

RAIL VEHICLE SYSTEMS
ENTRANCE SYSTEMS



Entrance Systems



RAIL SERVICES FOR TRAIN DOORS

OEM SUPPORT

- Initial 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 using 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.)

Knorr-Bremse GmbH
Division IFE
Automatic Door Systems
33.a Straße 1
3331 Kematen/Ybbs
Austria
Tel: +43 7448 9000
Fax: +43 7448 9000 65110
WWW.IFE-DOORS.COM

»Europe | Africa

AUSTRIA | Mödling
Dr. techn. J. ZELISKO GmbH
Tel: +43 2236 4090

Knorr-Bremse GmbH
Tel: +43 2236 4090

CZECH REPUBLIC | Brno
IFE-CR, a.s.
Tel: +42 0532 159111
IGE-CZ s.r.o.
Tel: +42 0548 424050

FRANCE | Reims
Freinrail Systèmes Ferroviaires S.A.
Tel: +33 3 26797200

GERMANY | Berlin
Knorr-Bremse Systeme für Schienenfahrzeuge GmbH
Zweigniederlassung Berlin
Tel: +49 30 93920

GERMANY | Munich
Knorr-Bremse Systeme für Schienenfahrzeuge GmbH
Tel: +49 89 35470

HUNGARY | Budapest
Knorr-Bremse Vasúti Jármű Rendszerek Hungária Kft.
Tel: +36 1 4211100

ITALY | Florence
Knorr-Bremse Rail Systems Italia S.r.l.
Tel: +39 055 30201

ITALY | Buccinasco
Microelettrica Scientifica SpA
Tel: +39 02 575731

NETHERLANDS | Leeuwarden
IFE Tebel Technologies B.V.
Tel: +31 58 2973333

POLAND | Gacow
Knorr-Bremse Systemy dla Kolejowych Środków Lokomocji PL Sp. z o.o.
Tel: +48 12 2609610

ROMANIA | Bucharest
Knorr-Bremse SRL
Tel: +40 37 4005155

RUSSIA | Moscow
Knorr-Bremse Systeme für Schienenfahrzeuge GmbH
Representation Office Russia
Tel: +7 495 7390113

SOUTH AFRICA | Johannesburg
Microelettrica Scientifica (PTY) Ltd
Tel: +27 11 7943330

SOUTH AFRICA | Spartan
Knorr-Bremse S.A. Pty. Ltd.
Tel: +27 11 9617800

SPAIN | Madrid
Merak Sistemas Integrados de Climatización, S.A.
Tel: +34 91 1459400

Sociedad Española de Frenos Calefacción y Señales, S.A.
Tel: +34 91 1459400

SWEDEN | Lund
Knorr-Bremse Nordic Rail Services AB
Tel: +46 46 329350

SWITZERLAND | Niederhasli
Oerlikon-Knorr Eisenbahntechnik AG
Tel: +41 44 8523111

UNITED KINGDOM | Derby
Sydac Ltd.
Tel: +44 1332 299600

UNITED KINGDOM | Melksham
Knorr-Bremse Rail Systems (UK) Ltd.
Tel: +44 1225 898700

»America

BRAZIL | São Paulo
Knorr-Bremse Sistemas para Veículos Ferroviários Ltda.
Tel: +55 11 56811129

CANADA | Kingston
Knorr Brake Ltd.
Tel: +1 613 3894660

USA | Randolph
Microelettrica USA LLC
Tel: +1 973 5980806

USA | Watertown
New York Air Brake Corporation
Tel: +1 315 7865200

USA | West Chicago
Anchor Brake Shoe Company
Tel: +1 630 2931110

USA | Westminster
IFE North America LLC
Tel: +1 410 8751468

Knorr Brake Corporation
Tel: +1 410 8750900

Merak North America LLC
Tel: +1 410 8750900

»Asia | Australia

AUSTRALIA | Adelaide
Sydac PTY Ltd.
Tel: +61 8 82393600

AUSTRALIA | Granville, NSW
Knorr-Bremse Australia Pty Ltd.
Tel: +61 2 88636500

AUSTRALIA | Wetherill Park, NSW
Sigma Air Conditioning Pty. Ltd.
Tel: +61 2 98270000
Sigma Transit Systems Pty Limited
Tel: +61 2 98270000

CHINA | Beijing
Knorr-Bremse CARS LD Vehicle Brake Disc Manufacturing (Beijing) Co., Ltd.
Tel: +86 10 51010999

Knorr-Bremse Nankou Air Supply Unit (Beijing) Co. Ltd.
Tel: +86 10 52726100

Knorr-Bremse Systems for Rail Vehicles (Suzhou) Co. Ltd.
Beijing Office
Tel: +86 10 68029088

CHINA | Guangzhou
Westinghouse Platform Screen Doors (Guangzhou) Ltd.
Tel: +86 20 39221333

CHINA | Hong Kong
Knorr-Bremse Asia Pacific (Holding) Ltd.
Tel: +852 36579800

CHINA | Qingdao
IFE-VICTALL Railway Vehicle Door Systems (Qingdao) Co., Ltd.
Tel: +86 532 87938512

CHINA | Shanghai
Merak Railways Technologies (Shanghai) Co., Ltd.
Tel: +86 21 51928000

CHINA | Suzhou
Knorr-Bremse Systems for Rail Vehicles (Suzhou) Co., Ltd.
Tel: +86 512 66165666

CHINA | Wuxi
Merak-Jinxin Air-Conditioning Systems (Wuxi) Co., Ltd.
Tel: +86 510 85583133

INDIA | Faridabad
Knorr-Bremse India Private Ltd.
Tel: +91 129 4191402

JAPAN | Tokyo
Knorr-Bremse Rail Systems Japan Ltd.
Tel: +81 3 33462620

KOREA | Seoul
Knorr-Bremse Rail Systems Korea Ltd.
Tel: +82 2 22805555

SINGAPORE | Singapore
Knorr-Bremse Asia Pacific (Holding) Ltd., Singapore Branch
Tel: +65 6848 7291

TAIWAN | Taipei
Knorr-Bremse Asia Pacific (Holding) Ltd., Taiwan Branch
Tel: +886 2 33223355

KNORR-BREMSE

IFE Innovations For Entrance Systems

merak

SIGMA

Microelettrica Scientifica

WESTINGHOUSE platform screen doors

NEW YORK AIR BRAKE

ZELISKO

SYDAC

RAILSERVICES

This publication may be subject to alteration without prior notice. A printed copy of this document may not be the latest revision. Please contact your local Knorr-Bremse representative or check our website www.knorr-bremse.com for the latest update. The figurative mark „K“ and the trademarks KNORR and KNORR-BREMSE are registered in the name of Knorr-Bremse AG. Copyright 2012 © Knorr-Bremse AG. All rights reserved. Including industrial property rights applications. Knorr-Bremse AG retains any power of disposal, such as for copying and transferring.

EACH TRAIN JOURNEY STARTS WITH AN ENTRANCE SYSTEM



A CRUCIAL 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 essential 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 technology. 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 a 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 and 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 mechanism with minimized cross section
- Electric drive

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 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

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

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

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

DETECTION SYSTEMS

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