

Platform Screen Doors

One Partner, Every Stage

KNORR-BREMSE

Preparing for Tomorrow’s Challenges

Urban rail networks are being asked to do more than ever.

Growing passenger demand, ageing infrastructure, and increasing expectations for safety, accessibility and service reliability are placing greater pressure on metro networks globally. Platform interface projects can help increase capacity and improve platform performance, but lasting value depends on choosing a partner that can support the asset throughout its entire service life.



“Delivering a successful rail project is about more than supplying a solution. It requires a partner that can support operators from early planning through to long-term operation and future upgrades.”

Rob Harker
Head of Platform Screen Doors

One Partner, Every Stage

Knorr-Bremse brings together project delivery, lifecycle support and future modernisation under one long-term partner relationship. Our approach has helped operators reduce complexity, maintain continuity throughout the asset lifecycle and make confident decisions that support long-term network performance.



One Partner, One Accountability

Specify
Aligning the right solution to operational, capacity and safety requirements, reducing project risk from the outset.

Deliver
Design, installation and commissioning delivered as a complete package, helping operators achieve a smooth transition into service.

Validate
Confirming performance during trial running and early operation, providing confidence before full passenger service.

Maintain
Lifecycle engineering, support services and condition-based monitoring that help maximise reliability and availability.

Extend
Upgrades and refurbishment programmes that enhance performance and maximise operational asset life.

Future-Proof
Preparing systems for evolving technologies and network demands, helping protect long-term investment value.

40+ | Years supporting operational PSD systems

100% | PSD lifecycle coverage

27+ | Years, longest PSD customer partnership

Proven Around the World

1987
Singapore
First Heavy Metro PSD installation.



1999
UK
Jubilee Line Extension.
476 doors installed.



2010
Saudi Arabia
Makkah Metro.
1,860 doors across 9 stations, up to 55°c.



2012
China
Shanghai Line 12.
1,920 doors installed.



2022
UK
Elizabeth Line.
432 doors across 16 platforms.



2024
Greece
Thessaloniki.
208 doors across 13 stations, up to 70m long.



Our Global Footprint

- Singapore
- Hong Kong
- Kuala Lumpur
- Beijing
- London
- Toulouse
- Copenhagen
- Thessaloniki
- Dubai
- Roissy-en-France
- Brescia
- And more

40+
Global metro projects

27,000+
Active doorways

20+
Cities with active PSD systems

Product Portfolio

No two rail networks face the same challenges. That's why Knorr-Bremse provides a flexible portfolio of platform screen door solutions, designed to meet a wide range of operational, architectural and infrastructure requirements.



Platform Screen Doors

- Full-height screened platform environment
- Interface at both platform and ceiling level
- Supports control of platform air movement and conditioned air loss
- Reduces train noise within enclosed station environments
- Suitable for new-build and retrofit applications
- Compatible with digital enhancements and future upgrades
- Integrated blast protection options available



Platform Edge Doors

- Typically 2.3m to 2.5m high
- Free airflow supports naturally ventilated station
- Platform-level civil interface
- Suitable for new-build and retrofit applications
- Lower infrastructure impact than full-height systems
- Compatible with digital enhancements and future upgrades



Platform Screen Gates

- Typically 1.3m to 1.7m high
- Mounted directly to the finished platform surface
- Maintains open platform ventilation
- Minimal civil works requirements
- Rapid installation approach
- Suitable for retrofit and modernisation projects
- Compatible with digital enhancements and future upgrades



System Enhancements

Dynamic Lighting

Integrated lighting provides clear visual guidance for boarding and disembarkation, helping operators improve passenger movement, optimise dwell times and enhance platform efficiency.

Media Screens

Located along the platform screen door system, carrying advertising content and earning revenue for the operator. Content can be remotely controlled.

Public Address Systems

Hi-definition speakers integrated into the platform screen system to deliver operator announcements; another major safety feature.



Dynamic Status Displays

Real-time passenger and operational information displayed directly above platform doorways helps improve passenger flow, supports service recovery during disruption, and enables operators to communicate critical updates instantly.

Maintenance

Continuous real-time monitoring of platform screen door performance enables predictive maintenance, reducing unplanned failures, improving availability, and optimising maintenance resources.

Wi-Fi

Delivered through the platform screen system allowing metro users internet access underground.



Reliability & Performance Engineering

Helping operators investigate failures, analyse trends and improve performance, using operational data and engineering expertise to enhance long-term reliability and drive continuous improvement.

Condition-Based Monitoring

Analysing platform screen door data to detect faults early, improve maintenance planning and increase system availability across the network.

Obsolescence Management

Helping operators manage obsolescence through proactive planning, risk reduction and informed investment decisions, supporting long-term asset sustainability and operational reliability.

Whole-Life Support

Spares & Asset Management

Supporting operators with spare parts, repairs and inventory optimisation, ensuring the right components are available to maximise availability while controlling lifecycle costs.

Overhaul & Modernisation

Helping operators adapt infrastructure through refurbishment, technology upgrades and life-extension projects, maintaining performance and ensuring systems meet future operational requirements.

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