ARCHITECTURAL DOOR HARDWARE
AUTOMATIC, MANUAL SLIDING & REVOLVING DOORS CATALOG

January 1, 2017 v3

West Coast Office
(800) 544-4422

East Coast Office
(800) 225-6737

intldoorclosers.com
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FEATURES AND BENEFITS

- A self-supporting structural header with full hinged covers
- A microprocessor control with self-diagnostic 13 LED light visual indicators.
- Full break-out capability
- Full vertical height interlock with double weather strip seal
- Electronic locking device

International Door Closers offers automatic and manual sliding door systems to answer any entrance requirements.

NO WHEELS NO TRACKS
LINEAR BEARING MOTION BELT DRIVE

TECHNICAL FEATURES:

- RELIABLE AND SAFE OPERATION
- EASY INSTALLATION AND SERVICE
- HIGH SPEED & SMOOTH OPERATION
- USER FRIENDLY LCD-DISPLAY FOR SETTINGS AND ADJUSTMENTS
- LOWER COST OF OWNERSHIP
- FULL VERTICAL HEIGHT INTERLOCK WITH DOUBLE WEATHER STRIP SEAL
- HI-TECH BEARING MOTION
- MEETS ANSI A156.10 GUIDELINES FOR COMMERCIAL APPLICATIONS
- EASY MANUAL SLIDE OPERATION IN CASE OF POWER FAILURE
- BRUSHLESS DC-MOTOR AND ENCLOSED HYPOID GEAR SYSTEM
- MICROPROCESSOR CONTROL WITH SELF-DIAGNOSTIC CONTROL BOARD
- ELECTRONIC LOCKING DEVICE
PRODUCT DESCRIPTION & SPECIFICATIONS

ENTRA-SLIDE SL10 4L - DETAILED SECTIONS

SYSTEM FEATURES

1) MOTOR:
- DC Low Voltage
- MADE IN USA

2) DRIVE BELT:
- WIDE Full 1” (25mm) width.

3) CONTROL:
- Microprocessor with Self-Diagnostics.
- 7 segment LED display.
- Keyed plug-in wiring.
- Adjustable latch/ back check control.

4) DOOR TRAVEL:
- Linear Motion Ball Bearing Technology.
- 1” (25mm) chrome plated hardened steel rod.  
  (Corrosion Resistant)

5) SELF-SUPPORTING STRUCTURAL HEADER WITH FULL LENGTH HINGED COVERS.

6) FULL BREAK-AWAY CAPABILITY.

7) VERTICAL FULL HEIGHT INTERLOCK:

8) ELECTRONIC LOCKING DEVICE:
- Enclosed in the control box.
- The panel(s) can break-out at any time.

NO WHEELS NO TRACKS
LINEAR BEARING MOTION - BELT DRIVE
OPTIONAL

Note:

1 - Other type of bottom guide and Threshold available.
2 - Overhead concealed or surface mount.
3 - Full breakout, fixed sidelite, or pocketed.
4 - Accommodates 1/4", 5/8" or 1" glass.
PRODUCT DESCRIPTION & SPECIFICATIONS

ENTRA-SLIDE SL10 4L - OPTIONS

WE ARE REVOLUTIONIZING ACCESS CONTROL WITH ONE SIMPLE SOLUTION

CAMERA S15

- OPTIONAL ELECTRONIC LOCKING AND CARD READER ENTRY.
  The industry’s first panel-free IP reader controller to deliver
  true Power Over Ethernet, our PowerNet Reader provides
  the freedom to secure an unlimited number of doors
  without the hassle of having to wire panels or hubs.

- OPTIONAL BATTERY BACKUP FOR UP TO ½ HOUR OF
  CONTINUOUS USE

- OPTIONAL PAINTED FINISH, POWDER COATED FINISH
  OR CLAD FINISH

- CUSTOM SIZES (CSTM) AVAILABLE, PLEASE CONSULT
  FACTORY FOR LIMITATIONS

IXIO
ACTIVATION AND SAFETY SENSOR FOR AUTOMATIC SLIDING DOORS

The IXIO combines microwave radar technology for the activation of the door with infrared technology
for pedestrian safety. The unidirectional radar provides energy savings and an infrared curtain for
sliding door safety as pedestrians pass through the threshold.

- HOLD HARMLESS INDEMNIFICATION AGREEMENT OFFERED TO
  END USERS. (WITH THE USE OF HIGH RESOLUTION CAMERA)

- DECENTRALIZED CONCEPT WITH MICRO SD CARD THUS
  ALLOWING LOWER NETWORK BANDWIDTH.

- FULL IMAGE RECORDING WITH PTZ CAPABILITIES VIA
  SOFTWARE (NO MOVING PARTS).

- FREE VIDEO MANAGEMENT SOFTWARE (MX EASY) FOR LIFE.
  (NO LICENSING FEES)

- CAMERAS HAVE MICROPHONE / SPEAKER PHONE
  CAPABILITIES BUILT IN.

