

# KS Series

## KS Series Automatic Sliding Door



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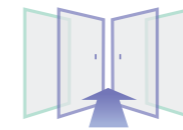
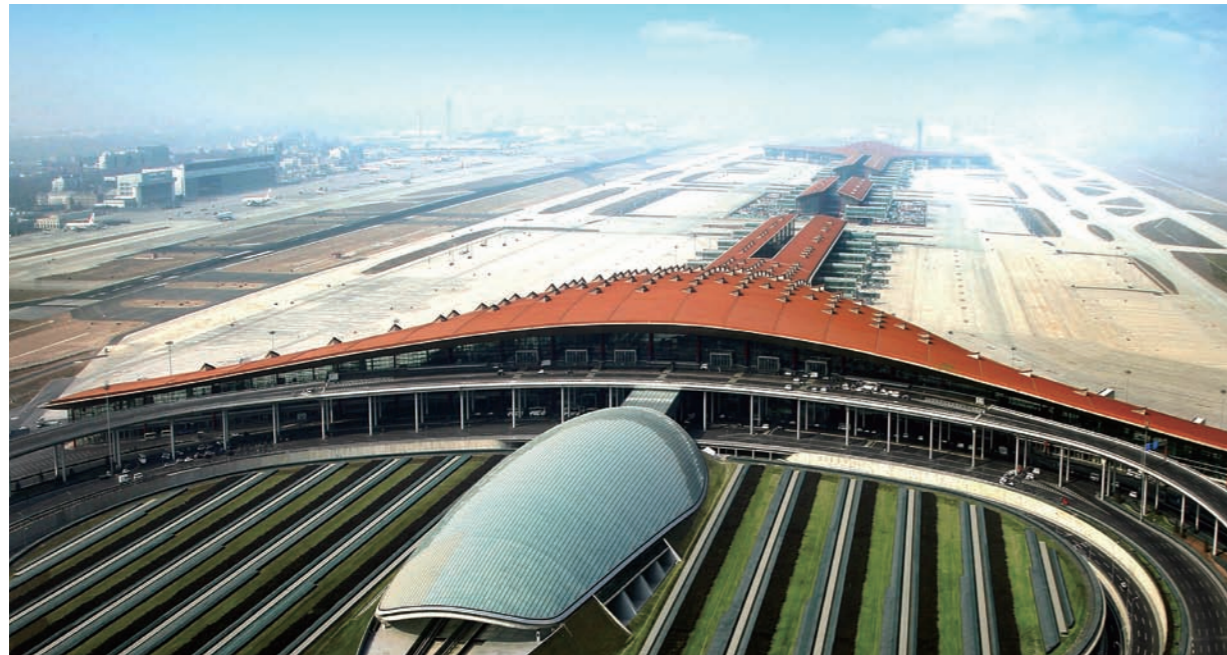
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## 01 KS Series Automatic Sliding Door

KS series sliding doors possess leading technologies, multi-function, dependable performance while being cost efficient. The control system of the KS series, exclusively developed by KBB, is easily upgradeable for maximum customer satisfaction. At the same time, the driving system, imported from Germany, guarantying world class quality.

KS series sliding doors can be seen in renowned projects as in the Beijing Capital Airport Terminal 3 Building, the 2008 Beijing Olympic landmark buildings like the Water Cube, the Shanghai Maglev Transportation facilities, and are becoming widely adopted across the world.



### • Emergency Opening

KS series sliding doors can be opened under special circumstances of the passing of massive objects and in the case of emergencies. The door's sliding and fixed leaves can be pushed open by human force at any position, maximizing the passing space within the door.



### • Backup Power Supply

KS series sliding door's exclusive UPS backup battery system allows the automatic doors to continue operating for 30 minutes in the case of a power failure.



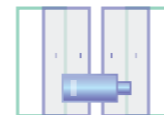
### • PSA Control Panel

Invented by KBB, the PSA control panel is an innovation in the world of automatic door control systems. The seven modes can be easily switched through the PSA control panel. This panel can also be used to make adjustments to the operation parameters, while showing any possible error codes through a display.



