



MANUFACTURE DESIGN SALES SERVICE

About Revolving Doors

Revolving doors offer an impressive aesthetic appearance and effectively separate indoor and outdoor conditions. Auto Ingress's superior designs provide an imposing entrance to any building, while serving as an airlock as well, to minimize a building's heating and air conditioning losses, therefore maximizing energy savings. There are numerous variations and functions according to the needs passing.

Revolving doors are categorized in two different categories according to the way they revolve: two-wing doors and three/four-wing doors. Each door consists of a glass body with an aluminum frame. The operation of the doors can be manual or automatic.

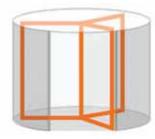


Auto Ingress Three/Four-Wing Revolving Door - KA023

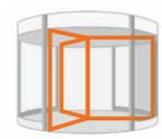
The KA023 are elegant and economical three/four-wing revolving doors. More than just granting the entry and exit of heavy passing traffic, the KA023 marks the highest standards in wind-proofing, dustproofing, warm-keeping and energy-saving. In summary, they can be regarded as the safest three/four-wing revolving doors in the world and an excellent choice by exceeding the expectations of customers and architects. KA023 comes in three operational modes: manual, automatic, and manual/automatic activation driving; and two driving models: top and underground driving.



KA023/KM023 Classic Door



KA071/KM071 All-glass Door



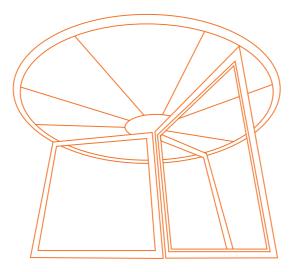
KA061/KM061 Drum-Wall-Pillar Decorated Door

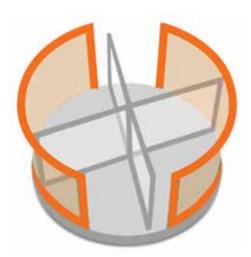


Structure

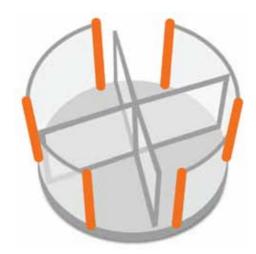
Drum Wall Load-Bearing

One of the outstanding features in the KA023 doors is Auto Ingress's exclusive drum wall loadbearing structure. This component is essential to increase structural safety and overall quality, allowing for the door to have better stability, especially when comparing the doors with other two-wing pole bearing doors.





Auto Ingress drum wall load-bearing



Other pillar-bearing

Manual Revolving Door

Manual revolving doors a reseparated in two categories: three-wing and four-wing doors, which do not require electric power and will never suffer from severe weather conditions. Auto Ingress's manual revolving doors are also equipped with an exclusive speed controlling device that allows the door to operate safely. Simultaneously, other standards such a senergy-saving and dust proofing are maintained to the best level keeping the most competitive price.

The Speed Control Function

Auto Ingress's original speed limitation patent ensures safety as it prevents the doors from rotating too fast. This mechanical system is safer and more reliable compared to other electric operated devices.

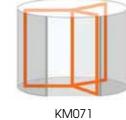




Applied for:



KM023





KM061



Automatic Revolving Door

The difference between automatic and manual revolving doors is that the automatic doors are equipped with drive units and sensor systems, which make the door operate automatically. Three/four-wing doors are cost-efficient, and are commonly used in banks, shopping centers, hotels, office buildings, amongst others.



Anti-Squeeze Sensor:

The anti-squeeze sensor will stop the door immediately when activated.



Key Switch:

Automatic doors can be operated through three different functions: night lock, go-stop and continous revolving.

(Note) The go-stop, the door will automatically revolve (through sensor activation) when the door is approached upon. This setting is ideal to reduce energy consumption.



Fire Alarm Function:

The pre-installed signal output also allows for the door to be connected to the fire system in the building. When the door receives a fire alarm signal, the revolving door will automatically switch to the emergency open mode.



Disabled Access Function:

The low-speed button is used to control the speed of the door and slow it down for the safety of younger, older and disabled passersby.



Emergency Stop Function:

The emergency stop button is able to stop movement of the automatic door under any circumstance, ensuring safety of the passersby in case of any emergency.



