling and for arranging emergency exit (see Fig.). There are three versions: a rotary section with a mechanical locking device, an automatic rotary section with an electromagnetic locking device, and a double-leaved railing section with a magnetic locking device



Fixed railing section with filler



Fixed railing section without filler

Choosing a corresponding vertical post provides straight-lined coupling of the railing sections and coupling at a 90° angle. BH02 0-01 adjustable coupling fitting is used to install railing sections at any angle (from 90° to 180°).

Coupling fittings

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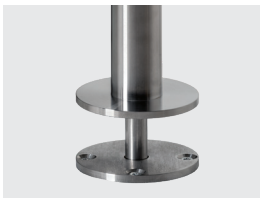
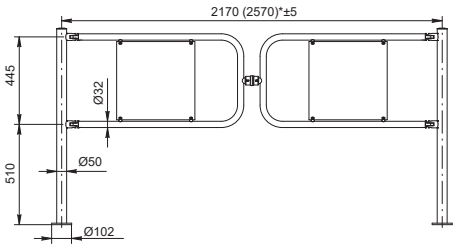
Posts of the quick-release railing section are to be installed in two special flanges fixed to the mounting surface with anchors. Posts of the quick-release railing section are to be installed in two special flanges fixed to the mounting surface with anchors. It provides the possibility to remove rapidly the section and install it back with ease. A rotary railing section with a mechanical locking device is usually used for passage zone modeling. When the section is unlocked, the swing panel can be opened in any direction using a manual unlocking device without any tools and keys. The automatic rotary railing section can be unlocked by an electrical signal (sent from an emergency button, access control system, or a switch used for de-energizing the railing section). At a power loss, the section unlocks automatically. The swing panel can be opened in any direction. The anti-panic function is incorporated into the rotary sections with electromagnetic and magnetic locking device. Applying some force in pushing the section, the swing panel opens without any special tools and keys. After emergency passage opening the section does not get deformed and can be closed again.

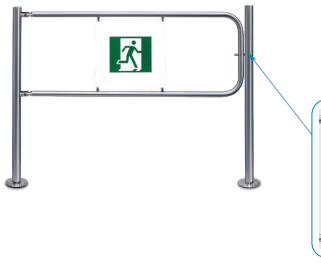


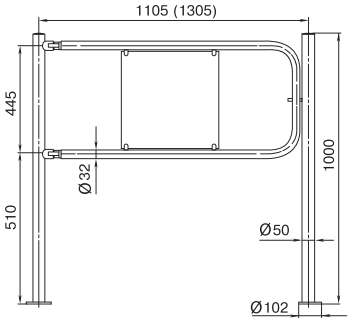
Mounting flange for the quick-release railing section

Adjustable coupling fitting for the rotary sections



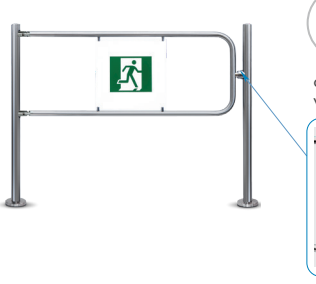
Double-leaved railing section

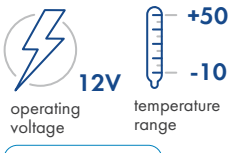


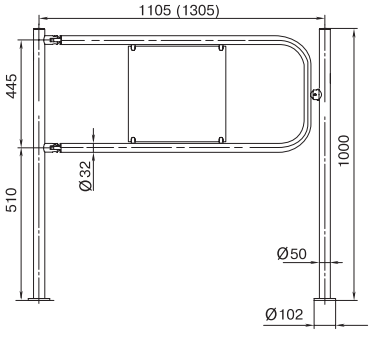


Unlocking device

Mechanical rotary railing section







Electromagnetic locking device

Automatic rotary railing section

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Design

Rotary sections are produced in two standard sizes: with 1000 and 1200 mm passageway width, for the double-leaved section – 2000 and 2400 mm respectively. The rotary section with 1200 mm-wide passageway meets the fire safety regulations regarding minimum emergency exit width.

Railing section posts and rails are made of stainless steel.

Section posts – Ø50 mm pipes, rails – Ø32 mm pipes. Filler – tinted glass or polycarbonate plastic. The range of elements for the BH02 waist-high railing section is stated in the tables below.

