OEM support
Integration
Preparation of integration concepts for the supervision: support provided by IFE service
On-site service
Technical support
Individual training programs with experienced assembly aids and appliances
Professional installation of the door system using by the customers’ own staff technicians during the assembly of the door system

Aftermarket services
Modification and upgrade of existing door systems
Professional repair with defined lead times
Spare parts management with original parts

Tools
Diagnostic software
Specific assembly aids and appliances
Condition, maintenance inspection, etc.
Testing device for door control unit (e.g. UNITester)

Rail Vehicle Systems

Entrance Systems

Applications
- High-Speed Doors
- Eight-Leaf Doors
- Barriers
- Regional and Commuter Trains

Knorr-Bremse Group

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Each train journey starts with an entrance system

An important factor in ensuring that train operating schedules are maintained is that passengers can enter and exit the train efficiently and safely. The quality, reliability, and effectiveness of the train entrance system is therefore crucial in maintaining service levels to passengers and for optimizing operational efficiency.

Train manufacturers and operators around the world recognize the importance of high-quality entrance systems and are increasingly specifying IFE Innovations for entrance systems. Calculations have shown that the economic benefit of a high-quality entrance system can exceed the original acquisition costs by a factor of ten or more. Throughout the entire production process, from the product development and manufacturing stages to the final tests and mounting, IFE focuses on uncompromising quality. IFE is the train entrance systems specialist and has earned an extraordinary reputation worldwide for innovative door systems. The company is the first to address the issue of creating door systems with an excellent cost/benefit ratio across the whole life-cycle. Continuous development from IFE means the products and systems from the company stay ahead of increasing demands of global train builders and operators. Currently, IFE is setting new standards with a modular door system, which makes it possible to tailor solutions for customers more quickly, in a more flexible and economical way than ever before.

Product range
Sliding plug doors for high-speed trains
- Employed by operators around the world
- No inflatable seals (passive seal system)
- Tested to meet the highest safety requirements
- Fully electric or pneumatic drives

Sliding plug doors for regional traffic
- Modular system enables specification to individual regional requirements
- Installation within the portal width
- Compact design with minimized cross section
- Electric drive

Sliding doors for mass transit
- Employed by operators around the world
- Short opening and closing times
- Low life cycle costs despite high door cycles
- Electric drive

Cab doors and loading doors
- Designed as plug door, sliding door, or clam door
- Available as fully automatic, semi-automatic, or manual system
- Electric or pneumatic drive

Access devices
- Sliding steps, gap bridges
- Swing steps, sliding steps
- Ramps, track access devices
- Variable stopping distance
- Intelligent platform detection
- On request: obstacle and weight detectors

Internal doors and fire protection doors
- Single leaf or double leaf sliding doors
- Short opening and closing times
- Conform to the latest fire protection requirements
- Electric drive

Internal doors and fire protection doors
- Monitoring and securing of the closing edge
- Protection against crushing in the closing door
- Checking of the closed door
- Detection of jammed objects

Monitoring and securing of the closing edge
- Protection against crushing in the closing door
- Checking of the closed door
- Detection of jammed objects

High-speed trains
Regional trains
Double-deckers
Suburban trains
Metros
Light rail vehicles

Product range
Sliding plug doors for regional traffic
- Modular system enables specification to individual regional requirements
- Installation within the portal width
- Compact design with minimized cross section
- Electric drive

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Double-deckers
Suburban trains
Metros
Light rail vehicles

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**PRODUCT RANGE**

**Sliding plug doors for high-speed trains**
- Employed by operators around the world
- No inflation seals (passive seal system)
- Tested to meet the highest safety requirements
- Fully electric or pneumatic drives

**Sliding plug doors for regional traffic**
- Modular system enabling specification to individual regional requirements
- Installation within the portal widths
- Compact installation with minimized cross section
- Electric drive

**Sliding doors for mass transit**
- Employed by operators around the world
- Short opening and closing times
- Low-life cycle costs despite high door cycles
- Electric drive

**Cab doors and loading doors**
- Designed as plug door, sliding door, or clam door
- Available as a fully automatic, semi-automatic, or manual system
- Electric or pneumatic drive