- HEMISPHERIC DUAL LENS ALLOWING TO SIMULTANEOUSLY
  SECURE TWO SEPARATE ROOMS WITHOUT ANY BLIND SPOTS.

Note
Technical details and recommendations on our products are based upon experience and represent guidelines for the
user. Details in brochures and specification sheets do not guarantee any special product features, apart from those we
confirmed in individual cases. We reserve the right to make changes as the result of technical developments.
AUTOMATIC CURVED SLIDING DOOR KC1000

Curved sliding doors are becoming a more and more popular option due to its outstanding performances, such as various appearance, multi-function, energy-savings and environmentally friendly.

KC1000’s Four Types

1. Segmental Curved Sliding Door
2. Semi-Circular Curved Sliding Door
3. Circular Curved Sliding Door
4. Combined Curved Sliding Door

ATM Security Revolving Door

Based on the curved sliding door, IDC/KBB developed ATM security revolving door, to which automatic lock, intelligent open/close and panic breakout are added. Meanwhile, customization of appearance designing makes it a perfect companion to ATM.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Power Source</th>
<th>220V ±10%, 50/60Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Power</td>
<td>200W (Double Leaves), 100W (Single Leaf)</td>
</tr>
<tr>
<td>Main Fuse</td>
<td>2A</td>
</tr>
<tr>
<td>Maximum Drive Power</td>
<td>150N</td>
</tr>
<tr>
<td>Opening Speed</td>
<td>0.4~0.7m/s</td>
</tr>
<tr>
<td>Closing Speed</td>
<td>0.3~0.6m/s</td>
</tr>
<tr>
<td>Ambient Temperature</td>
<td>-15°C~50°Cs</td>
</tr>
</tbody>
</table>

Interlock

Interlock refers to the status of one door leaf being locked while the other remains open during the curved sliding door’s motion. This function is widely applied for:

Energy-savings:
While the interlock function does not allow for two door leaves to be open at the same time, it is optimal to control the indoor and outdoor air exchange. This contributes to significant energy control and savings for a building.

Access control:
The Interlock function upgrades a curved door into a security portal through a sophisticated coordination system of switches and sensors. There is a double ID authentication and video analysis systems to prevent restricted access. The interlock system comprehensively ensures safety to the building through its doors.
SECURITY CURVED PORTALS

1. Facial and weight recognition, strong anti-tailgating & ant-piggybacking function.

2. Multiple safety protection device, voice prompt to assure the pedestrian security.


4. Automation control design, contactless access without secondary pollution.

5. Remote control is available for doors open, realize pass quickly.

6. Multifunction LED monitor: WELCOME, WETHER REPORT, NOTIFICATION......

7. Save for two security guard salary, no closing all the 24 hours day.

Interlock & Anti-Tailgating & Anti-Piggybacking

Fingerprint Scanner and Infrared Switch

Facial Recognition

1. Enter-Outer door open
2. Confirming pedestrian
3. Security judgement
4. Enter-Inner door open
5. Tailgating-Inner door closed.
6. Exit-Inner door open
7. Confirming pedestrian
8. Exit-Outer door open
9. FastPass mode-Keep open
10. Emergency mode

Remark:
5. Tailgating-Inner door closed: If any person tailgating, the second door keep closed, alarm warning and voice prompt.
10. Emergency mode: When emergency or fire alarm activated, the door open automatically to 10cm, even women or children can open the door easily manually.

Model & Dimension
- Inner diameter: 1000mm
- Outer diameter: 1100mm
- Opening width: 550mm
- Passage height: 1960mm
- Canopy height: 350mm
- Total height: 2310mm
- Surface treatment: Brushed S.S cladding

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Item</th>
<th>Details</th>
<th>Item</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Door weight</td>
<td>150kg</td>
<td>Control mode</td>
<td>Micro computer controller PLC controller</td>
</tr>
<tr>
<td>Door glass weight</td>
<td>16kg</td>
<td>Motor</td>
<td>24V 55W</td>
</tr>
<tr>
<td>Open mode</td>
<td>Bi-part (Double open)</td>
<td>Door opening delay</td>
<td>1-10s (Adjustable)</td>
</tr>
<tr>
<td>Open speed</td>
<td>10-750mm/s (Adjustable)</td>
<td>Collision act</td>
<td>Rebound blocked</td>
</tr>
<tr>
<td>Closing Speed</td>
<td>100-680mm/s (Adjustable)</td>
<td>Power</td>
<td>AC220V 250V 50-60HZ</td>
</tr>
<tr>
<td>Manual force</td>
<td>≤40N</td>
<td>Temperature</td>
<td>-30°C+50°C</td>
</tr>
</tbody>
</table>

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KH1000

KH1000 is a professional hermetic sliding door developed by IDC/KBB and applies to special locations, which demand excellent airtightness, sound isolation, and radiation protection.

KH1000 uses polyurethane high-pressure forming technology, which allows the door to be lighter, while strengthening sound and heat isolation, and energy savings. It has been highly welcomed for its dustproofing, fire-proofing, air-proofing and radiation protection.

