



**RAIL SOLUTIONS**

# Making your Trains Fit for the Future

GEZ Rail Solutions



# GEZ Rail Solutions

At the heart of the world of technology

## HIGH-VOLTAGE COMPONENTS

Switching currents safely



## DRIVER'S DESK AND CAB

Fully integrated



## AIR CONDITIONING

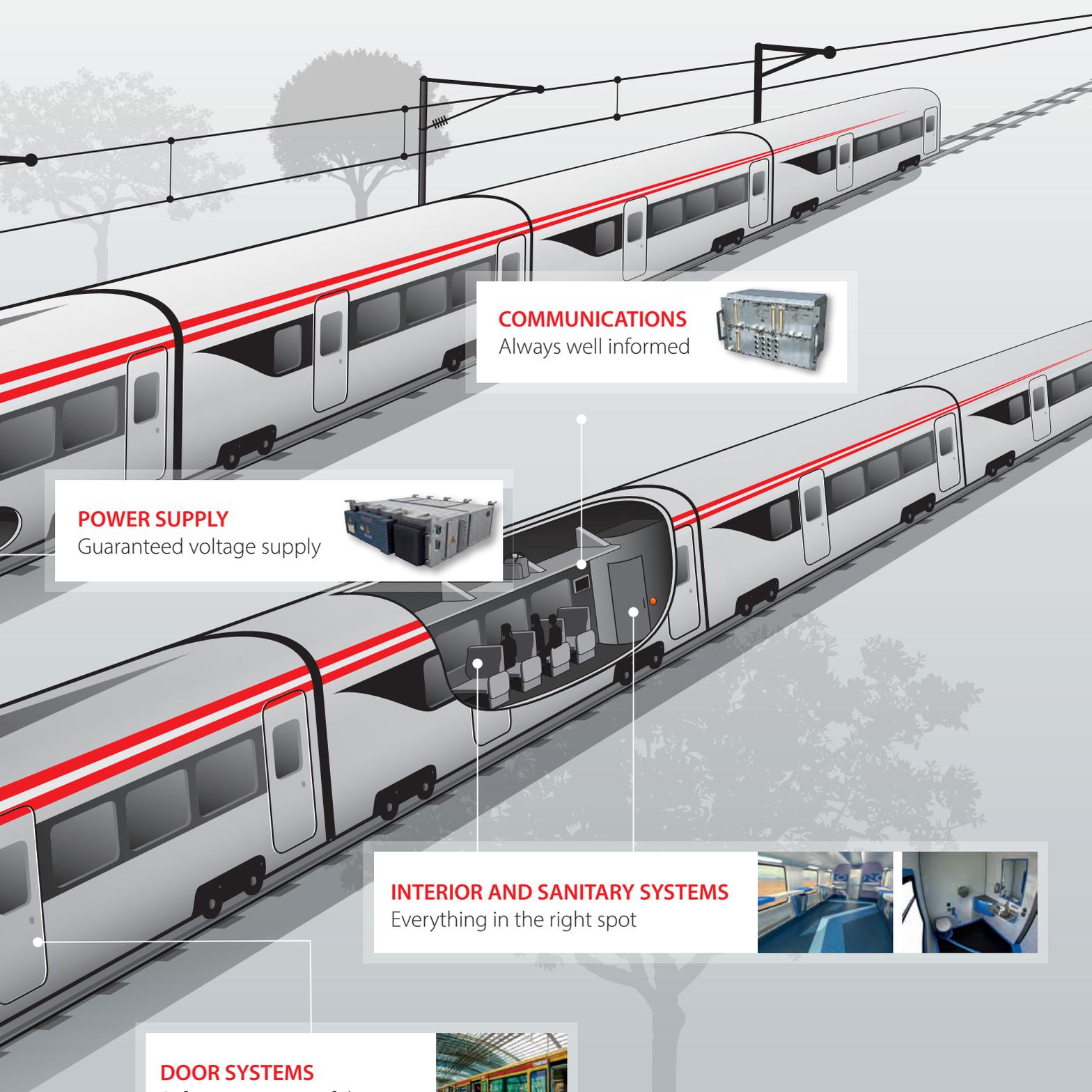
Ideal temperatures



## LIGHTING SYSTEMS

To see and to be seen





**COMMUNICATIONS**  
Always well informed



**POWER SUPPLY**  
Guaranteed voltage supply



**INTERIOR AND SANITARY SYSTEMS**  
Everything in the right spot



**DOOR SYSTEMS**  
Safety every step of the way



# Shaping the Transport Technology of Tomorrow

Comfortable, safe and efficient



## Complete Modernization

Pioneering technology from A to Z

The question of the future of existing trains often arises after only half of their service life. Ever shortening innovation cycles, especially in the field of electronics, make intermediate technical optimisation of the vehicles imperative; modernization is increasingly carried out much earlier, long before the end of the originally planned operating period. When that time comes, GEZ GmbH provides its customers with a comprehensive range of the necessary components, systems and services for a complete modernization of their trains.

Thanks to our diverse corporate background, we are able to handle even very large orders reliably and to secure all the necessary products and services for our customers, both today and in future.



## Detail Modernization

Upgrading systematically

Very often small, targeted changes can achieve a major effect. Your existing trains will be given a new, modern appearance and will fulfil the latest technical standards. GEZ GmbH provides its customers with optimal individual solutions, covering every area of expertise. These include:

- > Retrofitting electrically driven doors to replace pneumatic door systems
- > Retrofitting air conditioning systems and adapting the on-board power supply
- > Upgrading driver's cabs and equipment to the state-of-the-art
- > Substitution of control systems
- > Replacement of individual components, large assemblies or complete technical areas, in case of obsolescence



## Service

At your disposal, both today and in future

Our customers value in particular the associated services we provide when modernizing their trains. GEZ GmbH is a proven, reliable partner, providing all of the services necessary for train modernization, conveniently from a single source.

Customer training, maintenance and repair services, as well as expert advice on all issues concerning the modernization of trains are all part of our standard service. For example, in addition to providing maintenance work on door systems, we also service air conditioning systems and carry out major inspections. Contact us - we would be pleased to assist you with professional advice and reliable services.