Vertical posts for BH02 railing section

Item	Designation (for railing sections without filler)
One-way post with 2 holes for mounting the coupling fittings	BH02 2-00
Two-way post with 4 holes for mounting the coupling fittings (angle between pairs of holes is 180°)	BH02 2-01
Two-way post with 4 holes for mounting the coupling fittings (angle between pairs of holes is 90°)	BH02 2-02
Three-way post with 6 holes for mounting the coupling fittings (angles between pairs of holes are 90° and 180°)	BH02 2-03
Posts for anti-panic rotary railing section with mechanical locking device	
Post with a hole for rotary section locking device	BH02 2-14
Post with a hole for rotary section locking device and with 2 holes for mounting the coupling fittings to the opposite swing panel	BH02 2-15
Three-way post with a hole for mounting the locking device of the rotary section and with 6 holes for mounting the coupling fittings (angles between pairs of holes are 90° and 180°)	BH02 2-16
Posts for anti-panic rotary railing section with electromagnetic locking device	
Post with electromagnetic locking device	BH02 2-04/EL
Post with electromagnetic locking device and with 2 holes for mounting the coupling fittings to the opposite swing panel	BH02 2-05/EL
Three-way post with electromagnetic locking device and with 6 holes for mounting the coupling fittings (angles between pairs of holes are 90° and 180°)	BH02 2-06/EL

Coupling fittings, rails and swing panels for the BH02 railing section

Description	Item
Standard coupling fittings with fasteners	BH02 0-10
Adjustable coupling fittings with fasteners and hinged panel	BH02 0-11
925 mm rail	BH02 1-00
1425 mm rail	BH02 1-01
Hinged panel (with locking device) for mechanical rotary section with pictogram filler; passageway width is 1000 mm	BH02 1-14
Hinged panel (with locking device) for mechanical rotary section with pictogram filler; passageway width is 1200 mm	BH02 1-15
Hinged panel for automatic rotary section with pictogram filler; passageway width is 1000 mm	BH02 1-06/EL
Hinged panel for automatic rotary section with pictogram filler; passageway width is 1200 mm	BH02 1-07/EL

Optional equipment for BH02 railing section

Description	Item
Reader bracket with mounting kit	BH02 0-03
Filling glass for the 1.0 m-long BH02 railing section	
Polymer filler for the 1.0 m-long BH02 railing section	
Clips	BH02 0-02

Operating conditions

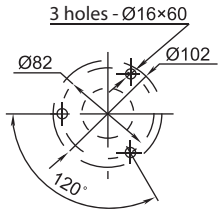
Railings, with regard to resistance to environmental exposure, comply with GOST 15150-69 category NF3.1 (operation in premises without climate control). Operation is allowed at ambient temperature from +10°C to +50°C and relative air humidity up to 75% at + 15°C.

Delivery set

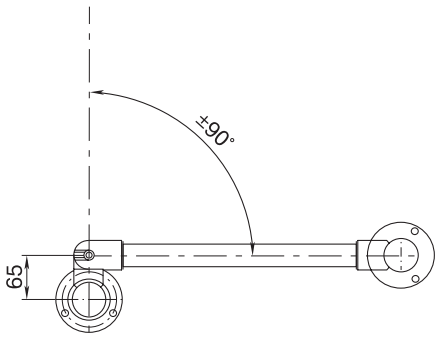
Railing section elements	as per order
Operation Manual	1 set
Certificate for the post with electromagnetic locking device (BH02 2-04/EL, BH02 2-05/EL, BH02 2-06/EL)	1
Power supply (1A PS unit) for post with electromagnetic locking device	
SORMAT PFG IH 10 anchor bolt for mounting vertical posts to the floor	3 per 1 post

Mounting

Foundation requirements: concrete (grade 400 or higher), stone or similar foundations of at least 150 mm thick. For the installation on a less steady foundation it is recommended to apply reinforcing elements (300×300×300 mm).



Hole marking



Layout of possible rotation angles of the BH02 adjustable coupling fitting

Warranty

The warranty period of the post with the electromagnetic locking device of the rotary railing section (BH02 2-04/EL, BH02 2-05/EL, BH02 2-06/EL) is 5 (five) years commencing from the date of sale unless otherwise determined in the delivery contract of the Product. In case of sale and installation of the equipment by authorized PERCo dealers and service centers, the warranty starts from the date of commissioning. Should there be no date of sale on the warranty card, the warranty period shall commence from the date of manufacture specified in the Certificate and on the Product label

