

Entrance Systems



Applications

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

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 realize solutions for customers more quickly, in a more flexible and economical way than ever before.



High-speed trains



Regional trains



Double-deckers

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 mass transit

- Employed by operators around the world
- Slim, modular design
- Short opening and closing times
- Low life cycle-costs despite high door cycles
- Electric drive

Sliding plug doors for regional traffic

- Modular system enables specification to individual regional requirements
- Installation within the portal width
- Compact mechanism 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
- Modular system enables specification to individual regional requirements
- Electric drive



Plug doors for long-distance trains



Plug doors for mass transit



Sliding doors for mass transit



Cab doors



Suburban trains



Metros



Light rail vehicles

PRODUCT RANGE

Cab doors and loading doors

- Designed as plug door, sliding door, or slam door
- Available as a fully automatic, semi-automatic, or manual system
- Electric or pneumatic drive

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

Access devices

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

Sliding doors for mass transit

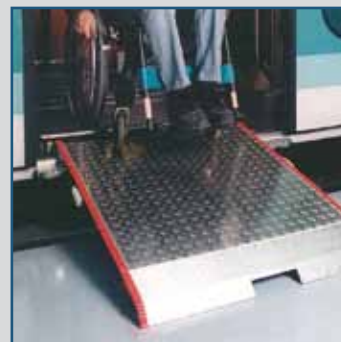
- Monitoring and securing of the closing edge
- Protection against crushing in the closing door
- Checking of the closed door
- Detection of jammed objects



Swing steps and folding steps



Sliding steps and gap bridges



Ramps



Internal doors



RAIL SERVICES DOORS

OEM support

- First assembly
- Individual training programs with experienced trainers
- Technical support
- On-site service

Integration

- Series installation: professional assembly of the doors by OEM
- Supervision: support provided by IFE service technicians during the assembly of the door system by the customers' own staff
- Preparation of integration concepts for the professional installation of the door system using assembly aids and appliances

Tools

- Specific assembly aids and appliances
- Diagnostic software
- Testing device for door control unit (e.g. UNITester)

Aftermarket services

- Spare parts management with original parts
- Professional repair with defined lead times
- Maintenance: material, logistics, and implementation at first hand
- Modification and upgrade of existing door systems (such as installation of obstacle detection systems)
- Inspection of door systems (analysis of actual condition, maintenance inspection, etc.)

Rail Vehicle Systems

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Innovations
For
Entrance Systems

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 **Microelettrica Scientifica**

 **WESTINGHOUSE**
platform screen doors

 **NEW YORK AIR BRAKE**

 **S Y D A C**

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