Rail Vehicle Systems

Platform Systems



Applications

- Heavy Metro Systems
- Light Rail Systems
- Automated Metros
- APMs Airport Link/City Shopping
- New & Retrofit Installations



www.platformscreendoors.com

Westinghouse Platform Screen Doors

Focusing corporate know-how on custom-engineered solutions. The most extensive range of platform systems. ■ A member of the Knorr-Bremse Group since 2000. ■ Over 99.9 % system availability achieved. ■ Gobal contracts for more than 9,000 platform screen doors on 500 platforms. Over 5,500 doors in daily service protecting and guiding passengers around the world.



Technical Features

The elegant appearance of Westinghouse Platform Screen Door systems is designed to enhance the station environment whilst providing a barrier to prevent access to the track. The platform facade extends at least the length of the train and usually encloses the entire length of the platform. **Active Sliding Door (ASD) Modules** align with the doorways of each vehicle when it is stationary at the platform. Each ASD comprises a central pair of automatic bi-parting doors flanked by fixed glass panels. **Emergency Exit Doors (EEDs)** may be specified in place of fixed panels.

There is a load bearing structure which provides the civil interface with the platform for each **Active Sliding Door Module.** The threshold on the platform surface restrains and guides the doors and panels. The operating equipment is located within a sealed enclosure which is accessible via use of a staff key.

Tunnel Access Doors (TADs) may be selected for installation perpendicular to the platform system at each end of the platform to allow access for authorised personnel to the tunnel and emergency evacuation. A typical control system includes a door control unit (DCU) on each doorway and an overall platform controller. Each DCU incorporates a micro controller which controls door movement to a user-defined profile. In all cases any failure is handled automatically with a report being sent to the station monitoring network.

The **advanced PSD2000 core operating system** maintains the core functionality. The customer-specific configuration envelope tailors the system to the customer's specific requirements including door profile and timings, obstruction handling strategy, system status monitoring and interface configuration for the signalling system and the monitoring link.









Platform Screen Doors (PSD)

- Full height screen work
- Environmental screen prevents loss of air conditioned air down tunnels
- Civil interface at platform and ceiling level
- Sliding doors to match train door operation, flanked by fixed panels
- Option of Emergency Egress Doors to allow passengers to alight in event of train misalignment
- Can be installed on new build and retrofit platforms
- Suitable for underground, at grade and elevated stations

Platform Edge Doors (PED)

- Screen work 2.3 to 2.5m high typically
- Allows free flow of air for platform ventilation
- Civil interface at platform level only
- Sliding doors to match train door operation, flanked by fixed panels
- Option of Emergency Egress Doors to allow passengers to alight in event of train misalignment
- Can be installed on new build and retrofit platforms
- Suitable for underground, at grade and elevated stations

Platform Safety Gates (PSG)

- Screen work 1.3 to 1.5m high typically
- Allows free airflow for ventilation
- Mounted directly onto finished floor
- Sliding doors to match train door operation flanked by fixed panels
- Option of Emergency Egress Doors to allow passengers to alight in event of train misalignment
- Can be easily installed on both new and retrofit applications
- Rapid installation as modules can be assembled & tested off-site
- Suitable for underground, at grade and elevated stations

Key Features

	DCD	DED	DCC
Objective	PSD	PED	PSG
Increased passenger safety	•••	•••	••
Reduced risk of suicides	•••	•••	••
Permit increase in platform capacity	•••	•••	•••
Increase passenger volume	•••	••	••
Fewer station staff	•••	•••	•••
Prevent loss of air conditioned air	•••	••	
Permit natural air circulation in station		••	•••
Ease of installation	••	•	•••
Minimal civil interfaces for retrofit	•	••	•••
Increase ticket price (improved passenger experience)	•••	••	••
Additional advertising potential	•••	•••	•••
Standard Enhanced Optimum			



Product Range

complete platform systems incl.:

- Platform Screen Doors
- Platform Edge Doors
- Platform Safety Gates
- Media Wall

Customer Benefits

- Improved passenger safety
- Improved scheduling efficiency
- Improved operational efficiency
- Increased passenger flows
- Reduced liability and risk
- Proven high availability
- Energy savings on air-conditioning
- Reduced fire and smoke hazard
- Low risk retrofit solutions
- Railway based technology
- Enhanced station environment
- Allows automated operation

Additional Features

- System Maintenance Tool for monitoring and diagnostics
- Certified control system
- Retrofit solutions
- Future upgrade potential