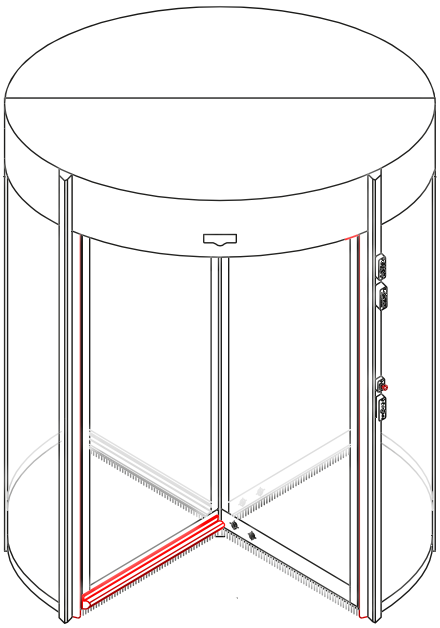
manusa
intelligent access

MGA-ST
Standard Automatic Revolving Door

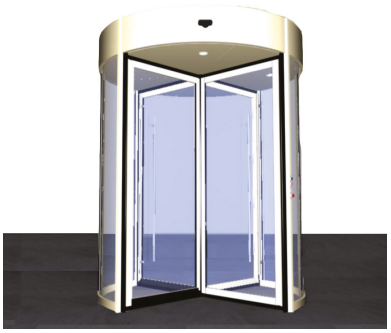


Thermal insulation, chic design, smooth entrance and versatility...if these are what you are looking for in an entrance, Manusa MGA-ST is made for you.

Manusa MGA-ST Standard Automatic Revolving door provides you with various of insulated and energy efficent entrance alternatives with its versatility. Furthermore, MGA-ST completes your building's exterior design with its stylish nature.

Manusa MGA-ST also provides you with smooth entrance and reliable performance with the best available mechanism.

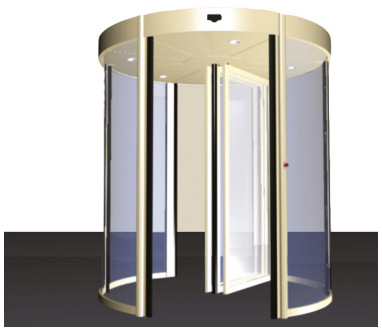
Manusa MGA-ST gives you a combination of aluminium, glass, slim profiles and insulation materials that meet energy efficiency and a smooth entrance to satisfy all your demands. The chic design meets versatility to enrich your building's exterior. Its reliable performance with thermal and noise insulation makes it even more useful.



4-Leaf-Automatic Revolving Door

3-Leaf Automatic Revolving Door

Night Shield



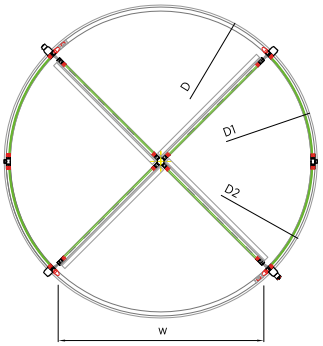
Bookfold Mechanism (break-out)

Technical Specifations

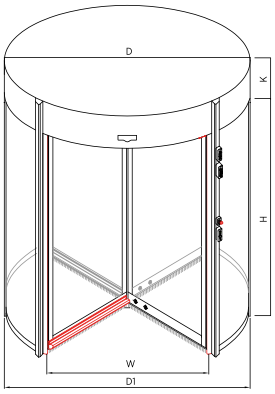
Supply	220 V CA/50-60Hz	
Motor	AC Motor	
Ambient Temperature	-20ºC a + 55ºC	
Fixed Curved Glasses	Standard 4+4 Laminated Glasses	
Side Wall Cladding		Optional
Leaf Glasses	Standard 8mm Tempered Glasses	
Door Handles	Vertical or Horizontal Stainless Steel Door Handles	
Speed Control	Standard	
Disabled Passage System	Standard	
Lighting	Energy Saving Halogen Lighting	
Locking	Electromagnetic Motor Lock	
Hand Edge Safety	Standard	
Heel Safety	Standard	
Extra Safety Package		Optional
Anodized Finish	Standard	
Electrostatic Powder Coating	Standard	
Stainless Steel Cladding		Optional
Floor Mat		Optional
Floor Ring		Optional
Waterproof Celling		Optional
Night Shield		Optional
Breakout Mechanism		Optional
Push&Go System	Standard	
Underground Mechanism		Optional
Microwave Radar	Standard	
Summer Mode	Standard	
Continuous Slow Mode	Standard	
Night Mode	Standard	
Circular Air Curtain		Optional
Espagnolette Lock		Optional

* Contact for special requests upon project basis

Dimensions



D: Outer Canopy Diameter
D1: Outer Ground Diameter
D2: Inner Diameter
W: Passage Width
H: Passage Height
K: Canopy Height