### • Nylon Track Rail

One of the symbolic features of KBB products is the nylon track rail, which is excellent in lowering noise and reducing track wastage.



### • De-energized Door Leaf Settings

With this feature, the door leaves can be set to be opened or closed after the door is completely de-energized in the case of an emergency situation. This can be set accordingly to the requirements of the customers before the products are sent out. (The default setting is "closed".)



### • Self-Test

When the automatic door begins to work, it establishes the self-learning process and calculates the optimum open/close speed, acceleration/deceleration time, low speed distance, and other features. This function starts automatically when the door is powered on, ensuring the door to operate in the optimal state.



### • Mobile Phone/Internet Monitoring

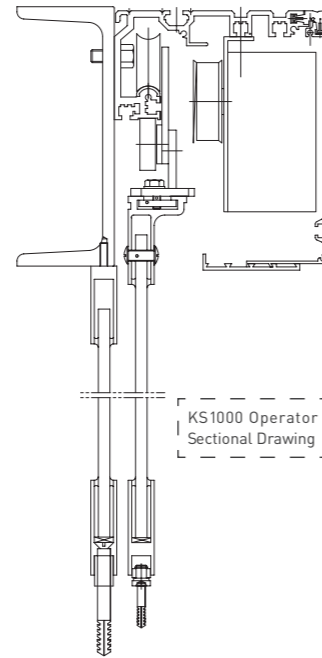
KBB's unique control software can be used to facilitate the management of the door through mobile phones or the internet. With this feature, the operator could monitor the operation status and alarms of the door.



## 03 KS1000

KS1000 automatic sliding door is one of the most popular products, well known for its stable performance and multi-function.

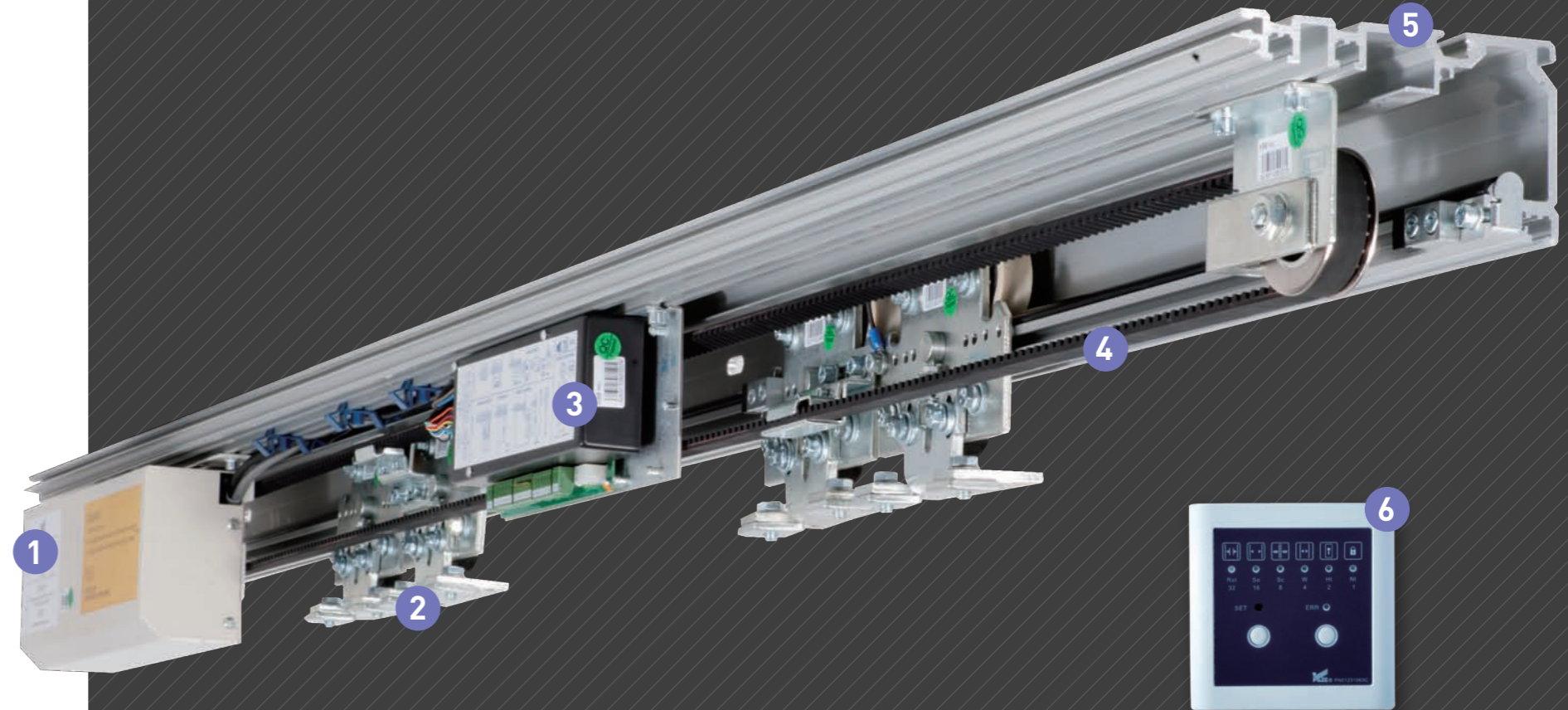
Door Width/DW	>2W+300mm
Width/W	800~3000mm
Height/H	≤3000mm
Operator Width/KW	165mm
Operator Height/KH	200mm