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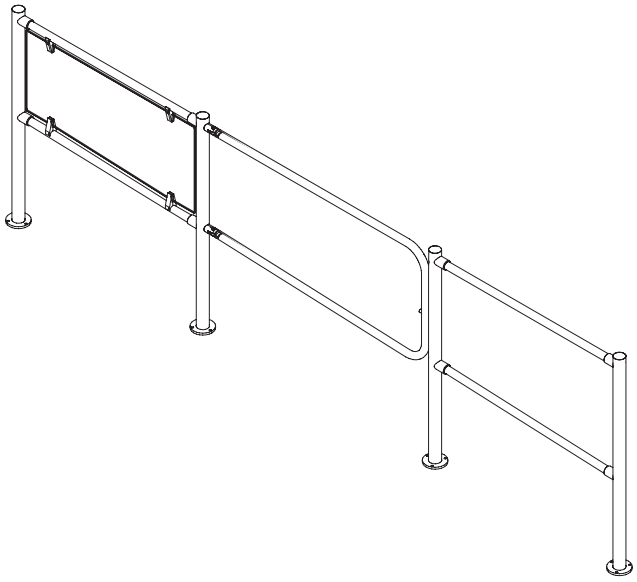
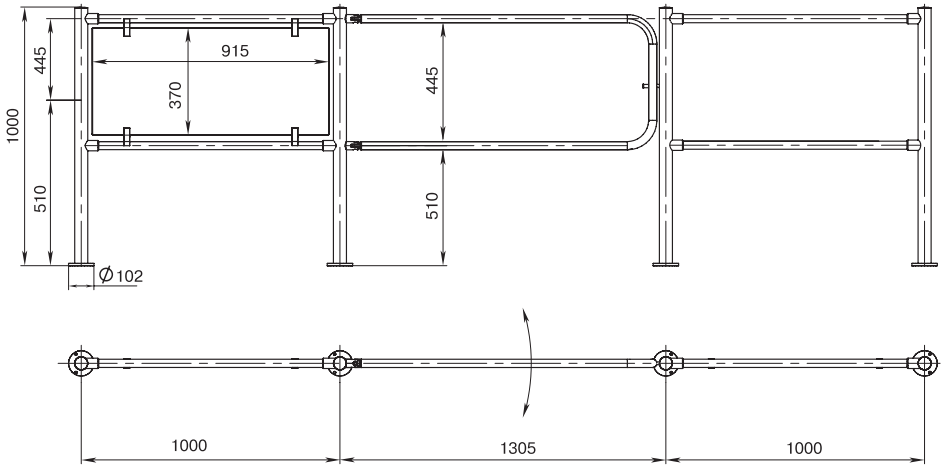
Railings assembly examples

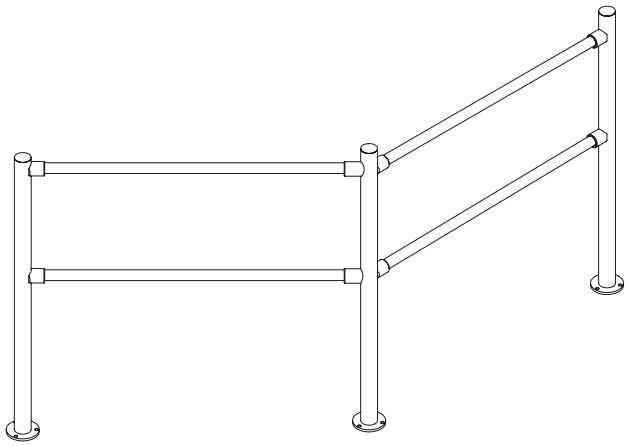
Example 1.

