



# Our wide range of services for your components

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DB Fahrzeuginstandhaltung GmbH | InnoTrans 2024

# Our large component portfolio



Safety and quality are our top priorities – by focusing on vehicle availability, we are making a sustainable contribution to transport growth. DB Fahrzeuginstandhaltung is your experienced partner in the maintenance of components from market-leading manufacturers.

Our wide range of services includes, among other things, **maintenance of the following components:**

- Brakes
- Electronics
- Power packs
- Air-conditioning systems
- Compressors
- Couplers



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A close-up photograph of a male mechanic wearing safety glasses and gloves, working on a brake component. The background is a blurred workshop with red storage bins. The text 'Brake components' is overlaid in white, bold font, with a horizontal line underneath it.

# Brake components

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# Our expertise for your brake components



## Services

- Inspections & test dismantling
- Overhaul, repair, modernisation and inspection of mechanical, pneumatic and electropneumatic brake components, as required
- Consulting for complete systems
- Flexible warehouse and logistics concepts
- Authorised test workshop for non-destructive testing
- Qualification of systems used for maintenance

## Component portfolio

- Mechanical, pneumatic and electropneumatic brake components from all common manufacturers
- Driver's brake valves
- Control and relay valves
- Electromagnetic valves
- Brake equipment panels and brake racks
- Brake cylinders and brake callipers
- Block brake units
- Other air-ducting and pneumatic components

## Customer benefits

- In-depth knowledge and years of expertise in the overhaul and reconditioning of brake components
- On-site service for swift corrective maintenance
- High vehicle availability
- Best possible use of operational brake components by keeping to maximum storage periods
- Option of storage in our facilities or yours
- Short reconditioning times through strict schedule

# Further information

DB Fahrzeuginstandhaltung  
**Brake components**



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# Electronics repairs

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# Electronics repairs for your components

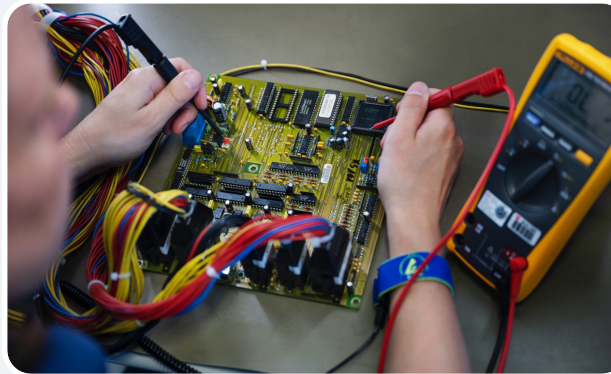


## Services



- Repair and maintenance of electronic components
- Obsolescence management
- Obsolescence risk analyses & annual monitoring
- Lifetime buy
- Substitution and adaptation
- Reproduction / redesign
- Proactive maintenance
- Old parts management

## Component portfolio



- Control electronics
- GSM-R on-board units
- Controls
- Electromechanical components
- Passenger information system, diagnostics and **EBuLa** (electronic working timetable and speed restriction display system)
- On-board electronics
- Historical electronic components
- Linear and intermittent automatic train control components

## Customer benefits



- Guaranteed availability of electronic components
- Option of provisioning using suitable long-term storage technologies
- Longer service life of electronic components
- Increased vehicle availability
- Higher-quality part and component replacements

Photos: © DB Fahrzeuginstandhaltung/Max Lautenschläger

# Further information

DB Fahrzeuginstandhaltung  
**Electronics repairs**



Power electronics



Control electronics

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# Power packs

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# Power pack maintenance, modernisation and optimisation



## Services

- Drive modules, including small engines, diesel engines, cardan shafts, couplers, cooling systems, hydrodynamic transmissions
- Small and sub-components, such as turbochargers, crankshafts, crankcases, camshafts, pumps, oil burners and heaters
- Machining of reusable components, such as cylinder heads
- Testing of electronically and mechanically-controlled engines
- Thermal spraying



## Customer benefits

- Dismantling of your components into their individual parts
- Individually agreed services for precise and professional overhauls
- Installation and commissioning
- **7 test rigs for engines and drive systems with up to 3,300kW power** for testing and documenting comprehensive performance parameters
- Boring machines, milling machines and lathes, thermal spraying, welding and thermal fitting, blasting, painting, injector test rigs, electrical workshops



Photos: © DB Fahrzeuginstandhaltung/Max Lautenschläger

# Further information

DB Fahrzeuginstandhaltung  
**Power packs**



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The image shows two male technicians in an industrial environment, likely a factory or workshop. They are both wearing dark blue caps, safety glasses, and orange high-visibility vests over dark grey t-shirts. The technician on the left is kneeling and using a multimeter to test a component of a large, dark-colored HVAC unit. The technician on the right is leaning over the unit, observing the work. The background features yellow metal railings and blue structural elements of the facility. The text 'HVAC systems' is overlaid in the center in a large, white, sans-serif font, with a short white horizontal line centered below it.