SPECIFICATIONS

| Clear Passage Width       | 23 5/8"~59 1/16" (600~1500mm) |
| Clear Passage Height      | 82.68"~102.36" (2100~2600mm)   |
| Maximum Opening Force     | 120kg                           |
| Power Supply              | 220V ±10%                      |
| Rated Power               | 100W (Single Drive)            |
| Ambient Temperature Range | -15°C~55°C                     |
| Relative Humidity         | ≤85%                            |

DOOR BODY

<table>
<thead>
<tr>
<th>Surface Material</th>
<th>STANDARD</th>
<th>DOUBLE-MOTOR DRIVEN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface Treatment</td>
<td>Coating</td>
<td>Stainless steel color</td>
</tr>
<tr>
<td></td>
<td>Stainless steel plate</td>
<td>Aluminum composite plate color</td>
</tr>
<tr>
<td></td>
<td>Other materials</td>
<td>Others</td>
</tr>
<tr>
<td>Lead Protection</td>
<td>•</td>
<td>One lead equivalent</td>
</tr>
<tr>
<td></td>
<td>°</td>
<td>Two lead equivalent</td>
</tr>
<tr>
<td></td>
<td>°</td>
<td>Four lead equivalent</td>
</tr>
<tr>
<td>Anti-strike Strip</td>
<td>•</td>
<td></td>
</tr>
<tr>
<td>Observation Window</td>
<td>•</td>
<td></td>
</tr>
</tbody>
</table>

IDC/KBB hermetic sliding doors use a specially designed track along with special rubber attached to the inside and downside of the door. In the closing process, the door compresses the rubber to the frame achieving the hermetic effect.

Note: • is available  ° is not available
Design and specifications are subject to change without notice, as they are based on product development.
<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drive Unit</td>
<td></td>
</tr>
<tr>
<td>Control Unit</td>
<td></td>
</tr>
<tr>
<td>Radar (Eagle 6)</td>
<td></td>
</tr>
<tr>
<td>PSA Control Panel</td>
<td></td>
</tr>
<tr>
<td>Supporting Beam</td>
<td></td>
</tr>
<tr>
<td>Carriage Wheel</td>
<td></td>
</tr>
<tr>
<td>Belt Clamp</td>
<td></td>
</tr>
<tr>
<td>Toothed Belt</td>
<td></td>
</tr>
<tr>
<td>Reserve Wheel</td>
<td></td>
</tr>
<tr>
<td>Nylon Track Rail</td>
<td></td>
</tr>
<tr>
<td>Double Drive</td>
<td></td>
</tr>
<tr>
<td>Electro-Mechanical Locking</td>
<td></td>
</tr>
<tr>
<td>Electric Plug Lock</td>
<td></td>
</tr>
<tr>
<td>Stopping Device</td>
<td></td>
</tr>
<tr>
<td>Radar KSS-1M</td>
<td></td>
</tr>
<tr>
<td>Key Switch</td>
<td></td>
</tr>
<tr>
<td>Safety Beam</td>
<td></td>
</tr>
<tr>
<td>Backup Battery</td>
<td></td>
</tr>
<tr>
<td>Operator Cover</td>
<td></td>
</tr>
</tbody>
</table>
Anodizing

IDC/KBB 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

IDC/KBB provides two kinds of coating: powder coating and PVDF coating.
**POWER PEDESTRIAN SWINGING DOORS**

**SW19.10 & SW10.10**

**FEATURES**

**ARCHITECTS AND BUILDING OWNERS ALL AGREE THEY NEED TO FIND WAYS TO:**

- Eliminate
- Frivolous lawsuits
- Guarantee sustainability
- Hire a dependable network of door professionals
- Uncover hidden costs
- Gather more business intelligence like store traffic or building maintenance cost
- Provide a secure and monitored facility
- Comply with the latest building codes UL / CUL, and accessibility guidelines mandated by the law

**THE ALL IN ONE ENTRANCE SOLUTION**

- Non-handed
- Self-tuning, self-learning
- Extremely silent
- Complies with ANSI A156.19 & A156.10
- UL - Certified for use as fire door operators (3 hour rating)
- Complies with all US and Canadian ADA requirements

**SW19.10**

- Low energy
- Min 5 sec from close to open
- Stay open for 5 sec
- Force: 15 lbs - 6.8 kg
- Push or pull (in door out swing)
- Activation: Knowing act
- Safety device: Optional

**SW10.10**

- Full energy
- Min 1.5 sec from close to open
- Stay open 1.5 sec
- Force: 30 lbs - 13.6 kg
- Push or pull (arm application)
- Activation: Motion detector or knowing act
- Safety device: Door-mounted sensor or overhead presence sensor

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REVOLVING DOOR

ABOUT REVOLVING DOORS

Revolving doors offer an impressive aesthetic appearance and effectively separate indoor and outdoor conditions. IDC/KBB’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.

KA022

Comparing with ordinary revolving doors, the KA022 revolving doors provide the highest safety assurance as they adopt IDC/KBB’s exclusive “drum wall load-bearing” structure. It is the firmest two-wing door across the world and has the strongest ability to evacuate. The unique design allows the doors to bear even and run steady providing superior safety. A key feature included is the panic breakout exit function for safe and efficient evacuations.