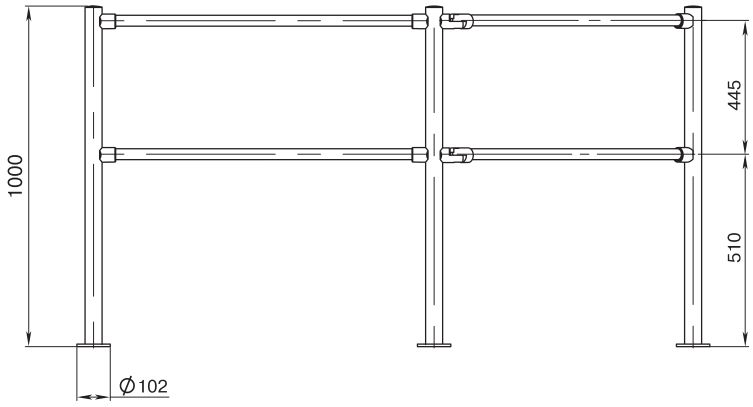


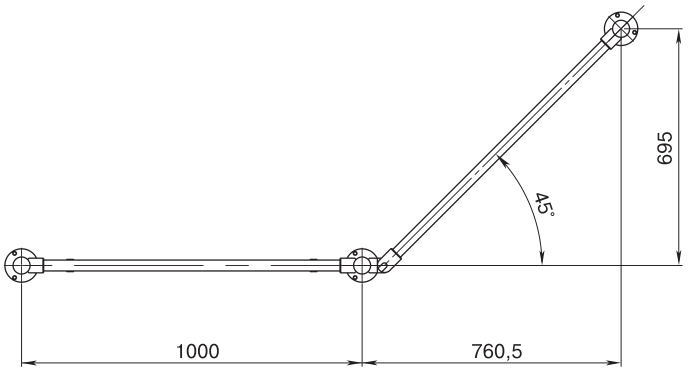


BH02 2-00	One-way post with 2 holes for mounting the coupling fittings	2
BH02 2-01	Two-way post with 4 holes for mounting the coupling fittings (angle between pairs of holes is 180°)	1
BH02 2-15	Post with a hole for rotary section locking device and with 2 holes for mounting the coupling fittings to the opposite swing panel	1
BH02 1-00	925 mm rail	4
BH02 1-17	Hinged panel (with locking device) for mechanical rotary section with pictogram filler; passageway width is 1200 mm	1
BH02 0-10	Standard coupling fittings with fasteners	8
	370x915 mm tinted filling glass for the 1.0 m-long BH02 railing section	1
BH02 0-02	Clip	4

Example 2.

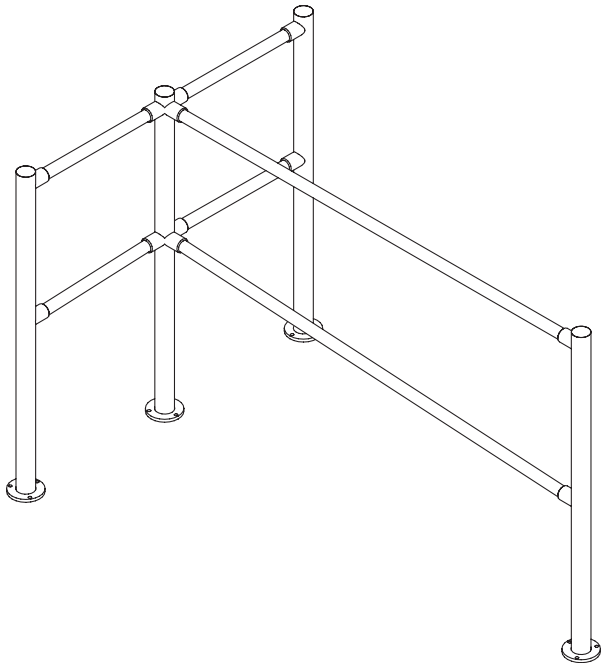


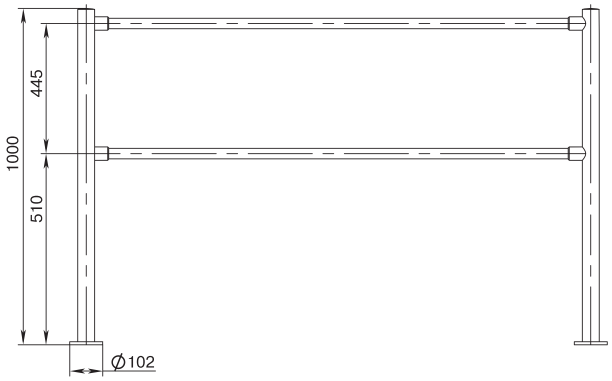


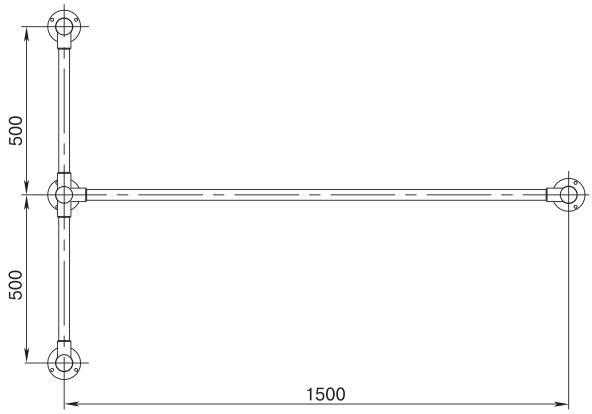


BH02 2-00	One-way post with 2 holes for mounting the coupling fittings (for railing sections without filler)	2
BH02 2-01	Two-way post with 4 holes for mounting the coupling fittings (angle between pairs of holes is 1800, for railing sections without filler)	1
BH02 1-00	915 mm rail	4
BH02 0-10	Standard coupling fittings with fasteners	6
BH02 0-11	Adjustable coupling fittings with fasteners and hinged panel	2

Example 3.