### • Specifications

○ Drive Ways	○ Single-Motor Driven		○ Double-Motor Driven
	Single Part	Bi-part	Bi-part
Operation Direction	Single Part	Bi-part	Bi-part
Supporting Beam Length	2400mm	2x2150mm/4300mm/ 6100mm	2x2150mm/4300mm/6100mm
Maximum Door Weight	150kg/leaf	2x100kg/leaf	2x150kg/leaf
Opening Width	800~3000mm		800~3000mm
Maximum Drive Power	150N		180N
Rated Power	100W		200W
Opening (Closing) Speed Adjustable Range	0.4~0.7m/s (0.3~0.6m/s, Closing Speed)		
Partial Opening Speed Adjustable Range	25%~90% (65%, Standard)		
Keep Opening Time Adjustable Range	5~10s (5s, Standard)		
Night Keep Opening Time Adjustable Range	5~30s (7s, Standard)		
Power Source	220V ±10%, 50/60Hz, 10A		
Ambient Temperature	-25°C~50°C		
Maximum Relative Humidity	<90%		

## 04



### Operator:

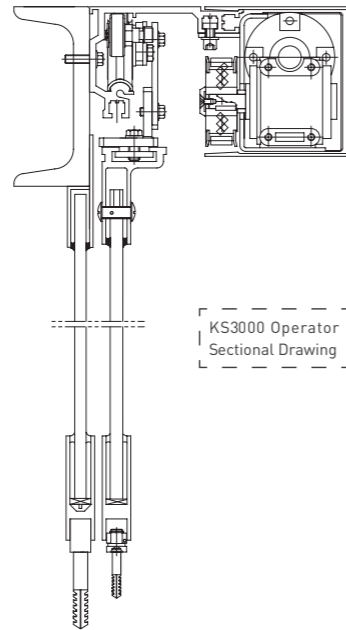
- ① Drive Unit
- ② Carriage Wheel
- ③ Control Unit
- ④ Toothed Belt
- ⑤ Supporting Beam
- ⑥ PSA Control Panel