THREE IN ONE

Revolving Door:
The revolving door design effectively controls indoor and outdoor air exchange. Energy consumption is lowered due to the controlled environments in air conditioning and heat preservation. Other benefits of these doors are the wind proofing, ash proofing and noise reduction.

Sliding Door:
Sliding door Incorporated within a revolving door can provide a more efficient flow for faster and heavier pedestrian traffic.

Balanced Door:
Balanced door Is able to provide maximum opening width for peak flows, large cargo and evacuation situations.

DRUM WALL LOAD-BEARING

The KA022 doors use IDC/KBB’s exclusive “drum wall load-bearing” structure. This is the essential element to keep the structure safe and of superior quality. Compared with other two-wing doors that are pole-bearing, the KA022 provides a door with better stability.
Emergency Stop Button:
The emergency stop button is able to stop movement of the automatic door under any circumstance, ensuring safety of the passerby in case of emergency.

Key Switch:
The key switch has three modes: Revolving Door, Sliding Door and Remote Controlled Door.

LED:
The LED lighting panel displays the operating state of the door, and shows possible error codes for troubleshooting.

Disabled Push Button:
The disabled button can control the speed of the door and stow it down for the safety of younger, older and disabled passersby.

Backup Battery:
The backup battery ensures normal operations when the door is powered off.

Mobile Phone/Internet Monitoring:
IDC/KBB's unique control software can be used to facilitate the management of the door through mobile phones or the Internet. With this feature, the manager has remote operation functions and is able to monitor the operation status and alarms.

Night lock
In this position, the door stops after automatically revolving to the Night Lock position. The electromechanical lock is then triggered to lock the door, keeping the building safe.

Opening Position Stop/Start
The key switch has three modes: Revolving Door, Sliding Door and Remote Controlled Door.

Closing Position Stop/Start
In this position, the door will automatically stop in the closing position when nobody passes by. When the door is approached upon, infrared radars will be activated and the door will revolve for one circle (and continue when people walk through). This setting is ideal for difficult weather conditions and when the temperature difference is more significant.

Low/High Speed
In this position, the automatic door will revolve slowly (0.5~2.5 c/min, adjustable) when no one is passing by. When the door is approached upon, infrared radars will be activated and the door will revolve for one circle (in a higher speed, to allow a more efficient passage). This setting is ideal for difficult weather conditions and when the temperature difference is more significant.

Revolving Counter-Clockwise Manually
In this position, the infrared radars are disabled and the door stops revolving. The doors will revolve slowly in a counter clockwise direction when the reset button is pushed. In this position, the door can be pushed to operate (force: 110~150N). This setting is most suitable for cleaning and maintenance.

Revolving Clockwise Manually
In this position, the infrared radars are disabled and the door stops revolving. The doors will revolve slowly in a clockwise direction when the reset button is pushed. In this position, the door is to be pushed to operate. This setting is most suitable for cleaning and maintenance. This function also ensures that any trapped object can be safely removed.
ADVANCED SAFETY DESIGN

Safety Relay
The safety relay can monitor whether the compressible horizontal safety buffer works at any moment. An alarm will sound when the buffer breaks down.

Torque Control Function
When the distance between the moving door wing and the fixed one is less than a certain space, the driving force will be reduced. At this point, users entering the space will not be hurt.

Mechanical Axis Braking Driving
The rotary table and the motor brake at the same time, providing the passerby complete safety in case of an emergency.

Emergency switch Function
To ensure complete safety, a UPS power supply is incorporated in case of emergencies. When the passengers are trapped inside a door, this function can make the door open.

Anti-Collision Sensor
In case of a person or object obstruction, the system will stop and the door will halt. This sensor is operational at all times.

Anti-Squeeze Sensor
When the from safety switch on the door comes within 27 9/16” (700mm) of the outer safety rubber (distance can be adjusted), the sensor function becomes active. If there are any people or object obstructions within the limit range at this time, the system will stop and the doors will halt.

Radar
When detecting moving objects, sensor will be activated and the door starts to operate.

Vertical Safety Switch
When detecting moving objects, sensor will be activated and door starts to operate.

Sliding Door Anti-Squeeze Sensor (Ensure the safety of passengers when the sliding door operates)
When operating the sliding door, if the sensor is activated, the sliding doors will automatically reverse direction, avoiding squeezing the pedestrian.

Photo Cell
Six total. If a pedestrian is sensed, the doors will immediately reduce speed, brake and finally stop.

Foot Sensor (optional)
Installed below the compressible horizontal safety buffer, this sensor helps protect pedestrian.
ENERGY-SAVING AND ENVIRONMENT-FRIENDLY

IDC/KBB’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 off 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 IDC/KBB two-wing automatic revolving door is equivalent to the money it saves in three years.

Through simple calculation you will find the price difference of revolving doors and sliding doors is equal to the energy consumption cost saving of 2-3 years by using revolving door instead of sliding door.

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.