Mobile Phone / Internet Monitoring:

Auto Ingress's unique control software can be used to facilitate the management of the door through mobile phones or the internet. With this feature, the operator could monitor the operation status and alarms of the door.











Crystal Door

KA071 crystal door is made of a special safety glass, featuring a unique structure and an impeccable appearance. As the door is designed without a central column, clearer visibility allows it to become sparkling and more elegant. With Auto Ingress's unique music note style clamp, the KA071 door incorporates exceptional mechanics with aesthetics, increasing both safety and beauty.

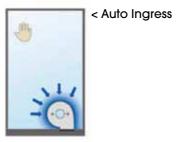
Music Note Style Clamp

The music note style clamp is one of Auto Ingress's most distinguished patents.

Before the emergence of the music note style clamping system, most of the crystal doors use the conventional square clamping system. However, the traditional square clamp is unable to decentralize the pressure effectively, weakening the glass a round the clamp, and the therefore creating safety hazard. The music note style clamp is named after its appearance, similar to one of the musical notes. The clamp's round shape makes the bearing points of the edge distribute pressure equally, keeping the door body steady and firm. This system has proven an impeccable safety record for Auto Ingress's crystal doors.









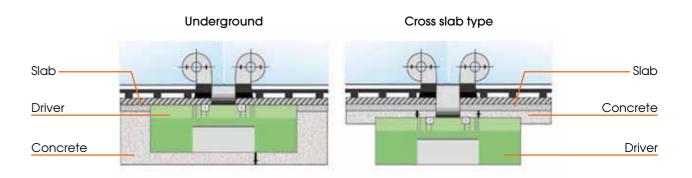


< Other



Installation

The KA071 door uses a unique bottom driving design. This allows the door body to be smooth and transparent, satisfying modern designers' preferences.



Specifications of Crystal Doors

| Model | Diameter | Outer diameter | Total height | Height | Opening | Persons/min |
|------------|----------|----------------|--------------|--------|---------|-------------|
| KA071-3-18 | 1800mm | 1852mm | 2346mm | 2300mm | 849mm | x9 |
| KA071-3-21 | 2100mm | 2152mm | 2346mm | 2300mm | 949mm | x9 |
| KA071-3-24 | 2400mm | 2452mm | 2346mm | 2300mm | 1149mm | x12 |
| KA071-3-27 | 2700mm | 2752mm | 2346mm | 2300mm | 1249mm | x18 |
| KA071-3-30 | 3000mm | 3052mm | 2346mm | 2300mm | 1455mm | x18 |
| KA071-3-32 | 3200mm | 3252mm | 2346mm | 2300mm | 1552mm | x24 |
| KA071-4-18 | 1800mm | 1852mm | 2346mm | 2300mm | 1236mm | x9 |
| KA071-4-21 | 2100mm | 2152mm | 2346mm | 2300mm | 1448mm | x9 |
| KA071-4-24 | 2400mm | 2452mm | 2346mm | 2300mm | 1660mm | x12 |
| KA071-4-27 | 2700mm | 2752mm | 2346mm | 2300mm | 1872mm | x18 |
| KA071-4-30 | 3000mm | 3052mm | 2346mm | 2300mm | 2084mm | x24 |
| KA071-4-32 | 3200mm | 3252mm | 2346mm | 2300mm | 2226mm | x24 |

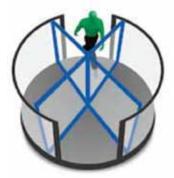
Specifications of Crystal Doors

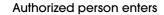
| Item Model | Materials | Central Axis | Emergence Breakout | Manual/ Automatic | Canopy Height | Diameter | Others |
|---------------|---|-------------------------------|-----------------------|----------------------|------------------|--|---|
| KA/KM071 | Narrow frame: Width 30mm thickness 26mm | N/A | N/A | N/A | 46mm | Standard inner diameter is less than 3 meters | KM071 with knob |
| KA/KM071A | Narrow frame: Width 80mm thickness 30mm | With axis and crossbeam | Optional | Optional | 75mm | Standard inner diameter can be extended to 3.2 meters to 3.6 meters | KM071A with knob; Manual/ automatic KA071A with knob |

Security Revolving Door

Following Prevention

In order to ensure that only the authorized person is granted access through the security door, the door rotation will only allow access to the individual with the access card. Any person attempting to follow the first user would be locked inside the door as the door will stop and sound a warning.