## Company Profile

### Making your trains fit for the future

The term “refurbishment” covers the modernization of entire rail vehicles or their components. In order to provide services to make trains fit for the future, the Schaltbau Group bundled its modernization and renovation activities into one company: GEZ GmbH. Founded in 2016 in Dinslaken, it is a wholly-owned subsidiary of Schaltbau Holding AG, a publicly listed company group based in Munich.

GEZ GmbH has access to the extensive product portfolio of the entire Schaltbau Group, which covers numerous areas, ranging from auxiliary power converters to air conditioning systems, toilets, door and boarding systems to complex interior elements, cab equipment, to name but a few. Based on this solid foundation, the company develops and engineers customer-specific modernization and retrofitting solutions, which can be integrated into existing vehicles and operator concepts, and subsequently implements them.

As a part of the history of a successful enterprise, GEZ GmbH is making an important contribution to the future. It considers itself to be a modern link in the history of Pintsch Bamag Antriebs- und Verkehrstechnik GmbH (power supply, lighting and control systems) founded in 1843, Schaltbau GmbH (heating, high-voltage and low-voltage equipment) founded in 1929, as well as Gebr. Bode GmbH & Co. KG (door and boarding systems) founded in 1968, drawing on the many years of experience accumulated in this powerful group and incorporating it into today’s modernization concepts.

## Range of Products and Services

### Proactive thought and action

There are various reasons for modernizing rail vehicles; frequently a cost-effective solution is needed, avoiding investment in new vehicles, or pushing that investment into the future. In addition, technical improvements and lower susceptibility to failure are important factors that favour the refurbishment option.

Ultimately, it is all about giving trains a new future.

The spectrum of modernization offered by GEZ GmbH ranges from a carbon copy replacement solution in case of obsolescence, to the modernization of individual products or systems, through to entire vehicle modernization.

Contact us and we will be pleased to show you how to economically provide your trains with a safe, modern future!

We work in close cooperation with our customers to develop tailor-made solutions for integration into existing vehicles and operator concepts.



**GEZ Rail Solutions GmbH**

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