## 05 KS3000

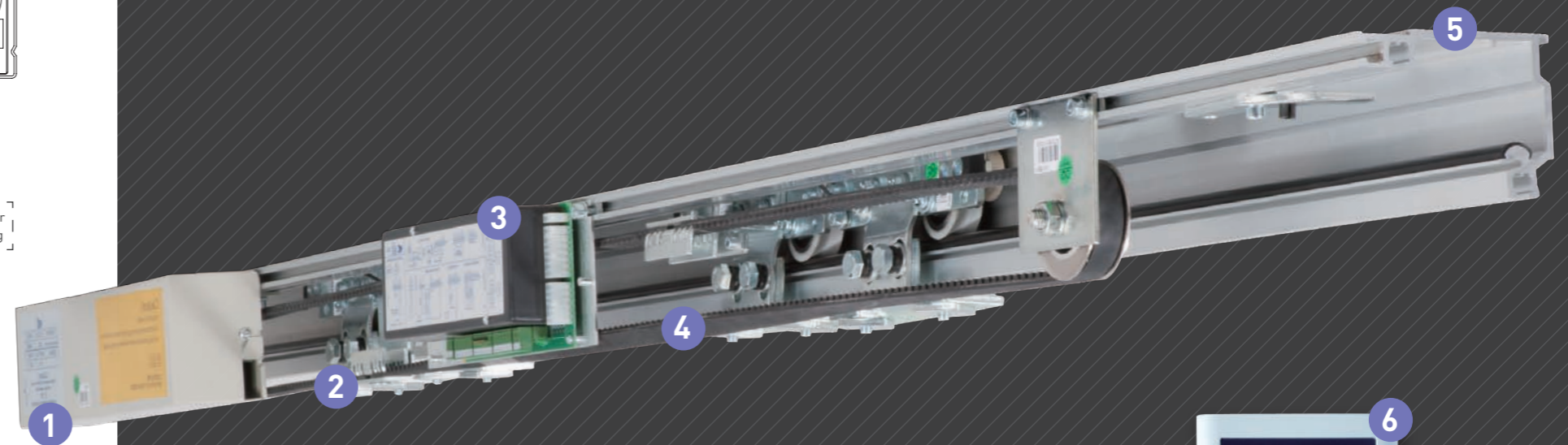
KS3000 is an optimized version based on KS1000. It adds a more compact and elegant look to the high stability and efficiency that KS1000 offers.

Door Width/DW	>2W+300mm
Width/W	800~3000mm
Height/H	≤3000mm
Operator Width/KW	185mm
Operator Height/KH	105mm



### • Specifications

Drive Ways	Single-Motor Driven		Double-Motor Driven
	Single Part	Bi-part	Bi-part
Operation Dirction	Single Part	Bi-part	Bi-part
Supporting Beam Length	2400mm	2x2150mm/4300mm/ 6100mm	2x2150mm/4300mm/6100mm
Maximum Door Weight	150kg/leaf	2x100kg/leaf	2x150kg/leaf
Opening Width	800~3000mm		800~3000mm
Maximum Drive Power	150N		180N
Rated Power	100W		200W
Opening (Closing) Speed Adjustable Range	0.4~0.7m/s (0.3~0.6m/s, Closing Speed)		
Partial Opening Speed Adjustable Range	25%~90% (65%, Standard)		
Keep Opening Time Adjustable Range	5~10s (5s, Standard)		
Night Keep Opening Time Adjustable Range	5~30s (7s, Standard)		
Power Source	220V ±10%, 50/60Hz, 10A		
Ambient Temperature	-25°C~50°C		
Maximum Relative Humidity	<90%		



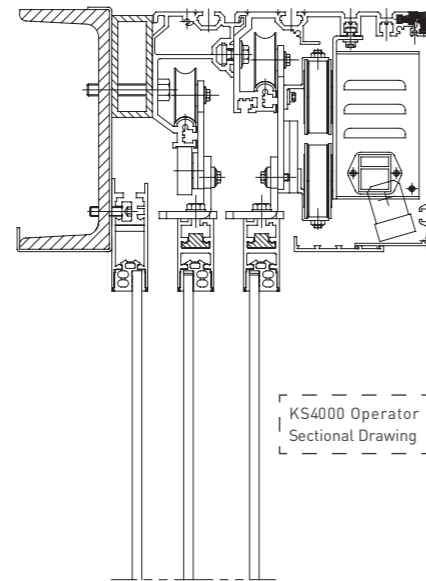
### Operator:

- ① Drive Unit
- ② Carriage Wheel
- ③ Control Unit
- ④ Toothed Belt
- ⑤ Supporting Beam
- ⑥ PSA Control Panel



## 07 KS4000

KS4000 is a telescopic sliding door from the KBB sliding door family. Telescopic sliding doors are mostly adapted for spacious entrances, its aesthetic appeal and high passing efficiency. The largest KBB telescopic sliding doors can be 4 meters high and 8 meters wide when open.

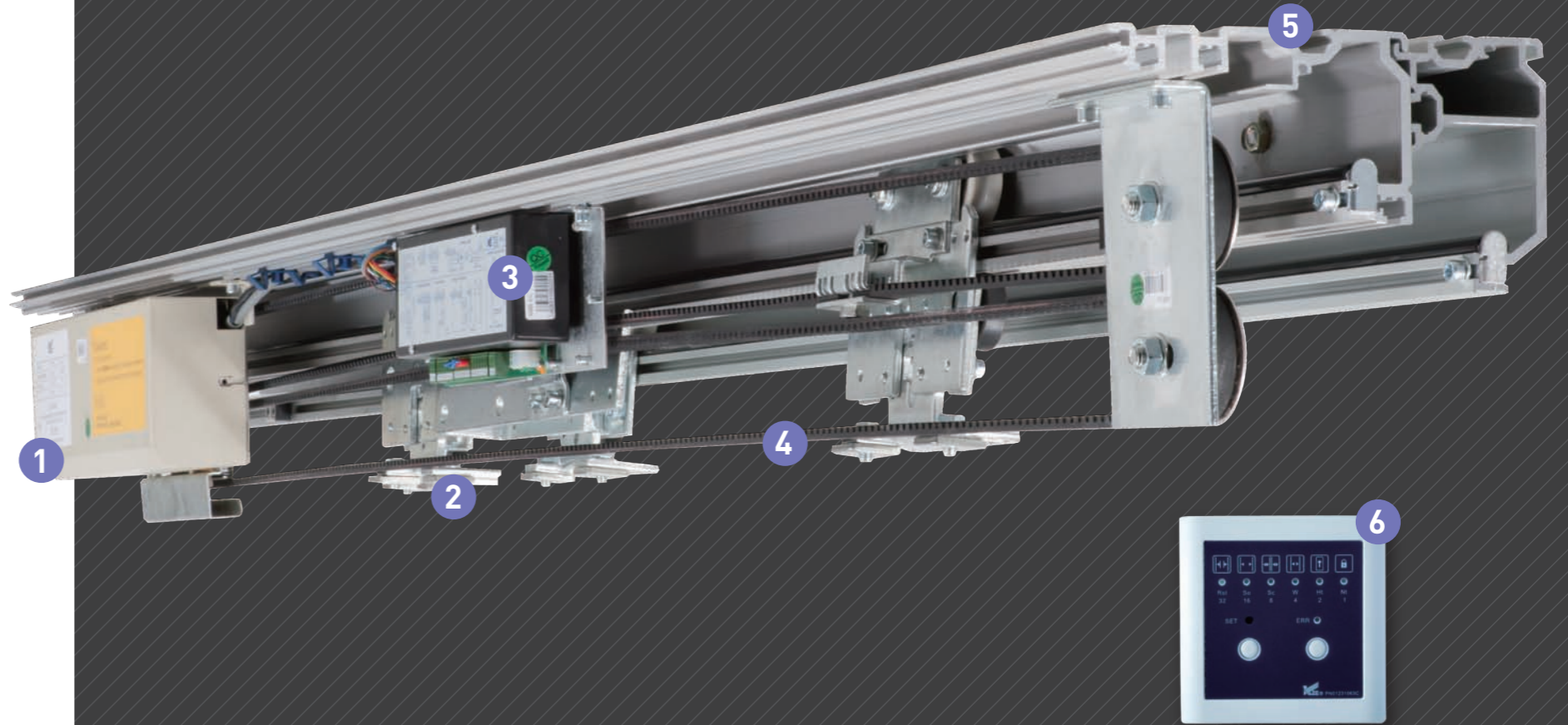


Operator Length	7000mm
Operator Height	204mm
Operator Width	235mm
Open Width	4000mm
Door Height	3000mm

