

monador
Automatic Door Systems



BOON EDAM
YOUR ENTRY EXPERTS.

CRYSTAL TOURNIKET.

THE **ALL-GLASS** REVOLVING DOOR

Our Crystal Tourniket is the ultimate eye-catcher. Virtually completely transparent with only a minimal stainless steel frame and patch fittings for maximum strength, it exudes elegance and style. This revolving door is available with three or four-door wings and as an element of fun or customisation, tinted glass can be used for the door wings and curved walls.



OVERVIEW

The entrance is the first contact a visitor has with a building; it is the building's calling card and should signal to the visitor that he is in the right place; that he has almost reached his destination.

The entrance needs to fit the building's criteria on three key areas: sustainability, security and service. However the entrance requires a fourth element: great design.

SAFETY AND SECURITY ARE IMPORTANT

Security in an entry has two different aspects: the security of the building and the safety of its users. The Crystal Tourniket complies with the strictest safety regulations.

Safety Sensors in the door wings and in the frame ensure that the door responds to users and objects, minimising, or even preventing, impact with the user. The door behaviour can be customised to suit your building's requirements. Such requirements could be based on your priority for safety or throughput taking into account various user groups ranging from professionally trained users to locations where people with special needs form a large part of the user profile such as children and elderly people.

A SUSTAINABLE SOLUTION

Revolving doors are the most energy-efficient entrance solutions available today. The always open, always closed principle of a revolving door ensures that the conditioned inside air and the unconditioned outside air remain separated, preventing draught, dust and noise from coming into the building. As less energy is required to maintain the conditioned climate inside the building, revolving doors help reduce the carbon footprint of a building and save both energy and cost.

The same effect can be reached by installing a draught lobby but for draught lobbies with conventional sliding or swinging doors to be truly effective, the entrance and exit doors of the lobby can never be open at the same time. This means that users are often required to wait in the draught lobby for the next door to open, causing frustration and a feeling of being unwelcome. The advantage of revolving doors is that they save energy while facilitating a continuous flow of people.

We offer the following additional safety measures:

- Accessibility buttons
- Visual signage on the door wings and curved walls to ensure the accessibility of our doors for all user groups.
- CE Plus package

The front entrance to a public building, such as a hotel, office building, condominium, or municipal building should also include security options. Whether there is an unwanted guest immediately outside the door, or the facility manager is locking up for the night, revolving door security options allow for an added layer of protection.

We offer the following additional security measures:

- Manual door set locks
- External night-locking doors
- Security lockdown Access
- control options

ESCAPE ROUTE

The escape route is one of the main issues when considering the main entrance to a building. The Crystal Tourniket is available with an option of a collapsible door set on both the three and four-wing models.

If equipped with a collapsible door set, the Crystal Tourniket can be installed in an escape route. In case of an emergency, the door set will unlock and the door wings can be folded together to create an open passageway.

KEY FEATURES

- 3 or 4-Wing configuration
- Manual, Semi-automatic or fully automatic operation
- Large selection of dimensions
- Rigid or collapsible door set
- Low energy assisting and positioning
- Speed control
- Transparent design

PUT YOUR STAMP ON IT

The Crystal Tourniket can be finished in completely clear glass, but coloured glass is also available. With a variety of options available, we can work with you to ensure the Crystal Tourniket all-glass revolving door meets all your requirements. Choose a collapsible door set to ensure the entrance is suitable as an emergency exit* and choose three or four-door wings depending on the number of visitors you expect on a daily basis and whether they bring a briefcase or large luggage.

Our revolving doors are available in a wide variety of heights and widths with different canopy heights and heights under canopy, ensuring that many design wishes can be solved with one of our standardised products. If your design falls outside the options that are available, our sales managers and engineers will work with you to create a safe and sustainable entrance that meets all requirements.

KEY BENEFITS

- Handles low to moderate throughput
- Minimal profile size creating a weightless impression
- Automatic operation for touchless entry
- Sustainable and energy-saving
- Reduced air infiltration
- Good ROI
- Highly customisable

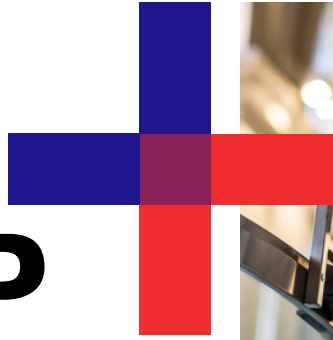
SUGGESTED SEGMENTS

- Corporate
- Governmental
- Retail
- Restaurants and hospitality
- Airports
- Hospitals
- Hotels

You can level up in any of these categories:



LEVEL UP



If our standard specifications do not quite suit your needs, we open up opportunities for you to 'Level Up' where it counts most. You can also do this according to your most motivating value driver.

The specification table shows you our standard product options, and to the right of these, you can easily see, and consider, any compatible 'Level Up' options for fine-tuning the Crystal Tourniket.