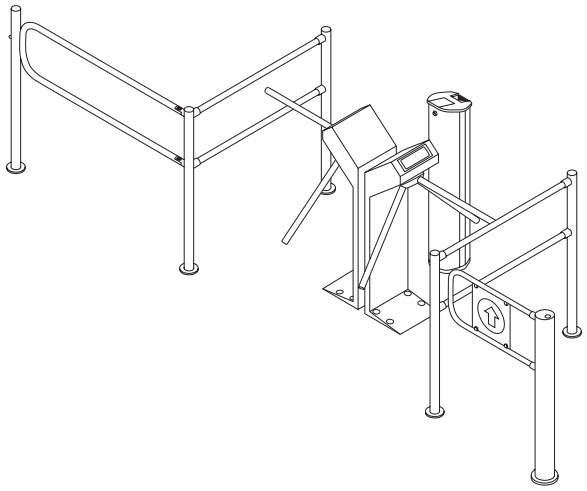




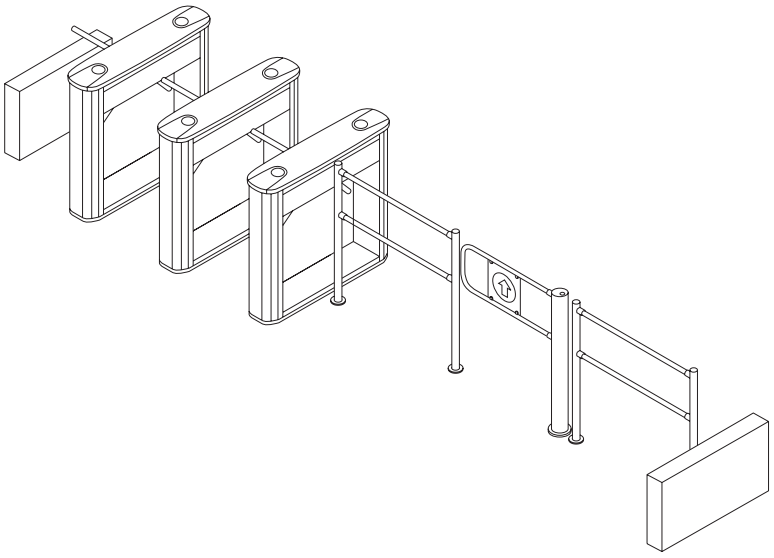


BH02 2-00	One-way post with 2 holes for mounting the coupling fittings (for railing sections without filler)	3
BH02 2-03	Three-way post with 6 holes for mounting the coupling fittings (angles between pairs of holes are 90° and for railing sections without filler)	1
BH02 1-00	925 mm rail	2
BH02 1-11	1415 mm rail	2
BH02 0-10	Standard coupling fittings with fasteners	12

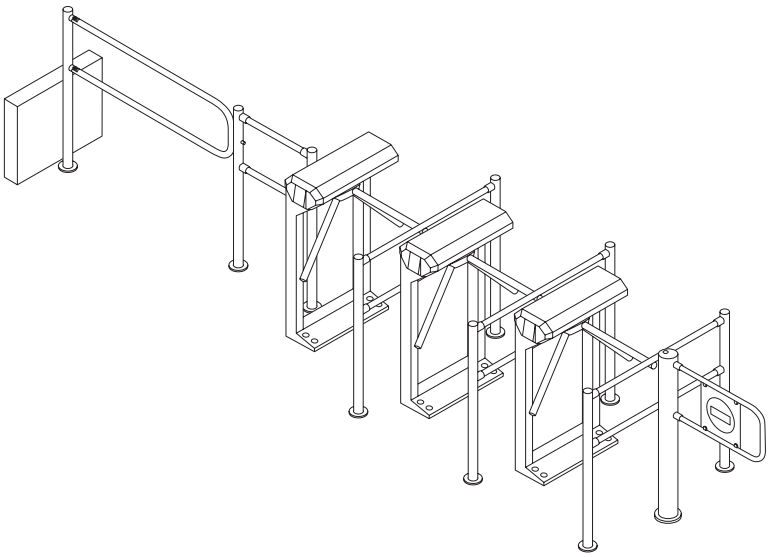
Passage zone modeling



Tripod turnstiles with standard and rotary railing sections, card capture reader, swing gate



