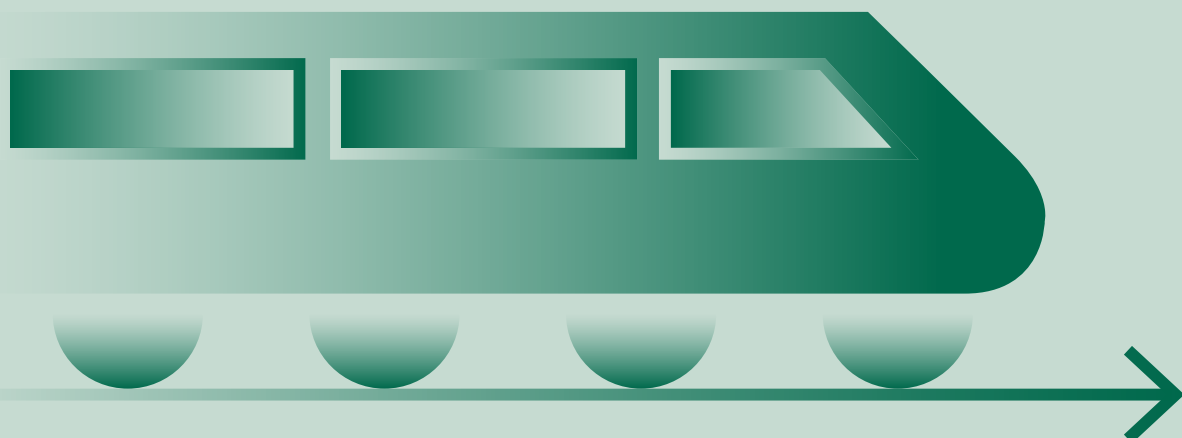


SYSTEMS FOR RAIL VEHICLES



dowaldwerke



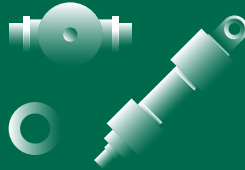
PARTNER FOR THE RAILWAY INDUSTRY

For more than 100 years Dowaldwerke is partner for the well-known European railway manufacturers and their sub-suppliers. All our products have a long tradition and have been developed further in line with the technical progress. Today our program includes vacuum toilet systems, grey water systems, urinals, interior door systems, fire protection systems and access systems.



PROJECT MANAGEMENT

We follow the project plans as agreed with our customers, execute them on schedule, update them if necessary and maintain them after the end of serial production.



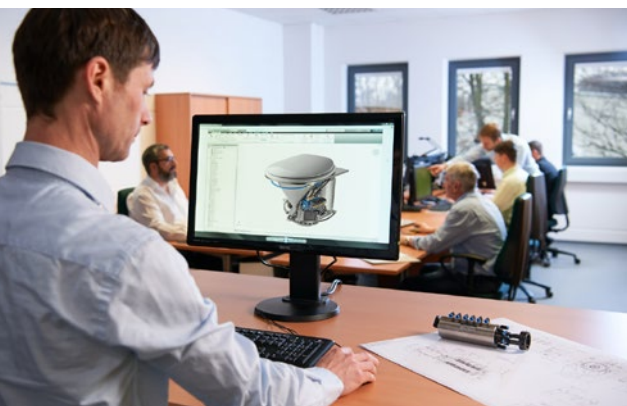
COMPLETE SYSTEMS

We provide complete systems, consisting of the assembly and the control equipment including hard- and software and the link to the train bus system.



OUR QUALITY STANDARD

As a company certified according to IRIS and ISO 9001 we have committed to act according to our quality management system.



DEVELOPMENT AND DESIGN

We employ a large part of our resources in design and development of our products. Our team includes design engineers, hard- and software-developers, mechatronic engineers and service technicians. In this way we are able to comply with customer-specific requirements and to react promptly to developments in the market as well as to new customer requirements.

PRODUCTION

A high in-house production depth is part of our strategy. This enables us to bring specific requirements quickly into serial production. We are in the position to produce all basic components of our products with own resources.



TESTING AND VALIDATION

For any of our products we operate test facilities or we configure and build them according to own or project-specific requirements. We perform endurance tests, series-accompanying testing and final tests, which secures a minimum failure rate.