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

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

KA022
Features the operations of three in one

KA022-2W
Features two-wing revolving doors with the function swing doors

KA042
Features two-wing doors without showcases

KA062
Features frame decorated with column of different shapes

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14
# TWO-WING REVOLVING DOOR

## TWO-WING REVOLVING DOORS DIMENSION

<table>
<thead>
<tr>
<th>Names</th>
<th>KA022-2364</th>
<th>KA022-2424</th>
<th>KA022-2484</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inner Diameter</td>
<td>141.73&quot; (3600mm)</td>
<td>165.35&quot; (4200mm)</td>
<td>188.98&quot; (4800mm)</td>
</tr>
<tr>
<td>Outer Diameter</td>
<td>145.20&quot; (3688mm)</td>
<td>168.82&quot; (4288mm)</td>
<td>192.44&quot; (4888mm)</td>
</tr>
<tr>
<td>Total Height</td>
<td>103 15/16&quot; (2640mm)</td>
<td>103 15/16&quot; (2640mm)</td>
<td>103 15/16&quot; (2640mm)</td>
</tr>
<tr>
<td>Clear Passage Height</td>
<td>90.55&quot; (2300mm)</td>
<td>90.55&quot; (2300mm)</td>
<td>90.55&quot; (2300mm)</td>
</tr>
<tr>
<td>Opening Width</td>
<td>70.87&quot; (1800mm)</td>
<td>82.68&quot; (2100mm)</td>
<td>94.49&quot; (2400mm)</td>
</tr>
<tr>
<td>Opening Width of Sliding Door</td>
<td>43 5/16&quot; (1100mm)</td>
<td>55 1/8&quot; (1400mm)</td>
<td>66.93&quot; (1700mm)</td>
</tr>
<tr>
<td>Emergency Escape Passage Width</td>
<td>70.87&quot; (1800mm)</td>
<td>82.68&quot; (2100mm)</td>
<td>94.49&quot; (2400mm)</td>
</tr>
<tr>
<td>Canopy Height</td>
<td>13.39&quot; (340mm)</td>
<td>13.39&quot; (340mm)</td>
<td>13.39&quot; (340mm)</td>
</tr>
<tr>
<td>Persons/Min</td>
<td>48</td>
<td>64mm</td>
<td>80mm</td>
</tr>
</tbody>
</table>

## TECHNICAL PARAMETERS

<table>
<thead>
<tr>
<th>Power supply</th>
<th>220 V/AC ± 10% 50Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revolving door motor power consumption</td>
<td>250 W/ACx2=500W/AC</td>
</tr>
<tr>
<td>Lighting</td>
<td>12V/AC 420W</td>
</tr>
<tr>
<td>Lighting power</td>
<td>12V/AC 600W</td>
</tr>
<tr>
<td>High speed adjustment range</td>
<td>1–4r/m</td>
</tr>
<tr>
<td>Low speed adjustment range</td>
<td>0.5–2.5r/m</td>
</tr>
<tr>
<td>Ambient temperature range</td>
<td>-15°C–50°C</td>
</tr>
</tbody>
</table>

## CONFIGURATION

<table>
<thead>
<tr>
<th>Standard</th>
<th>Optional</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curved glass: 4+4mm/ 5+5mm laminated glass/</td>
<td>Surface finish: anodizing, stainless steel</td>
</tr>
<tr>
<td>Laminated safety glass/ Aluminum frame</td>
<td>cladding, powder coating</td>
</tr>
<tr>
<td>Aluminum ceiling/ Control unit</td>
<td>waterproof cover dust cover</td>
</tr>
<tr>
<td>Digital display screen/ Emergency stop button/</td>
<td>Mobile phone monitoring system</td>
</tr>
<tr>
<td>Drive unit</td>
<td>Fixed door wing safety switch</td>
</tr>
<tr>
<td>Ceiling spot light: 12V/AC/</td>
<td>Safety relay/ Electromagnetism brake</td>
</tr>
<tr>
<td>Backup battery/ Radar</td>
<td>LED ceiling spot light/ Stainless steel</td>
</tr>
</tbody>
</table>

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

Revolving doors offer an impressive aesthetic appearance and effectively separate indoor and outdoor conditions. IDC/KBB’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.

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.

DRUM WALL LOAD-BEARING

One of the outstanding features in the KA023 doors is IDC/KBB’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.

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MANUAL REVOLVING DOOR

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

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.

The Speed Control Function

IDC/KBB’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.