Box tripod turnstiles with standard railing sections, swing gate



IP-Stiles with standard and rotary railing sections, swing gate

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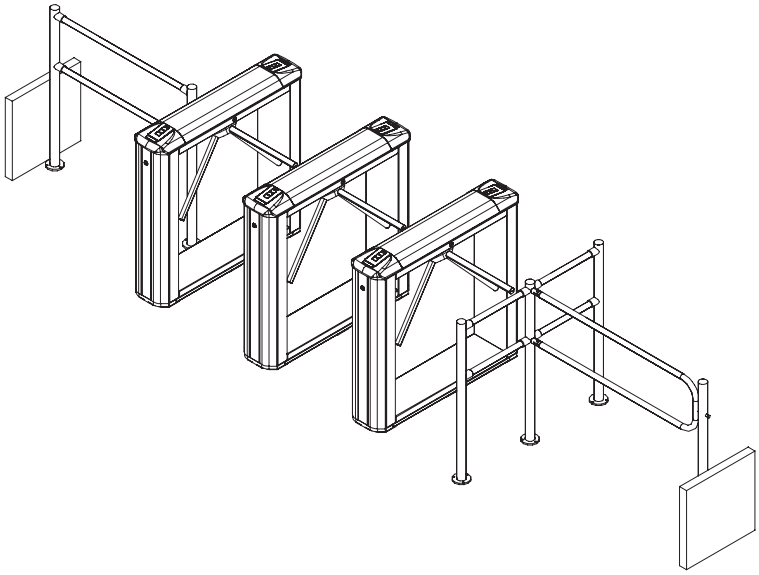
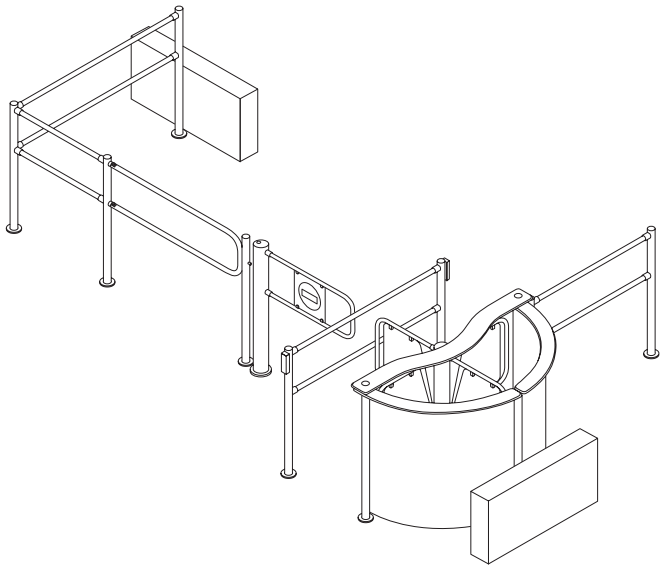
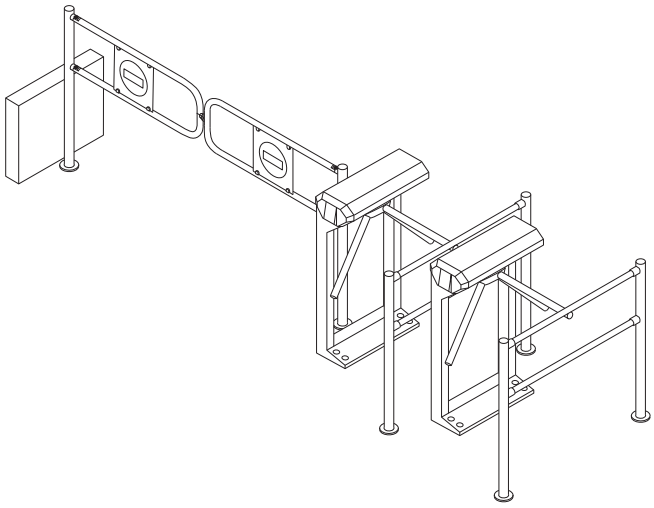


Box tripod turnstiles with built-in readers, standard and rotary railing sections



Rotor turnstile with standard and rotary railing sections, swing gate



IP-Stiles with rotary railing section