



TG-COM-146C

REVOLVING DOOR

Automated Security Revolving Door
with single passage checking system
(tailgating and piggybacking detection
systems).



SELF-MANAGED REVOLVING DOOR SINGLE PASSAGE CHECKING SYSTEM

Automated High Security Revolving Door for simultaneous bi-directional traffic, it allows for users to enter and leave the building at the same time. It controls the single passage into each turnstile segment.

SELF-MANAGED REVOLVING DOOR

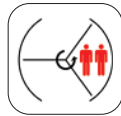
Installed on site, directly on the existing floor.



REMOVABLE
STRUCTURE



TAILGATING
(SINGLE PASSAGE
CHECKING SYSTEM)



PIGGYBACKING
DETECTION SYSTEM



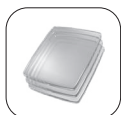
PRESENCE CHECKING
THROUGH ULTRASONIC
VOLUMETRIC SENSOR



ACCESS CONTROL
SYSTEMS INTEGRATION



FB4 BULLETPROOF RES.
STEEL STRUCTURE
(on TG-COM-146C.160.NB)



BULLETPROOF
BURGLAR
PROOF
Certified glass according to EN1063:
Turnstile glass: BR1/S and P4B
Structure glass: BR2/S and P6B
(optional: structure glass BR4/S)

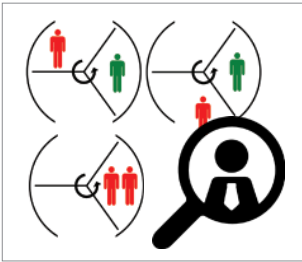


TG-COM-146C.NA/.NB Revolving Doors series, available versions:

Model	Dimensions	Passage	Base	Door	Metal Detector	Glass	Turnstile	Structure	RC4 Certification
TG-COM-146C.160.NA	Ø 1600 mm H 2325 mm Ø 5.2493' H 7.628'	W 660 mm H 2090 mm W 2.16535' H 6.857'	Without base	No	No	Int. BR1/S Est. BR2/S	3 wings	Steel	-
TG-COM-146C.160.NB								Additional FB4 panels	-
TG-COM-146C.160.NA	Ø 1800 mm H 2325 mm Ø 5.9055' H 7.628'	W 750 mm H 2090 mm W 2.46062' H 6.857'				on request: Int. BR2/S Est. BR4/S Int. and Est. BR4/NS	3 wings or 4 wings (optional)	Steel	-
TG-COM-146C.160.NB								Additional FB4 panels	-
TG-COM-146C.230.NA	Ø 2300 mm H 2325 mm Ø 7' 6,551" H 7.628'	W 1050 mm H 2090 mm W 3,4448' H 6.857'					4 wings	Steel	-
TG-COM-146C.230.NB								Additional FB4 panels	-
TG-COM-146C.160.ND	Ø 1800 x H 2325 Ø 5.9055' H 7.628'	W 750 mm H 2090 mm W 2.46062' H 6.857'				Int. and Est. BR2/S on request: Int. and Est. BR4/S Int. and Est. BR4/NS	4 wings	Reinforced sides and electric locks	YES
TG-COM-146C.160.NE								Addition of internal and external FB4 panels	
TG-COM-146C.230.ND	Ø 2300 mm H 2325 mm Ø 7' 6,551" H 7.628'	W 1050 mm H 2090 mm W 3,4448' H 6.857'					4 wings	Reinforced sides and electric locks	
TG-COM-146C.230.NE								Addition of internal and external FB4 panels	



The most harmonious access control solution for high flow prestigious places.



FLOW MANAGEMENT SYSTEM

The door system **controls the single authorized passage in each turnstile segment**. At the same time the door sensors guarantee: tailgating and piggybacking detection, blocking the unauthorized persons and any kind of multiple accesses in the same turnstile partition.



WITHOUT BASE

Removable structure, designed without base (floor). It can be directly installed on the existing floor. An elegant solution for entrances in: museums, hotels, shopping malls, airports, meeting centers, data centers, companies, industries, stadiums, etc.