### Specifications

Power Source	220V/AC ±10%, 50Hz
Rated Power	100W (Single Motor), 200W (Double Motors)
Main Fuse	2A
Maximum Drive Power (static)	150N
Opening Speed	0.4~0.7m/s
Closing Speed	0.3~0.6m/s
Keep Opening Time Adjustable Range	5~10s
Night Keep Opening Time Adjustable Range	5~30s (7s, Standard)
Maximum Drive Weight	200kg (single leaf sliding), 240kg (double leaves sliding)

## 08



### Operator:

- ① Drive Unit
- ② Carriage Wheel
- ③ Control Unit
- ④ Toothed Belt
- ⑤ Supporting Beam
- ⑥ PSA Control Panel

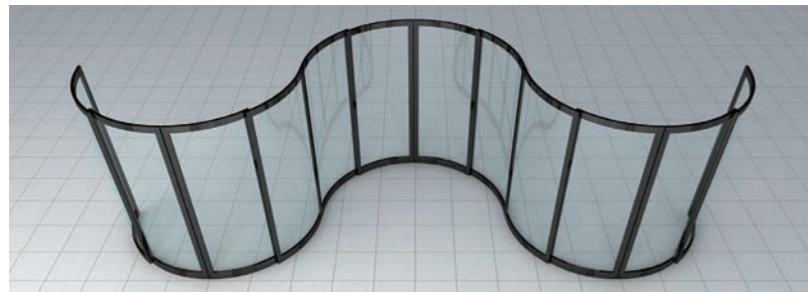
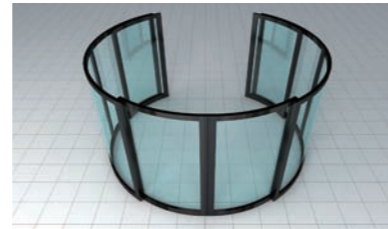
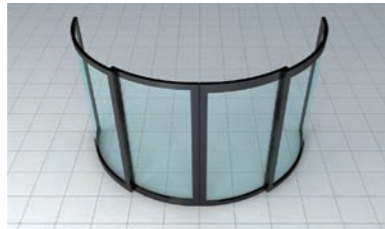
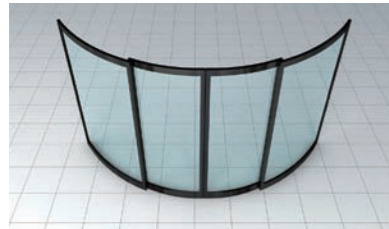


## 09 Creative Application - Automatic Curved Sliding Door KC1000

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
- 2
- 3
- 4

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

### • Specifications

⊙ Power Source	220V ±10%, 50/60Hz
⊙ Main Fuse	2A
⊙ Rated Power	200W [Double Leaves], 100W [Single Leaf]
⊙ Maximum Drive Power	150N
⊙ Ambient Temperature	-15°C~50°C
⊙ Opening Speed	0.4~0.7m/s
⊙ Closing Speed	0.3~0.6m/s