B



A

A: 4-Wing automatic model (most popular)
B: 4-Wing manual model (variation)

TECHNICAL SPECIFICATIONS



THROUGHPUT

MOST POPULAR

VARIATIONS

Throughput	2 x 38 people per minute	2 x 22 - 2 x 29 people per minute
Diameter	3000 mm	Available as standard in any diameter between 1600 - 3000 mm
Height Under Canopy	2200 mm	Available as standard between 2100 - 3000 mm
Canopy Height	18 mm glass	-
Throat Opening	2060 mm	Available as standard between 719 - 2060 mm
Number of Doors / Wings	4	3



SECURITY

MOST POPULAR

VARIATIONS

Night-locking	Manual-locking door set	External night-locking doors
Controllable Locking	-	Security lockdown Secured access out-of-hours
Protection Level	Vandal resistant safety glass (P2A) curved walls and night locking doors	-



SAFETY

MOST POPULAR

VARIATIONS

Safety Packages	CE Basic	CE Plus / DIN 18650 / UKCA / ANSI / Chinese standard
Drive Unit	Drive with speed control and block detection	BoonAssist (low-energy drive) with speed control
Escape route	-	Collapsible door set with activation button
Fire Alarm	Connection prepared in control system	-



AESTHETICS

MOST POPULAR

VARIATIONS

Finish	Powder coated aluminium Stainless steel cladding brushed	Stainless steel cladding mirror Powder coated finish
Glass	Glass decals	Tinted and low iron glass options
Canopy	Extruded solid canopy Coordinated	Glass roof 18 mm Canopy cover material options
Ceiling Door	colour, material and finish	Alternative colour, material and finish
Handles	-	Vertical Ø40 mm
Floor Mat and Trim	Floor mounted	Matwell trim Floor mat



TECHNOLOGY

MOST POPULAR

VARIATIONS

Drive Door	Drive unit in floor	Manual operated, BoonAssist (low-energy drive), Drive unit under floor
Door Control	Control panel on door	Control panel external Door connected to BMS