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 continuous 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:
IDC/KBB’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.
KA071 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 IDC/KBB’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 IDC/KBB’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 around the clamp, and 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 IDC/KBB’s crystal doors.
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**

<table>
<thead>
<tr>
<th>Model</th>
<th>Diameter</th>
<th>Outer diameter</th>
<th>Total height</th>
<th>Height</th>
<th>Opening</th>
<th>Persons/min</th>
</tr>
</thead>
<tbody>
<tr>
<td>KA071-3-18</td>
<td>70.87”</td>
<td>72.91”</td>
<td>92.36</td>
<td>90.55</td>
<td>33.43” (849mm)</td>
<td>x9</td>
</tr>
<tr>
<td>KA071-3-21</td>
<td>82.68”</td>
<td>84.72”</td>
<td>92.36</td>
<td>90.55</td>
<td>37.36” (949mm)</td>
<td>x9</td>
</tr>
<tr>
<td>KA071-3-24</td>
<td>94.49”</td>
<td>96.54”</td>
<td>92.36</td>
<td>90.55</td>
<td>45.24” (1149mm)</td>
<td>x12</td>
</tr>
<tr>
<td>KA071-3-27</td>
<td>106.30”</td>
<td>108.35”</td>
<td>92.36</td>
<td>90.55</td>
<td>49.17” (1249mm)</td>
<td>x18</td>
</tr>
<tr>
<td>KA071-3-30</td>
<td>118.11”</td>
<td>120.16”</td>
<td>92.36</td>
<td>90.55</td>
<td>57.28” (1455mm)</td>
<td>x18</td>
</tr>
<tr>
<td>KA071-3-32</td>
<td>125.98”</td>
<td>128”</td>
<td>92.36</td>
<td>90.55</td>
<td>61.10” (1552mm)</td>
<td>x24</td>
</tr>
<tr>
<td>KA071-4-18</td>
<td>70.87”</td>
<td>72.91”</td>
<td>92.36</td>
<td>90.55</td>
<td>48.66” (1236mm)</td>
<td>x9</td>
</tr>
<tr>
<td>KA071-4-21</td>
<td>82.68”</td>
<td>84.72”</td>
<td>92.36</td>
<td>90.55</td>
<td>57” (1448mm)</td>
<td>x9</td>
</tr>
<tr>
<td>KA071-4-24</td>
<td>94.49”</td>
<td>96.54”</td>
<td>92.36</td>
<td>90.55</td>
<td>65.35” (1660mm)</td>
<td>x12</td>
</tr>
<tr>
<td>KA071-4-27</td>
<td>106.30”</td>
<td>108.35”</td>
<td>92.36</td>
<td>90.55</td>
<td>73.70” (1872mm)</td>
<td>x18</td>
</tr>
<tr>
<td>KA071-4-30</td>
<td>118.11”</td>
<td>120.16”</td>
<td>92.36</td>
<td>90.55</td>
<td>82” (2084mm)</td>
<td>x24</td>
</tr>
<tr>
<td>KA071-4-32</td>
<td>125.98”</td>
<td>128”</td>
<td>92.36</td>
<td>90.55</td>
<td>87.64” (2226mm)</td>
<td>x24</td>
</tr>
</tbody>
</table>

**THE DIFFERENCES BETWEEN 071 AND 071A**

<table>
<thead>
<tr>
<th>Model / Item</th>
<th>Materials</th>
<th>Central Axis</th>
<th>Emergence Breakout</th>
<th>Manual / Automatic</th>
<th>Canopy Height</th>
<th>Diameter</th>
<th>Others</th>
</tr>
</thead>
<tbody>
<tr>
<td>KA / KM071</td>
<td>Narrow frame: Width 30mm Thickness 26mm</td>
<td>N / A</td>
<td>N / A</td>
<td>N / A</td>
<td>46mm</td>
<td>Standard inner diameter is less than 3 meters</td>
<td>KM071 with knob</td>
</tr>
<tr>
<td>KA / KM071A</td>
<td>Narrow frame: Width 80mm Thickness 30mm With axis and crossbeam</td>
<td>Optional</td>
<td>Optional</td>
<td>70mm</td>
<td>Standard inner diameter can be extended to 3.2 meters to 3.6 meters</td>
<td>KM071A with knob; Manual/automatic KA071A with knob</td>
<td></td>
</tr>
</tbody>
</table>
SECURITY & ADVANCED SAFETY FUNCTIONS

IDC/KBB's three/four-wing revolving doors can be equipped with a security system for access control. Access could only be granted to those with authorized cards.

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.

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.

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
IDC/KBB products provide various 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.

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
When the gap to the closing position is less than a certain distance, the driving force of the driving system will be reduced. So even if a passerby tries to rush in, he will not be injured.

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.

IDC/KBB mainly provides two kinds of swiping-card poles.

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.

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KA052

Comparing with ordinary revolving doors, the KA052 series provide a wider passage, allowing easier and safer access 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.

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

IDC/KBB’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 IDC/KBB 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.