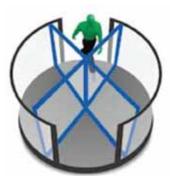
Unauthorized person follows to the next position



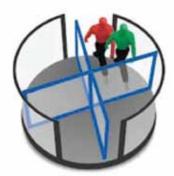
Door locks and then reverses to let unauthorized person go out

Video Analysis

Advanced video analysis software is used to ensure that only one person passes through each passage space. The alarm system of the security door would be triggered off in the case that two or more people breach access through the same passage space.



Authorized person enters



Unauthorized person follows to the position



Door stops; Alam activated





Pass Indication

The passersby can be indicated whether they are authorized to pass by a set of LED lights mounted on the curved wall of the revolving door. When the green light shows, it means that the user is granted access whereas the red light denies it.

Pass Identification

Auto Ingress products provide various of identification systems, including card reader system, finger print reader system and so on, to ensure only identified people can get free access into the buildings. Meanwhile, the systems also help to track the record easily and accurately.

Auto Ingress mainly provides two kinds of swiping-card poles as below.

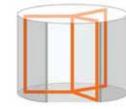




Applied for:



KM023



KM071



KM061



Advanced Safety Functions

Force-Sensitive Door Leaf

If the resistance that the revolving wings encounter exceeds a preset value (adjustable), the automatic door will stop revolving to ensure safety and to protect the door at the same time.

Torque Control Function

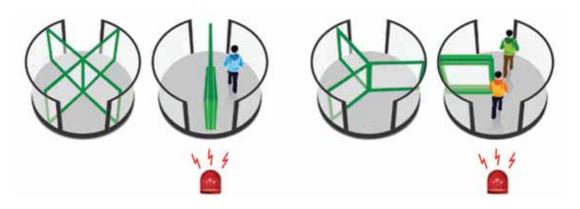
If the resistance that the revolving wings encounter exceeds a preset value (adjustable), the automatic door will stop revolving to ensure safety and to protect the door at the same time.

Horizontal Safety Light Barriers

The anti-collision light battiers installed on top of the revolving wings allow the doors to brake when any passersby or objects are detected within a defined scale.

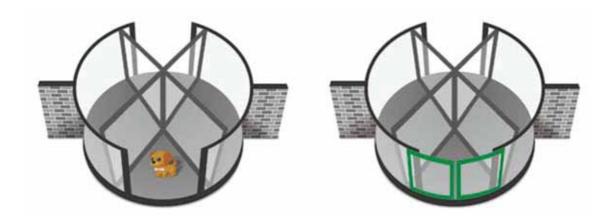


Breakout Function



Night Security Door

Depending on customer preferences, two curved doors can be added outside the drum wall to close the whole revolving door system when needed. This option provides extra protection to the building and the door.







Large Diameter Three/Four-Wing Revolving Doors

KA052

Compar ing with ordinary revolving doors, the KA052 ser ies provide a wider passage, allowing easier and safer acces s to shopping carts in supermarkets and building material supply centers. In addition to providing an elegant entry, the KA052 is a great complement to a more delightful shopping environment. If the resistance that the revolving wings encounter exceeds a preset value (adjustable), the automatic door will stop revolving to ensure safety and to protect the door at the same time.











Triangle

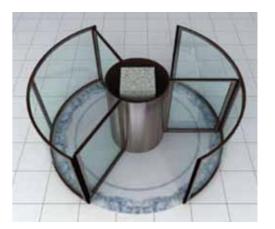


Without showcase

KA072

KA072 is the best solution for the buildings where there are columns in door areas. The ingenious design incorporates the columns inside the door frame, enhancing the overall appearance and practicality.





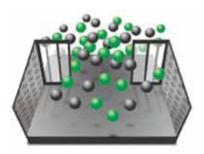




Energy-Saving and Environment-Friendly

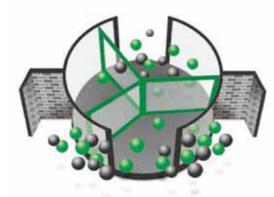
Auto Ingress's revolving doors use an unique design referred to as windmill revolving body. Its revolving direction is consistent with that of the wind. The design cuts of the exchange of indoor and outdoor air, allowing for cost and energy savings of 10% or more than other revolving doors. It is estimated that the cost of a Auto Ingress two-wing automatic revolving door is equivalent to the money it saves in three years.