**Access devices**
- Sliding steps, gap bridges
- Swing steps, sliding steps
- Ramps, track access devices
- Variable stopping distance
- Intelligent platform detection
- On request: obstacle and weight detection

**Internal doors and fire protection doors**
- Single-leaf or double-leaf sliding doors
- Short opening and closing times
- Conforms to the latest fire-protection requirements
- Electric drive

**Sliding doors for mass transit**
- Monitoring and securing of the closing edge
- Protection against crushing in the closing door
- Detection of opened doors
- Detection of jammed objects

**Platform doors and sliding steps**
- Platform doors
- Sliding steps

**Internal doors**
- Double-deckers
- High-speed trains
- Regional trains
- Double-deckers
- Suburban trains
- Metros

**Sliding doors for long-distance trains**
- Metro trains
- Light rail vehicles
- Suburban trains
- High-speed trains
- Regional trains
- Double-deckers
- Trains
- Internal doors

Each train journey starts with an entrance system

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PRODUCT RANGE

Sliding plug doors for high-speed trains
- Employed by operators around the world
- No inflation seals (passive seal system)
- Tested to meet the highest safety requirements
- Fully electric or pneumatic drives

Sliding plug doors for regional traffic
- Modular system enables specification to individual regional requirements
- Installation within the portal width
- Compact mechanisms with maintained cross section
- Electric drive

Sliding doors for mass transit
- Employed by operators around the world
- Short opening and closing times
- Low life cycle costs despite high door cycles
- Electric drive

Cab doors and loading doors
- Designed as plug door, sliding door, or clam door
- Available as a fully automatic, semi-automatic, or manual system
- Electric or pneumatic drive

Access devices
- Sliding steps, gap bridges
- Swing steps, sliding steps
- Ramps, track access devices
- Variable stopping distances
- Intelligent platform detection
- On request: obstacle and weight detectors

Internal doors and fire protection doors
- Single leaf or double leaf sliding doors
- Short opening and closing times
- Conforms to the latest fire-protection requirements
- Electric drive

Sliding doors for mass transit
- Monitoring and securing of the closing edge
- Protection against crushing in the closing door
- Checking of the closed door
- Detection of jammed objects

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- Checking of the closed door
- Detection of jammed objects

Each train journey starts with an entrance system
OEM support
Integration
Supervision: support provided by IFE service
Series installation: professional assembly of the door system using assembly aids and appliances

First assembly
Tools
Inspection of door systems (analysis of actual condition, maintenance inspection, etc.)

Maintenance: material, logistics, and implementation at first hand

Testing device for door control unit (e.g. UNITester)
Diagnostic software

Technical support
Individual training programs with experienced technicians during the assembly of the door system

Rail services doors:

DMS support
- First assembly
- Individual training programs with experienced trainers
- Technical support
- Oo service

Integration
- Series installation: professional assembly of the door system
- Supervision: support provided by IFE service throughout the assembly of the door system by the customer’s own staff
- Preparation of documentation concepts for the professional installation of the door system using assembly aids and appliances

Alternation services
- Spare parts management with original parts
- Professional repair with defined lead times
- Maintenance, material, logistics, and implementation at first hand

Modifications and upgrade of existing door systems (such as installation of obstacle detection systems)

Impection of door systems (monitoring of actual condition, maintenance inspection, etc.)
RAIL SERVICES DOORS

OEM support
- First assembly
- Individual training programs with experienced trainers
- Technical support
- On-site service
- Individual training programs with experienced technicians during the assembly of the door system

Integration
- Series installation, professional assembly of the doors (IFS)
- Supervision: support provided by IFE service
- Support by the customers' own staff
- Technical support
- Individual training programs with experienced technicians

Aftermarket services
- Modification and upgrade of existing door systems
- Professional repair with defined lead times
- Testing device for door control unit (e.g. UNITester)
- Diagnostic software
- Specific assembly aids and appliances

Rail Vehicle Systems

Applications
- High-Speed Trains
- Light Rail Vehicles
- Regional and Commuter Trains