PRODUCT RANGE

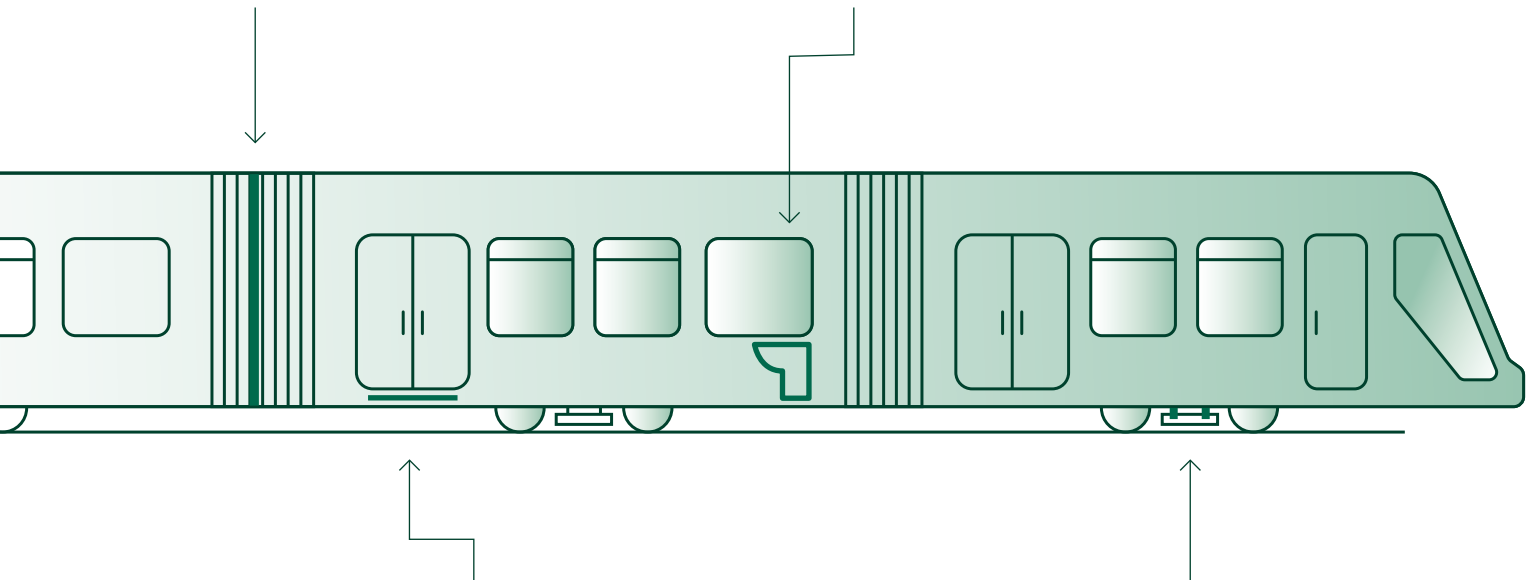
INTERIOR DOOR SYSTEMS

Door guides and door systems as well as compartment and engine room partitions by Dowald meet all requirements of the rail vehicle industry. Dowald equips regional train vehicles, streetcars and high-speed trains.



SANITARY SYSTEMS

Dowaldwerke has more than 20 years of experience in developing and manufacturing vacuum toilet systems for railway rolling stock. Our system includes the toilet itself together with the control unit with hard- and software and the cabling.



ACCESS SYSTEMS

Dowald designs and produces customer-specific entrance systems for rail vehicles. This equipment is available for in-floor and underfloor installation.



SPARE PARTS

We provide spare parts for trains in serial production and for an agreed period after the end of serial production.

A POWERFUL GROUP OF COMPANIES



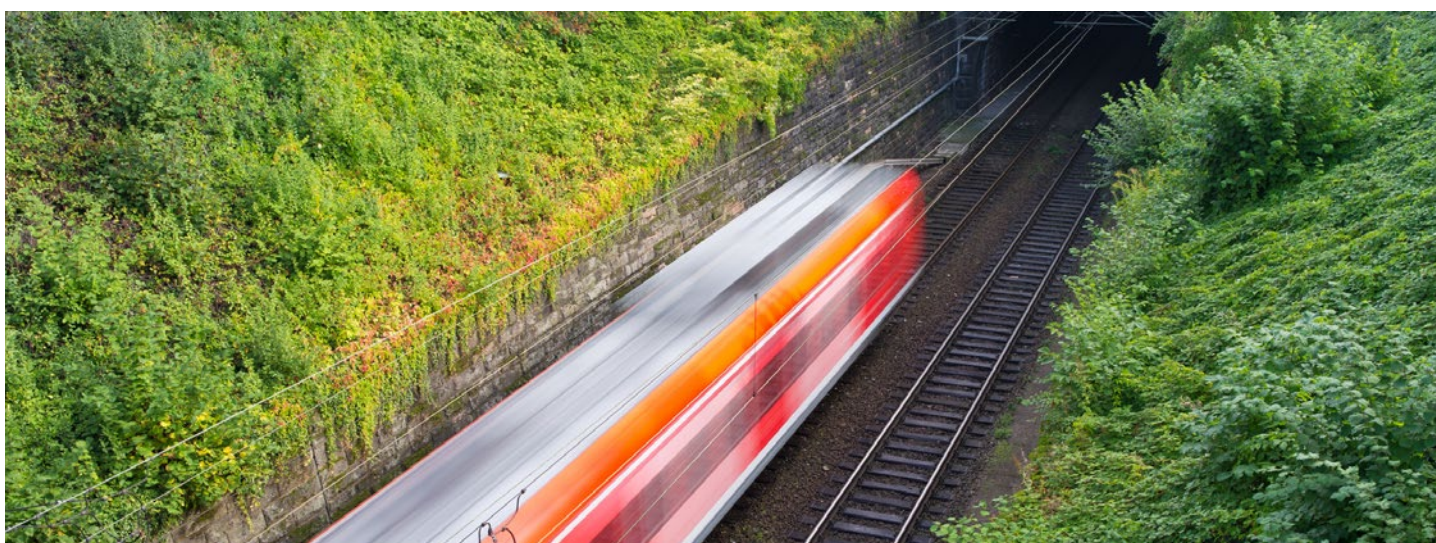
Dowaldwerke GmbH is a subsidiary of the Richard Griessbach Holding, an owner-managed medium-size group of companies with about 350 employees.

Within the Griessbach Group Dowaldwerke develops, designs and manufactures vacuum toilets access systems and interior door systems. The different subsidiaries in our group own the resources that enable us to provide the complete systems the market requires. As a result we can supply the assembly including the control equipment consisting of hard- and software.



PROJECTS

Alstom Coradia Meridian, Alstom Coradia LINT, Bombardier TWINDEXX, Bombardier M7, Siemens/Bombardier ICE X, Siemens Desiro ML, Siemens Velaro, Siemens Hi Next, Stadler KISS, Stadler FLIRT, Stadler FLIRT3



CONTACT

Dowaldwerke GmbH
Industriering 8-12
D-01744 Dippoldiswalde

Tel: +49 (0) 3504 6468 0
mail@dowaldwerke.de
www.dowaldwerke.de