The price difference of revolving doors and sliding doors are equal to the energy consumption cost of a 2-3 year timeframe.



< As for the sliding doors, the amount of air exchanged varies according to the size of the area, time of the opening of the door and the speed of airflow.

sliding doors



< The air exchange for revolving doors depend only on the inside air volume and the number of times the doors open.

revolving doors





Environment Energy Consumption (EC) = Temperature Difference Between Internal & External (TD) × Air Exchange Volume (EV) x Specific Heat Capacity of Air (C)

Series of Three/Four-Wing Revolving Doors





Series of Three/Four-Wing Revolving Doors

Specifications

KA023 Three-wing Revolving Doors Dimension

| Model | Diameter | Outer diameter | Total height | Clear Passage Height | Opening | Persons/min |
|------------|----------|----------------|--------------|-------------------------|---------|-------------|
| KA023-3-18 | 1800mm | 1888mm | 2500mm | 2200mm | 805mm | 12 |
| KA023-3-21 | 2100mm | 2188mm | 2500mm | 2200mm | 955mm | 24 |
| KA023-3-24 | 2400mm | 2488mm | 2500mm | 2200mm | 1105mm | 24 |
| KA023-3-27 | 2700mm | 2788mm | 2500mm | 2200mm | 1255mm | 24 |
| KA023-3-30 | 3000mm | 3088mm | 2500mm | 2200mm | 1405mm | 30 |
| KA023-3-32 | 3200mm | 3288mm | 2500mm | 2200mm | 1510mm | 30 |
| KA023-3-36 | 3600mm | 3688mm | 2500mm | 2200mm | 1705mm | 36 |

KA023 Four-wing Revolving Doors Dimension

| Model | Diameter | Outer diameter | Total height | Clear Passage Height | Opening | Persons/min |
|--------------|----------|----------------|--------------|-------------------------|---------|-------------|
| KA023 -4 -18 | 1800mm | 1888mm | 2500mm | 2200mm | 1177mm | 12 |
| KA023 -4 -21 | 2100mm | 2188mm | 2500mm | 2200mm | 2390mm | 24 |
| KA023 -4 -24 | 2400mm | 2488mm | 2500mm | 2200mm | 1620mm | 24 |
| KA023 -4 -27 | 2700mm | 2788mm | 2500mm | 2200mm | 1824mm | 24 |
| KA023 -4 -30 | 3000mm | 3088mm | 2500mm | 2200mm | 2026mm | 30 |
| KA023 -4 -32 | 3200mm | 3288mm | 2500mm | 2200mm | 2172mm | 30 |
| KA023 -4 -36 | 3600mm | 3688mm | 2500mm | 2200mm | 2450mm | 36 |

| Technical Parameters | |
|-----------------------------|---------------------|
| Power supply | 220 V/AC ± 10% 50Hz |
| Lighting | 12V/AC 120W/240W |
| Rated power | 600W |
| Motor power | 250W |
| Lighting power | 300W |
| Control system power | 50W |
| Low speed adjustment range | 0.5 ~2.5rpm |
| High speed adjustment range | 1~4rpm |

Configuration

| Standard | Optional |
|------------------------------|--------------------------------------|
| Aluminum alloy door leaf | Waterproof cover |
| PLC control system | Fire alarm |
| Ceiling Fire plate | Anti-collision |
| 4+4mm laminated curved glass | Anti-squeeze |
| 3+3mm laminated plane glass | Night security door |
| Mechanical lock | Remote control |
| Ceiling spot light: 12V/AC | Internet monitoring system |
| Safety bumper | Manual / Automatic activation device |
| Emergency stop button | |
| Handicap button | |

Note: Design and specifications are subject to change without notice, as they are based on product development.

Surface Treatment

Anodizing

Auto Ingress keeps the strictest and highest standards in its process. The finish of the anodized aluminum is no exception, offering more than twenty different choices of color and surface texture finishing. Other standards of this stainless material include its wear-resistance, corrosion resistance, electrostatic prevention, amongst other features to meet different architectural styles and demands.



Stainless Steel Cladding

Mirror surface



Satin pattern



Hair pattern



Carving pattern



Arenaceous pattern



Coating

Auto Ingress provides two kinds of coating: powder coating and PVDF coating.



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