Company Overview

Headquartered in Beijing, KBB is the first hi-tech automatic door manufacturer in China. Through the development of over 20 years, KBB has become one of the biggest global leading providers of building entrance solutions.

At present, with the biggest sales and after-sales service networks in China, KBB has three modern manufacturing bases in Beijing, Shenyang and Ningbo respectively, a professional base for aluminum alloy surface treatment and processing, an international trade company (KBB International Co., Ltd.) and an intelligent software development company (Ningbo Zhisheng Software Co., Ltd.).

KBB Beijing Headquarter

Shenyang Production Base

Ningbo Production Base

Beijing Changping Line

KBB000 is a platform screen door system independently developed by KBB for the rail transit through 5 years’ R&D process. KBB has completely independent intellectual property rights of this product line, and successively obtained copyrights of such software as PSC, BDU, PTE and communication, patents of invention and utility model for its half-height security door, highly secure double-circuit electro-mechanical lock and belt tension adjuster. It has been applied in Changping Line and Metro Line 8 of Beijing for 2 years with failure-free operation, so it has been recognized by the public transportation related authorities by its high quality and reliability.
Product Overview

KS8000P Screen Door

KS8000F Full-Height Security Door

KS8000S Half-Height Security Door

Product Feature

High Safety
- In the FSC of the central control unit, processing, transmission and receiving of important signals are made through logic modules, ensuring to be designed on failure and safety principles, and signal transmission adopts the double-circuit double-wire system.
- All vital safety signals are designed with hard-wire connection.
- All software functions which may affect safety adopt the redundancy mode.
- The screen door sill is made of anti-wear and anti-slip materials, preventing passengers from slipping in crowding and evacuation.
- The backup accumulator can guarantee that the control power supply would keep working for more than one hour on power failure, giving passengers enough time to leave carriages safely.
- All devices of screen door systems have gone through an EMC test to ensure that delivered devices will neither endanger health of passengers and station workers nor interfere in other electrical and signal devices in stations.
- The sliding door is provided with a door closing obstacle detection function. Besides, its closing force and kinetic energy are set within a safe range to ensure no to clamp and injure passengers.

High Reliability
- Advanced critical components: Germany motor + Siemens PLC.
- Original roller wheel support operation: the sliding door support of the half-height security door has no cantilever, with a balanced stress, thus improving the service life of the sliding-support rail.
- Unique belt tension adjuster: it can adjust the tension freely and accurately when the machine is running, making the system's working efficiency higher.
- Safe double-circuit electro-mechanical lock: adopting an advanced microprocessor for intelligent control, making the door much safer.

High Convenience for Monitor and Maintenance
- User-friendly monitor interface: real-time monitoring of the field of platform screen doors, with more visual operation interfaces.
- Easy debugging system: All maintenance can be operated on the platform site to guarantee failure-free operation of trains and safety of maintenance personnel, and every pair of sliding doors can be isolated from the system for separate maintenance without affecting operation of the entire line of doors.
- All main parts of the screen door system, like sliding door, fixed door, emergency door, end door, sill, decorative board, door parts in top box, can be designed into a removable type for easy and fast maintenance.

<table>
<thead>
<tr>
<th>Model</th>
<th>Application</th>
<th>Function</th>
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<tbody>
<tr>
<td>KS8000P</td>
<td>Underground stations with an open environmental system, ground stations or</td>
<td>Enclosing and isolating the train from the platform.</td>
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<td></td>
<td>elevated stations with an air conditioning system</td>
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<tr>
<td>KS8000F</td>
<td>Underground stations with a closed environmental control system, ground</td>
<td>There are ventilation areas between the door's body and the platform's top</td>
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<tr>
<td></td>
<td>stations or elevated stations without an air conditioning system.</td>
<td>and bottom.</td>
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<tr>
<td>KS8000S</td>
<td>Underground stations with a closed environmental control system, ground</td>
<td>It isolates the platform from the rail area with semi</td>
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<td></td>
<td>stations or elevated stations without an air conditioning system.</td>
<td>closed isolation between the platform and the rail.</td>
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Platform Screen Door System

Main Components of Screen Door Control System
- Central Interface Panel (PSC)
- Local Control Panel (PSL)
- Integrated Backup Panel (IBP)
- Door Control Unit (DCU)
- Communication Media
- Communication Interfaces
- Peripheral Equipment
- Monitor Head (ST-300FLC)
- Two Unit Controllers (PEDC)
- Connecting Terminals
- Interface Devices
- Control Power Distribution Loops

Typical station configuration
- A central interface plate (PSC)
- 2 local control panel (PSL)
- A integrated backup panel (IBP)
- 48 sets of sliding doors
- 12 sets of emergency doors
- 4 sets of MSDs

Platform Screen Door Debugging System

The software debugging system for the platform screen door (PTE) is mainly used for routine maintenance of the platform screen door and adjustments of working parameters, which can not only debug the drive unit of a single screen door but also set and adjust parameters of all screen doors in a station in a unified way.
High Quality

1. **Dynamic Impact Force Curve of Screen Door**
   - Always give priority to passage safety.

2. **Torque Test**
   - The force stopping the sliding door from closing is less than or equal to 150N.

3. **1,000 Tests Before Delivery**
   - Every screen door has gone through at least 1,000 operational tests before delivery.

4. **Production and Inspection Equipment**
   - Including big laser cutters and gantry processing machine tools, high-temperature vibration-proof inspection equipment, and load operation monitor platforms etc.

Qualifications and Honors

KS8000 has obtained various patents in the fields of product invention, software development, utility model design etc.
Key projects

Beijing Changping Line
Changping Line of Beijing Subway is a south-north express transit line connecting Beijing downtown and Changping District, with a total length of 31.24km, including 7 stations, 48 full-height security door units, 288 half-height security door units and 28 MSDs. It was opened on December 28, 2010. For the first time the line adopted a platform screen door system independently developed by Chinese automatic door manufacturer with intellectual property rights, breaking monopoly of overseas technologies.

Beijing Transit Line 8
Beijing Transit Line 8, located on the axle of Beijing, is a north-south transit line going through the city in the transit planning network of the city. The line has an operational length of 21.2km, all of which is underground, and it has 16 underground stations, with a total of 768 screen door units.