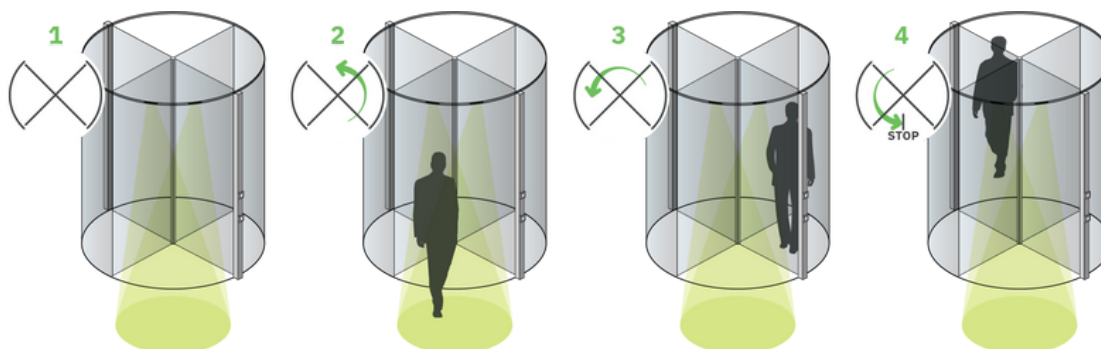
COMFORT

MOST POPULAR

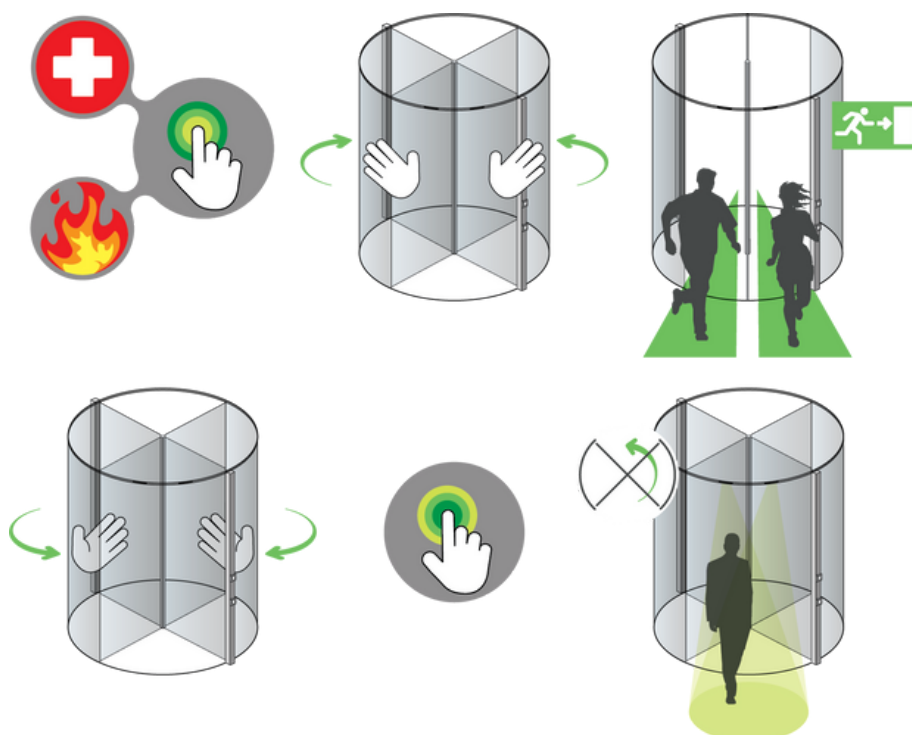
VARIATIONS

Accessibility	-	Push-button temporary low speed
Lighting and Sound	-	-
Climate Control	Genuine horse hair brushes with EPDM interlayer	Air curtain options
Activation	Direction-sensitive motion sensors Welcome mode - idle speed	Push & Go BoonAssist with assist and positioning Convenient out-of-hours entry

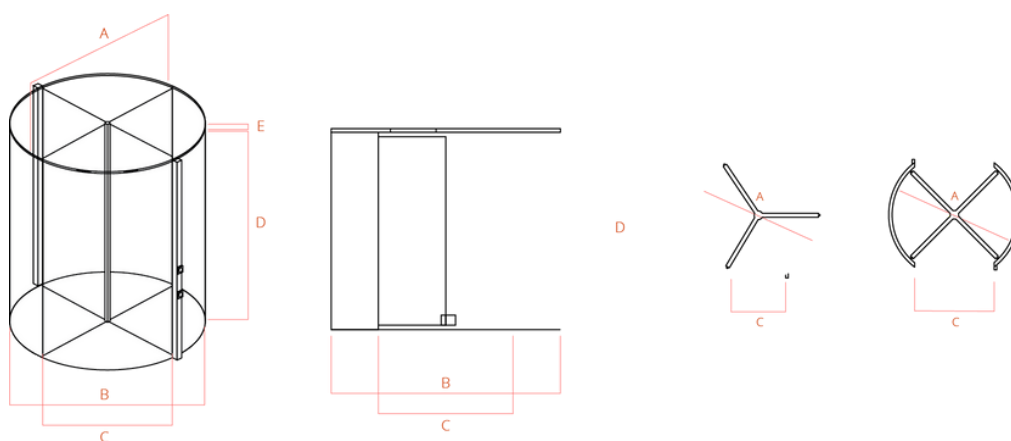
WORKING PRINCIPLE - STANDARD



WORKING PRINCIPLE - COLLAPSIBLE DOOR SET



TECHNICAL DIMENSIONS



- A. Diameter
- B. Installation Width (mm)
- C. Throat Opening (mm)
- D. Height Under Canopy (mm)
- E. Canopy Height (mm)



SERVICE AND MAINTENANCE

With hundreds of thousands of visitors passing through an entry every day, continued and reliable operation is vital. Regular service and maintenance can prevent unexpected hardware breakdowns. Monador's service and maintenance teams across the world are experienced in the effects the local conditions have on the wear and tear of your entry solutions and can offer specialised service and maintenance contracts that correspond to those conditions perfectly.

COMPLIANCE

Monador entrances are trusted solutions that allow organisations to meet compliance regulations related to restricting access to areas within a building. We take compliance and safety very seriously and ensure that our products are manufactured, installed and maintained to keep up with the strict criteria required in all our countries. We are always improving and committed to making sure our products are compliant and certified. More information can be found on our website under 'About Us'.

The Crystal Tourniket complies with the following European standards:

- Machine Directive 2006/42/EC
- EMC Directive 2014/30/EC
- RoHS Directive 2011/65/EU
- EN16005 - Safety in use for power pedestrian doors

CLIMATIZATION

The process of adjusting the temperature, humidity, cleanliness and air movement of a closed environment according to human health and comfort is called air conditioning. We know that our automatic door models, which combine advanced technology with research on human behavior and building environment, will contribute to sustainable and healthy buildings. With smart sensors, adaptive operating modes and connectivity, we can ensure that every building makes a difference and contributes to the future of green buildings.



EXPERIENCE AND KNOWLEDGE

Monador Automatic Door Systems Trade Inc. is the leading organisation that laid the foundations of the sector. With this understanding, we are proud to continue to provide the service of automatic sliding, magnetic sliding, revolving, security system doors, which we have been implementing in Turkey and the Middle East since 1988. As a result of the experience and knowledge we have gained, with our professional teams, we provide 24/7 service to our customers after sales or after assembly. Our products with superior technological equipment are provided to provide trouble-free service.

SERVICE & MAINTENANCE SUPPORT

Our periodic maintenance packages are **Platinum**, **Gold** and **Silver** presented in three categories.

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