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

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

### REVOLVING DOOR

AUTOMATIC LARGE DIAMETER THREE / FOUR-WING

#### KA023 THREE-WING REVOLVING DOORS DIMENSION

<table>
<thead>
<tr>
<th>Model</th>
<th>Diameter</th>
<th>Outer diameter</th>
<th>Total height</th>
<th>Clear Passage Height</th>
<th>Opening</th>
<th>Persons/min</th>
</tr>
</thead>
<tbody>
<tr>
<td>KA071-3-18</td>
<td>70.87” (1800mm)</td>
<td>74.33” (1888mm)</td>
<td>98.43” (2500mm)</td>
<td>86.61” (2200mm)</td>
<td>31.69” (805mm)</td>
<td>12</td>
</tr>
<tr>
<td>KA071-3-21</td>
<td>82.68” (2100mm)</td>
<td>86.14” (2188mm)</td>
<td>98.43” (2500mm)</td>
<td>86.61” (2200mm)</td>
<td>37.60” (955mm)</td>
<td>24</td>
</tr>
<tr>
<td>KA071-3-24</td>
<td>94.49” (2400mm)</td>
<td>97.95” (2488mm)</td>
<td>98.43” (2500mm)</td>
<td>86.61” (2200mm)</td>
<td>43 1/2” (1105mm)</td>
<td>24</td>
</tr>
<tr>
<td>KA071-3-27</td>
<td>106.30” (2700mm)</td>
<td>109.76” (2788mm)</td>
<td>98.43” (2500mm)</td>
<td>86.61” (2200mm)</td>
<td>48.98” (1255mm)</td>
<td>24</td>
</tr>
<tr>
<td>KA071-3-30</td>
<td>118.11” (3000mm)</td>
<td>212.57” (3088mm)</td>
<td>98.43” (2500mm)</td>
<td>86.61” (2200mm)</td>
<td>55 5/16” (1405mm)</td>
<td>30</td>
</tr>
<tr>
<td>KA071-3-32</td>
<td>125.98” (3200mm)</td>
<td>129.45” (3288mm)</td>
<td>98.43” (2500mm)</td>
<td>86.61” (2200mm)</td>
<td>59.45” (1510mm)</td>
<td>30</td>
</tr>
<tr>
<td>KA023-3-36</td>
<td>141.73” (3600mm)</td>
<td>145.20” (3688mm)</td>
<td>98.43” (2500mm)</td>
<td>86.61” (2200mm)</td>
<td>67 1/8” (1705mm)</td>
<td>36</td>
</tr>
</tbody>
</table>

#### KA023 FOUR-WING REVOLVING DOORS DIMENSION

<table>
<thead>
<tr>
<th>Model</th>
<th>Diameter</th>
<th>Outer diameter</th>
<th>Total height</th>
<th>Clear Passage Height</th>
<th>Opening</th>
<th>Persons/min</th>
</tr>
</thead>
<tbody>
<tr>
<td>KA071-4-18</td>
<td>70.87” (1800mm)</td>
<td>74.33” (1888mm)</td>
<td>98.43” (2500mm)</td>
<td>86.61” (2200mm)</td>
<td>46.34” (1177mm)</td>
<td>12</td>
</tr>
<tr>
<td>KA071-4-21</td>
<td>82.68” (2100mm)</td>
<td>141.73” (2188mm)</td>
<td>98.43” (2500mm)</td>
<td>86.61” (2200mm)</td>
<td>94.09” (2390mm)</td>
<td>24</td>
</tr>
<tr>
<td>KA071-4-24</td>
<td>94.49” (2400mm)</td>
<td>97.95” (2488mm)</td>
<td>98.43” (2500mm)</td>
<td>86.61” (2200mm)</td>
<td>63.78” (1620mm)</td>
<td>24</td>
</tr>
<tr>
<td>KA071-4-27</td>
<td>106.30” (2700mm)</td>
<td>109.76” (2788mm)</td>
<td>98.43” (2500mm)</td>
<td>86.61” (2200mm)</td>
<td>71.81” (1824mm)</td>
<td>24</td>
</tr>
<tr>
<td>KA071-4-30</td>
<td>118.11” (3000mm)</td>
<td>121.57” (3088mm)</td>
<td>98.43” (2500mm)</td>
<td>86.61” (2200mm)</td>
<td>79.76” (2026mm)</td>
<td>30</td>
</tr>
<tr>
<td>KA071-4-32</td>
<td>125.98” (3200mm)</td>
<td>129.45” (3288mm)</td>
<td>98.43” (2500mm)</td>
<td>86.61” (2200mm)</td>
<td>85.51” (2172mm)</td>
<td>30</td>
</tr>
<tr>
<td>KA023-4-36</td>
<td>141.73” (3600mm)</td>
<td>145.20” (3688mm)</td>
<td>98.43” (2500mm)</td>
<td>86.61” (2200mm)</td>
<td>96.46” (2450mm)</td>
<td>36</td>
</tr>
</tbody>
</table>

### TECHNICAL PARAMETERS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply</td>
<td>220 V/AC ± 10% 50Hz</td>
</tr>
<tr>
<td>Lighting</td>
<td>12V/AC 120W/240W</td>
</tr>
<tr>
<td>Rated power</td>
<td>600W</td>
</tr>
<tr>
<td>Motor power</td>
<td>250W</td>
</tr>
<tr>
<td>Lighting power</td>
<td>300W</td>
</tr>
<tr>
<td>Control system power</td>
<td>50W</td>
</tr>
<tr>
<td>Low speed adjustment range</td>
<td>0.5 ~ 2.5rpm</td>
</tr>
<tr>
<td>High speed adjustment range</td>
<td>1 ~ 4rpm</td>
</tr>
</tbody>
</table>