FB4 REINFORCED STRUCTURE

The TG-COM-146C.160.NB doors are special versions with a reinforced structure thanks to additional bulletproof steel panels (FB4 grade according to EN 1522). All models can be equipped with 30/31mm BR4/S certified external glass according to EN 1063 (on request, optional).



ACCESS CONTROL SYSTEMS

It is an **excellent solution as access control gate** for companies, meeting centers, museums, airports, hotels, etc., also for areas with restricted/conditioned access, thanks to the integration with badge/RFid readers, fingerprint acquisition & face detection systems or any other biometric solution (optional, mounted on external side or column).

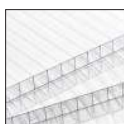


EQUIPMENT & ACCESSORIES

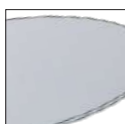
- Removable structure: installed on site, directly on the existing floor
- Person presence checking system with volumetric sensors
- Anti-tailgating system: people detection, one following the other on different segments
- Anti-piggybacking system: two people detection, even if one takes in arms the other
- Portal management unit/console with program functions and LCD display
- Traffic light panels with intercom
- Multilingual voice messages
- Interfacing to access control systems / presence detection systems (RS485)
- Integration with badge readers or fingerprints acquisition systems (optional)
- Interior lighting: lights LED strips
- Emergency system: automatic unlocking system
- Mechanical lock for additional locking during the night-times
- Anti-drilling armored defender for key cylinder protection (optional)
- Reinforced steel structure with additional FB4 panels: on Co146.NB versions
- Rain cover: honeycomb PVC cover cap panel, UV resistant

VERSIONS

Three different versions: TG-COM-146C (Ø1600 mm), TG-COM-146C.180 (Ø1800 mm), TG-COM-146C.230 (Ø2300 mm)



Honeycomb PVC cover cap panel, UV resistant.



Steel panel for cap cover (optional).



Anti-drilling armored defender for key cylinder protection (optional).

TG-COM-146C TECHNICAL FEATURES



WEIGHT: from 850 Kg to 1350 Kg ca. depending on version and accessories.



POWER SUPPLY: 100-240 V, 50-60 Hz.



OPERATING VOLTAGE: 24 V.c.c. with batteries for activity without power supply.



TRANSIT CAPACITY: at the standard speed of 4 turns per minute, the 3-wings turnstile guarantees a bidirectional flow of: 12 passages per min., while the 4-wings turnstile: 16 passages per min. (without alarms).



STRUCTURE: painted steel, supplied disassembled, to be assembled on site. The Co146.NB doors are equipped with additional bulletproof steel panels.



PAINTING: standard RAL colors with fine finish (glossy finish, stainless steel and special colors on request).



PROGRAMMABLE FUNCTIONS: emergency/block; automatic/manual transit; passage: mono/bidirectional.



EXTERNAL GLASS: side panels 53/64" 20/21mm bulletproof BR2/S and burglar proof P6B laminated glass (optional: 7/32" 30/31mm BR4/S and P8B).



INTERNAL GLASS (turnstile): laminated glass 35/64" 13/14mm BR1/S and P4A.



CONSUMPTION: Idle 50W, Turning (in motion) from 100 to 150W depending on the versions and accessories.



MOVEMENT: electromechanical drive by 24V DC motor with reversible movement of the turnstile in absence of supply voltage.



LIGHTING: interior compartment with 4 Led strips 12V-50/60Hz.