D	D1	D2	W/3	W/4	H	K
2000	1966	1906	860	1270	2100-2400	250-300
2200	2166	2106	960	1410	2100-2400	250-300
2400	2366	2306	1060	1550	2100-2400	250-300
2600	2566	2506	1160	1690	2100-2400	250-300
2800	2766	2706	1260	1830	2100-2400	250-300
3000	2966	2906	1360	1970	2100-2400	250-300
3200	3166	3106	1450	2110	2100-2400	250-300
3400	3366	3306	1560	2320	2100-2400	250-300
3600	3566	3506	1660	2460	2100-2400	250-300
3800	3766	3706	1760	2500	2100-2400	250-300

* Dimensions are in milimeters.
** Special dimensions are available upon request.
*** Dimensions are for information purposes only and are subject to change upon static requirements

Attention: We can consider a gap of 20mm width and 20mm height in the installation workplace

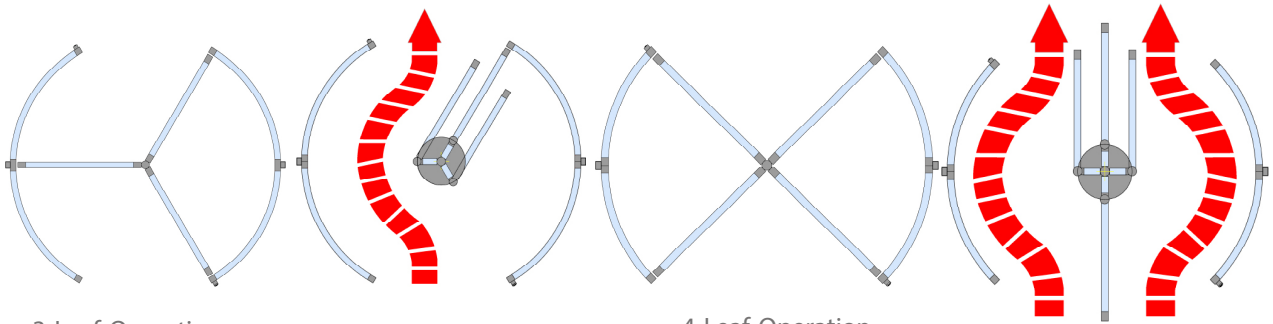
Bookfold Mechanism (break-out)

Bookfold mechanism can be applied to automatic revolving doors. This system which can be applied to both 3 or 4 leaf versions makes the leaves to book fold in case enough power is applied to the leaf.

This system, also known as break-out system, is activated by pushing the door leaves hard in case of an emergency.

The leaves folding around the central shaft, leaves a clear and empty passage to outside. Bookfold mechanism works as described below.When the mechanism is activated and the leaves bookfold around the shaft, sensors on the leaf axle sense the movement; once this movement is sensed the motor stops immediately and the rotation halts. Door continues its normal moevement when the leaves are retrieved to the original position.

This system provides rapid evacuation of the building. Besides, this can also be used in day time upon demand to enable manual usage of the door. This is a function preferred especially in shopping malls, hospitals, etc.



