



KNORR-BREMSE

Platform Screen Doors

One Partner, Every Stage



➤ 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.



Future-Proof

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



Extend

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



Maintain

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



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.



Our Global Footprint

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

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.



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.

> Whole-Life Support



Reliability & Performance Engineering

When issues occur, understanding why they happened is just as important as restoring service. Knorr-Bremse supports operators with failure investigations, trend analysis and performance improvement initiatives that help strengthen long-term system reliability. Leveraging operational data and engineering expertise, we help operators turn experience into continuous improvement.



Spares & Asset Management

Effective lifecycle management requires the right parts to be available at the right time. Knorr-Bremse supports operators with spare parts supply, repair services and inventory optimisation strategies designed to support availability while controlling lifecycle costs.



Overhaul & Modernisation

Infrastructure requirements evolve over time. From targeted refurbishment programmes to technology upgrades and life-extension projects, Knorr-Bremse helps operators maintain performance and adapt systems to future operational needs.



Obsolescence Management

As systems age, component availability and technology evolution can become significant operational challenges. Our obsolescence strategies help operators plan ahead, minimise risk and make informed investment decisions that support long-term asset sustainability.



Condition-Based Monitoring

Knorr-Bremse's Condition-Based Monitoring solution analyses operational data from platform screen doors to identify emerging issues before impacting service. The result is earlier fault detection, more effective maintenance planning, and improved system availability across the network.



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 **SELECTRON**

 **EVAC**

 **KB SIGNALING**

 **ZELISKO**

 **RAILSERVICES**