### • 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 the 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.



Solution 1



Solution 2

### • ATM Security Revolving Door

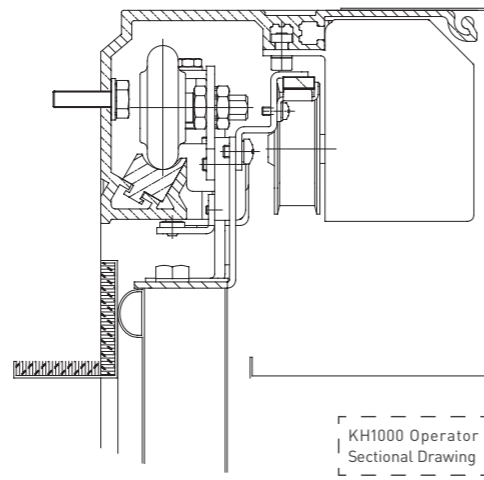
Based on the curved sliding door, KBB developed ATM security revolving door, to which automatic lock, intelligent open/close and panic breakout are added. Meanwhile, customization of appearance designing makes it a perfect companion to ATM.



# 11 KH1000

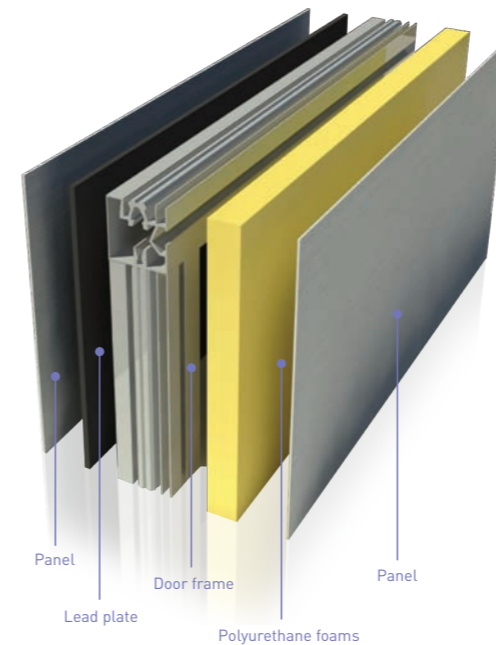
KH1000 is a professional hermetic sliding door developed by KBB and applies to special locations, which demand excellent airtightness, sound isolation, and radiation protection.

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.



# 12

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.



## ● Specifications

○ Clear Passage Width	600~1500mm
○ Clear Passage Height	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%
○ Operating Noise	≤50db

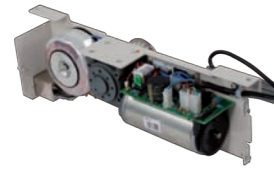
## ● Door Body

	Standard	Optional		
Surface Material	2mm aluminum plate	Stainless steel plate	Aluminum composite plate	Other materials
Surface Treatment	Coating	Stainless steel color	Aluminum composite plate color	Others
Lead Protection	○	One lead equivalent	Two lead equivalent	Four lead equivalent
Anti-strike Strip	●	○		
Observation Window	●	○		

Note: ● is available ○ is not available  
Design and specifications are subject to change without notice, as they are based on product development.

## 13 Spare Parts List

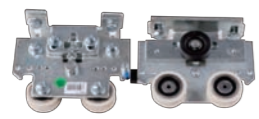
Drive Unit



PSA Control Panel



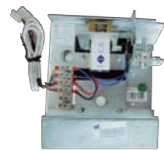
Carriage Wheel



Reserve Wheel



Electro-Mechanical Locking



Key Switch



Operator Cover



Control Unit



Supporting Beam



Belt Clamp



Stopping Device



Electric Plug Lock



Safety Beam



Radar (Eagle 6)



Nylon Track Rail



Toothed Belt



Double Drive



Radar KSS-1M



Backup Battery



## Surface Treatment

### • Anodizing

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

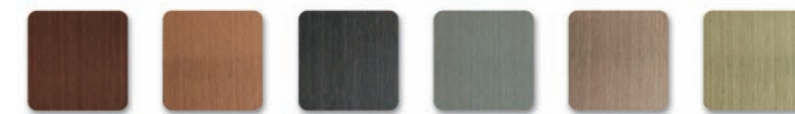
Mirror surface



Satin pattern



Hair pattern



Carving pattern



Arenaceous pattern



### • Coating

KBB provides two kinds of coating: powder coating and PVDF coating.