3-Leaf-Operation

4-Leaf-Operation

PLC CONTROL 01

Standards

DIN 18650-1:2010	BS 7036-1:1996
DIN 18650-2:2010	BS 7036-5:1996
EN ISO 13849-1:2008	EN 16005:2012
EN 60335-1:2012	

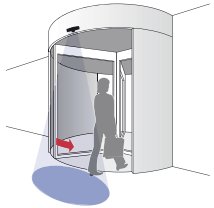
Waterproof Ceiling 05

Air Curtain 06

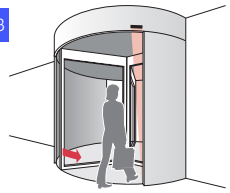
Glasses 07

Night Shield 08

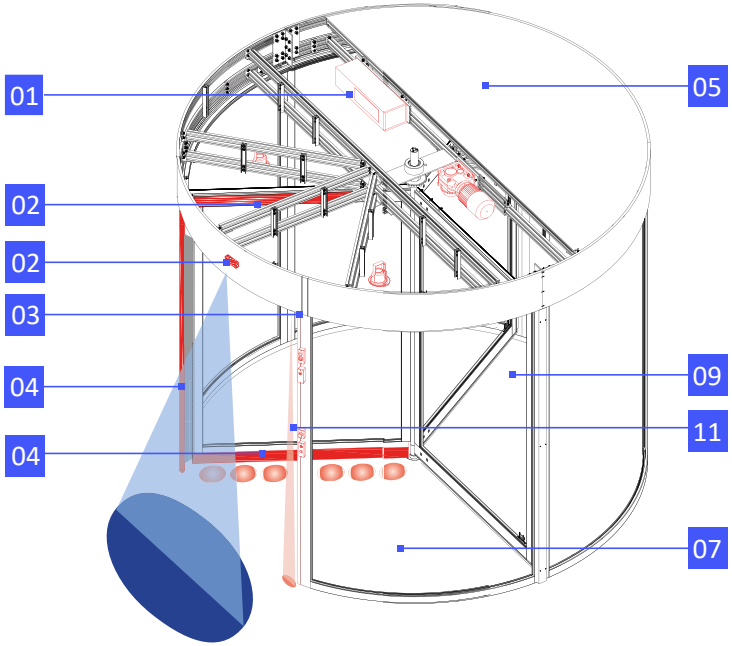
Radar / Infrared Detectors 02

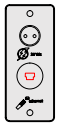


Spot Scan 03



Heel Safety 03





Ethernet Switch

Position Switch

Emergency Button

Disabled Access and Spot On/Off

Espagnolette Lock 09

Touch Panel 10

Emergency Stop 11

Typologies

Options

Touch Panel

It is a digital position switch which shows the functions of the door with various icons. As it is installed onto the door, it can be used as an external equipment.

Also, it is the digital panel system which provides you with an access to use options such as speed control, brake control and brake distance adjustments.

This device is used for Manusa automatic revolving door system as an option.

Night Shield

It is an extra safety system that is presented by Manusa revolving door system as an option. Night Shield system is installed autside the door and onto the fixed wings.
Night Shield system, having a sliding door mechanism, is used to block the enterance when it is completely closed.
It also can be strengthened with high security glasses and used for a long time.

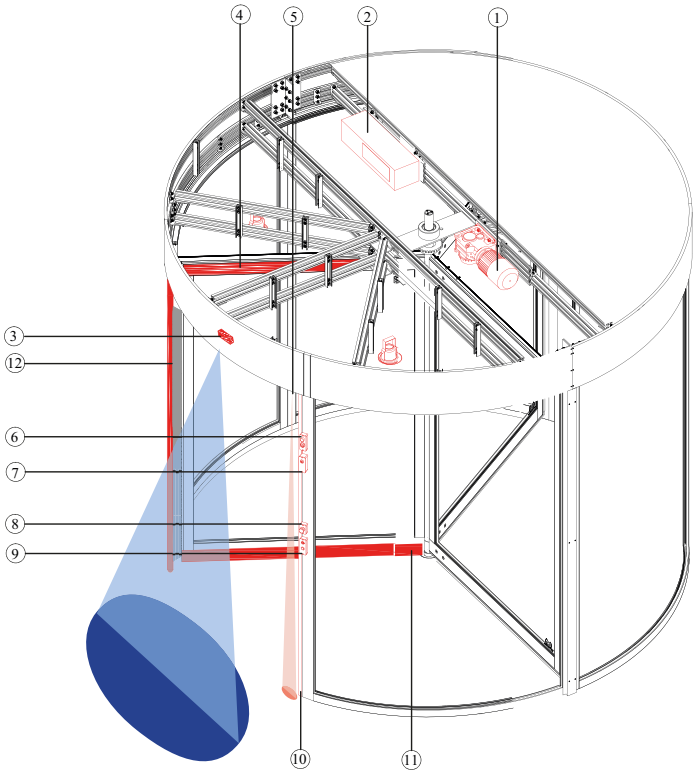
Breakout System

This system which can be applied to both 3 or 4 versions, makes the wings to bookfold when enough power is applied to the wings. It provides you with a rapid evacuation of the building.
This is a function preferred especially in shopping mall, hospitals, etc.

Air Curtain

The system prevents air circulation from autside to inside and used especially at shopping malls, business centers, hotels, restaurants, hospitals, etc.
It prevents the loss of heat and cool inside of the building.

COMPONENTS



1- Motor; asynchronous motor rated at 0,25 Kw, 1400 rpm, 50-60 Hz and equipped with helical bevel gearbox and current operated brake.

2- Control Unit; The programmable control panel is a multiprocessor digital control system utilizing time-division multiplexed operations to provide precision motor-drive, constant sensor monitoring and automated setup.

3- Radar; motion sensor device that provides signal to activate rotation of the leaves.

4- IR TopScan Sensor; infrared sensor that provides vertical safety on the direction of rotation.

5- Vertical SpotScan Sensor; safety sensor that prevents people from getting stuck between the leaves and fixed drums.

6- Digital Touch Panel; used for adjustments during installation or to change adjustments afterwards.

7- Mode Selector; used for selecting operation mode.

8- Emergency Button; a push button that stops the door immediately.

9- Light and Disabled Button; a set of switches used for lighting and slowing down the rotation speed.

10- Vertical Hand Safety; safety edge that prevents people from getting stuck in both directions when the door is rotating.

11- Hortizonal Heel Safety; safety edge that prevents people from getting stuck in heel level when the door is rotating.

12- Passive Safety Edge; passive safety edge that prevents people from getting stuck in both directions when the door is rotating.

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