# HVAC systems

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# Your HVAC specialist



## Services

- Condition evaluation
- Preparation of evaluation and condition reports
- Vendor-agnostic HVAC system and component repairs based on findings or maintenance level
- General overhaul
- Retrofitting projects, including the retrofitting of systems for alternative refrigerants
- Efficient HVAC inspection
- Mobile service teams
- Optimisation of existing systems
- Design and implementation

## State-of-the-art testing equipment

- Leak testing of entire refrigeration circuit
- Monitoring of possible pressure rise times including vacuum stoppage monitoring
- Complete functional testing of individual components or the entire system
- Electrical testing
  - Current consumption
  - Insulation testing
- Documentation of all test criteria

## Customer benefits

- All maintenance services from a single source
- Efficient inspections through partial automation
- On-site service by mobile teams for rapid corrective and predictive maintenance
- Maintenance on request, including on-site

# Further information

DB Fahrzeuginstandhaltung  
**HVAC systems**



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# Compressors

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# Comprehensive compressor safety



## Services

- Evaluation-based repairs
- Different maintenance levels
- General overhaul
- Condition evaluation
- Preparation of evaluation and condition reports (at customer's request)
- Inspection of systems requiring monitoring in accordance with Section 32 of the German Railway Construction and Operating Regulations (EBO) for pressure vessels in compressed air supply systems

## State-of-the-art testing equipment

- Leak tightness
- Process times
  - Pressure rise times
  - Switching times (air dryers)
- Process pressures
- Oil quantity in compressed air
- Process temperatures
  - In assembly
  - Air generated
- Flow rates/volume flows
- Pressure dew point
- Electrical testing
  - Current consumption
  - Insulation testing
- Unbalanced mass compensation on motors

## Customer benefits

- All maintenance services from a single source
- Efficient inspections through partial automation
- Maintenance of diverse compressor types with appropriate maintenance documentation

DB Fahrzeuginstandhaltung  
**Compressors**

**Please contact us for more information!**

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# Couplers

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## Services

- **Overhaul** of couplers of all kinds for all common classes
  - Dismantling of coupler into sub-assemblies
  - Cleaning and inspection of individual assembly components
  - Repair and mounting of assemblies
- Spare and replacement parts according to manufacturer specifications depending on the coupler overhaul period
- Customised maintenance of individual sub-components to your specifications
- Colouring of all sub-assemblies
- Final inspection
- Accident repairs
  - Dismantling of defective assemblies
  - Cleaning, repair and installation of the individual parts
  - Final inspection



# Couplers product range



## Service offered for all common vehicle categories:

- ICE 1 - 4
- Electric railcars & combustion railcars of DB vehicles and third-party customers

### Automatic couplers

Vehicle class ICE

- BR403  
(type 40-1230)

Vehicle class EMU

- BR1440  
(type 010.620)

Vehicle class diesel locomotive

- BR648  
(type 2.010.359)

Coupler types

- Type 10
- Type 35
- Type 330

### Semi-permanent couplers

Vehicle class ICE

- Rigid BR403  
(type 40-1232)

- Sprung BR403  
(type 40-1333)

- Collapsible tube  
BR403/406  
(type 40-1234)

Vehicle class diesel locomotive

- Collapsible tube  
BR620\_622  
(type 010.599)

### Adapter couplers

Vehicle class ICE

- BR412  
(type 010.500)

Vehicle class diesel locomotive

- BR642  
(type 11-76455)

Vehicle class EMU

- BR442  
(type 010.332)

### Electric couplings

Vehicle class ICE

- BR411/415  
(type 40-1211)

Vehicle class EMU

- BR445  
(type 010.498)

Vehicle class diesel locomotive

- BR620\_622  
(type 010.593)

# Further information

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**Couplers**



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