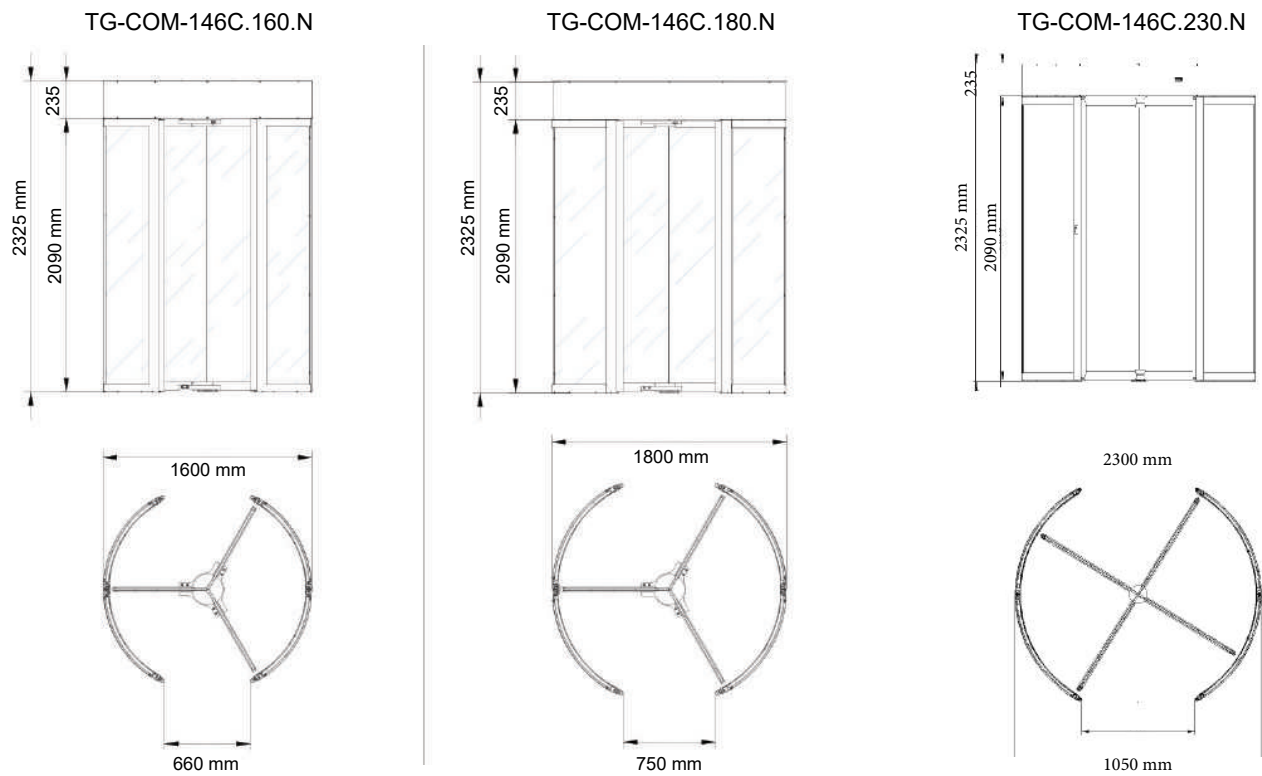
ELECTRONICS: control logic developed by Security Entrances, microprocessor control and self-diagnosis.



SAFETY / ACCIDENT PREVENTION: sensitive electrical edges certified according to EN12978 (anti-crushing)

DIMENSIONS

TG-COM-146C.N model dimensions



OPERATION MODES

	SITUATION	OPERATING MODE
	Authorized access request	The turnstile will rotate three times; if no access has been detected by the end of third rotation, the turnstile will stop in its standby position and a new access request must be made.
	Authorized access attempt during the third rotation after the access request.	The turnstile will stop and a vocal message will alert the user that access is unauthorized. The door will then begin a counter-rotation (clockwise) to allow the user to exit from the same side he entered. The door will eventually stop in its stanby position.
	Authorized access (either from the same or the opposite side) while the turnstile is already rotating.	The turnstile rotation counter will reset and a new cycle of three rotations will starts.
	Unauthorized access request.	The turnstile will not move.
	Tailgating* : unauthorized access attempt (either from the same or the opposite side) while the turnstile is already rotating.	The turnstile will stop and a vocal message will alert the user that access is unauthorized. The door will then begin a counter-rotation (clockwise) to allow the user to exit from the same side he entered. The door will eventually stop in its stanby position.
	Piggybacking* : access attempted by two or more users in the same turnstile compartment.	The turnstile will stop and a vocal message will alert the user that access is unauthorized. The door will then begin a counter-rotation (clockwise) to allow the user to exit from the same side he entered. The door will eventually stop in its stanby position.
	The user is about to be crushed due to the rotation, between turnstile edge and door frame.	The turnstile will immediately invert the direction of rotation to prevent contact and allow free movement.