### CONFIGURATION

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

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

Anodizing
IDC/KBB 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
IDC/KBB provides two kinds of coating: electrostatic coating and coated by fluorin and carbon.
ATM SECURITY DOORS

KC3000 SPECIFICATIONS & TECHNICAL PARAMETERS

KC3000

Based on the curved sliding door, IDC/KBB developed ATM security revolving door, to which automatic lock, intelligent open/close and panic breakout are added. Meanwhile, customization of appearance designing makes it a perfect companion to ATM.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Measurement</th>
</tr>
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<tbody>
<tr>
<td>Total height</td>
<td>2330mm</td>
</tr>
<tr>
<td>Opening width</td>
<td>580mm</td>
</tr>
<tr>
<td>Passage height</td>
<td>2050mm</td>
</tr>
<tr>
<td>Canopy height</td>
<td>230mm</td>
</tr>
<tr>
<td>External diameter (Outdrum)</td>
<td>1192mm</td>
</tr>
<tr>
<td>Internal diameter (Outdrum)</td>
<td>1112mm</td>
</tr>
<tr>
<td>Installation foundation internal diameter (Base)</td>
<td>739mm</td>
</tr>
<tr>
<td>Installation foundation external diameter (Base)</td>
<td>947mm</td>
</tr>
<tr>
<td>Product weight</td>
<td>300KG</td>
</tr>
<tr>
<td>Installation foundation height</td>
<td>50mm</td>
</tr>
<tr>
<td>Door overall size</td>
<td>1200mm (L) x 1070mm (W) x 2330 (H)</td>
</tr>
</tbody>
</table>

TECHNICAL PARAMETERS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Voltage</td>
<td>220V/AC ±10% 50Hz</td>
</tr>
<tr>
<td>Rated Power</td>
<td>120W</td>
</tr>
<tr>
<td>Lighting Power</td>
<td>9W</td>
</tr>
<tr>
<td>Maximum Driving Force (static)</td>
<td>150N</td>
</tr>
<tr>
<td>Opening Speed</td>
<td>0.16-0.46 m/s</td>
</tr>
<tr>
<td>Closing Speed</td>
<td>0.11-0.24 m/s</td>
</tr>
<tr>
<td>Keep Opening Time</td>
<td>0 -10s</td>
</tr>
<tr>
<td>Night Keep Opening Time (adjustable)</td>
<td>0 -30s (standard: 7s)</td>
</tr>
</tbody>
</table>

Certification Authority

With the authority of ministry of public security, IDC/KBB significantly promises to supply the most complete security solutions to all ATM users and banking outlets. The series of security solutions could be realized by the most personalized products.

Quiet Running

A quiet imported motor equipped with polyurethane mute pulley structure which is created by IDC/KBB could ensure that the door runs smoothly and quietly.

Excellent Quality Assurance

Passed: The 1 million failure-free detection test
Passed: The strict high and low temperature detection test
Passed: Varieties of voltage detection test

Easy Parameter Adjustment

The PSA communication technology which researched independently by IDC/KBB could realize easy setting, adjustment and programming only by PSA without opening the internal structure of the door.
ATM SECURITY DOORS
KC3000 FUNCTIONS & FEATURES

INTELLIGENT CONTROL

1. Intelligent Locking:
   When a person enters into ATM security door, the door will be locked automatically. Meanwhile the door-opening button from outside will be deactivated. This feature will prevent other persons from entering inside.

2. Intelligent Lighting:
   When ATM security door inspects someone entering inside, the light will turn on automatically to provide visual convenience for the user.

3. Intelligent Ventilation:
   When ATM security door inspect someone entering inside, the ventilation system will operate automatically. It will provide a comfortable environment for the user.

SECURITY FEATURES

4. Anti-pinch Function:
   Our advance infrared sensor ensures the user to go through the door safely. (Optional)

5. Anti-collision Function:
   When the door frame meets with resistance, it will return back automatically by using advanced software design. This will ensure the safety of the user going through the door.

6. Emergency Open Function:
   IDC/KBB’s implemented mechanical emergency open device with exclusive patent will ensure that the door could be opened easily from inside under an emergency situation (including power off). (Optional)

Customized Design

IDC/KBB provides exclusive customized products for our customers’ demand. Based on high class design and strong technology strength, IDC/KBB will bring you further satisfying experience.

TECHNICAL PARAMETERS

<table>
<thead>
<tr>
<th>Standard Configuration</th>
<th>Optional Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Strength Aluminum Alloy Rail</td>
<td>Infrared Anti-pinch Sensor</td>
</tr>
<tr>
<td>Contact Push Button</td>
<td>Security Glass</td>
</tr>
<tr>
<td>Main Control Power</td>
<td>Door Card</td>
</tr>
<tr>
<td>Lighting System</td>
<td>Canopy Light Box</td>
</tr>
<tr>
<td>Drive Unit</td>
<td>Emergency Open</td>
</tr>
<tr>
<td>9W</td>
<td>Advertisement Film Attached on Door Body</td>
</tr>
</tbody>
</table>

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