Access requests can be made automatically (through presence detection sensors) or manually (through access control devices or push-button devices), depending on the customer's preference. The standard door transit program is bi-directional, meaning that the transit can be both outgoing and ingoing. The transit program can be modified at any time from the console settings. The door rotation is counterclockwise by default.

In the table is given a list of possible situations and the consequent modes of operation.

*Anti-tailgating and anti-piggybacking are optional features, which must be requested upon order.

REVOLVING DOORS COMPARISON

TG-COM-146C-147C SERIES



Model	Dimensions	Passage	Door	Metal Detector	Floor base	Turnstile	Glass	Structure	Weight	RC4 Certification
TG-COM-146C.160.NA	Ø 1600 mm H 2325 mm Ø 5.2493' H 7.628'	W 660 mm H 2090 mm W 2.1654' H 6.857'	No	No	Without base	3 wings	Int: 13/14 mm (35/64") BR1/S - P4A Ext: 20/21mm (53/64") BR2/S - P6B	Steel	1873 / 2976 lbs 850 / 1350 Kg	-
TG-COM-146C.160.NB		Additional FB4 steel panels						-		
TG-COM-146C.180.NA	Ø 1800 mm H 2325 mm Ø 5.9055' H 7.628'	W 750 mm H 2090 mm W 2.4606' H 6.857'				3 wings (4 wings optional)		Steel		-
TG-COM-146C.180.NB		Additional FB4 steel panels						-		
TG-COM-146C.230.NA	Ø 2300 mm H 2325 mm Ø 7' 6.551" H 7.628'	W 1050 mm H 2090 mm W 3.4448' H 6.857'				4 wings		Steel		-
TG-COM-146C.230.NB		Additional FB4 steel panels						-		
TG-COM-146C.180.ND	Ø 1800 mm H 2325 mm Ø 5.9055' H 7.628'	W 750 mm H 2090 mm W 2.4606' H 6.857'				4 wings	Int. and Est. BR2/S on request: Int. and Est. BR4/S Int. and Est. BR4/NS	Reinforced sides and electric locks		YES
TG-COM-146C.180.NE								Addition of internal and external FB4 panels		
TG-COM-146C.230.ND	Ø 2300 mm H 2325 mm Ø 7' 6.551" H 7.628'	W 1050 mm H 2090 mm W 3.4448' H 6.857'				4 wings	Reinforced sides and electric locks			
TG-COM-146C.230.NE							Addition of internal and external FB4 panels			
TG-COM-147C.180.SA	Ø 1800 mm H 2375 mm Ø 5.9055' H 7.792'	W 750 mm H 2090 mm W 2.4606' H 6.857'	1 door	Yes	Without base	3 wings	Int: 13/14 mm (35/64") BR1/S - P4A	Steel	1984 / 3086 lbs 900 / 1400 Kg	-
TG-COM-147C.180.SB							Ext. & Door: 20/21mm (53/64") BR2/S - P6B	Additional FB4 steel panels		

OPTIONAL: Available on request, **different kind of customization**. Security Entrances is able to respond promptly to the customer needs and develop specific tailor-made projects. Versions Ø1600 and Ø2300 are on request / project.

- 4 wings internal turnstile for Co146 Ø1800 and Ø2300
- Integration with access control systems (badge, fingerprints)
- Special colors painting /finishing
- Higher security grade glass:
 - Structure glass: 30/31mm BR4/S bulletproof certification

