



Our wide range of services for your components

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 technician in a grey work shirt and safety glasses, wearing white gloves. He is focused on working on a mechanical component, likely a brake master cylinder, which is mounted on a workbench. The background is a blurred workshop environment with red and blue elements. The text 'Brake components' is overlaid in white, bold font, with a white horizontal line underneath it.

Brake components

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



Produktvertrieb-FZI@deutschebahn.com

Electronics repairs

Electronics repairs for your components

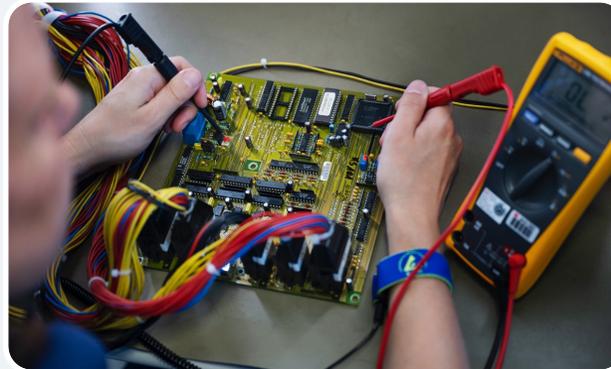


Services



- 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

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Electronics repairs

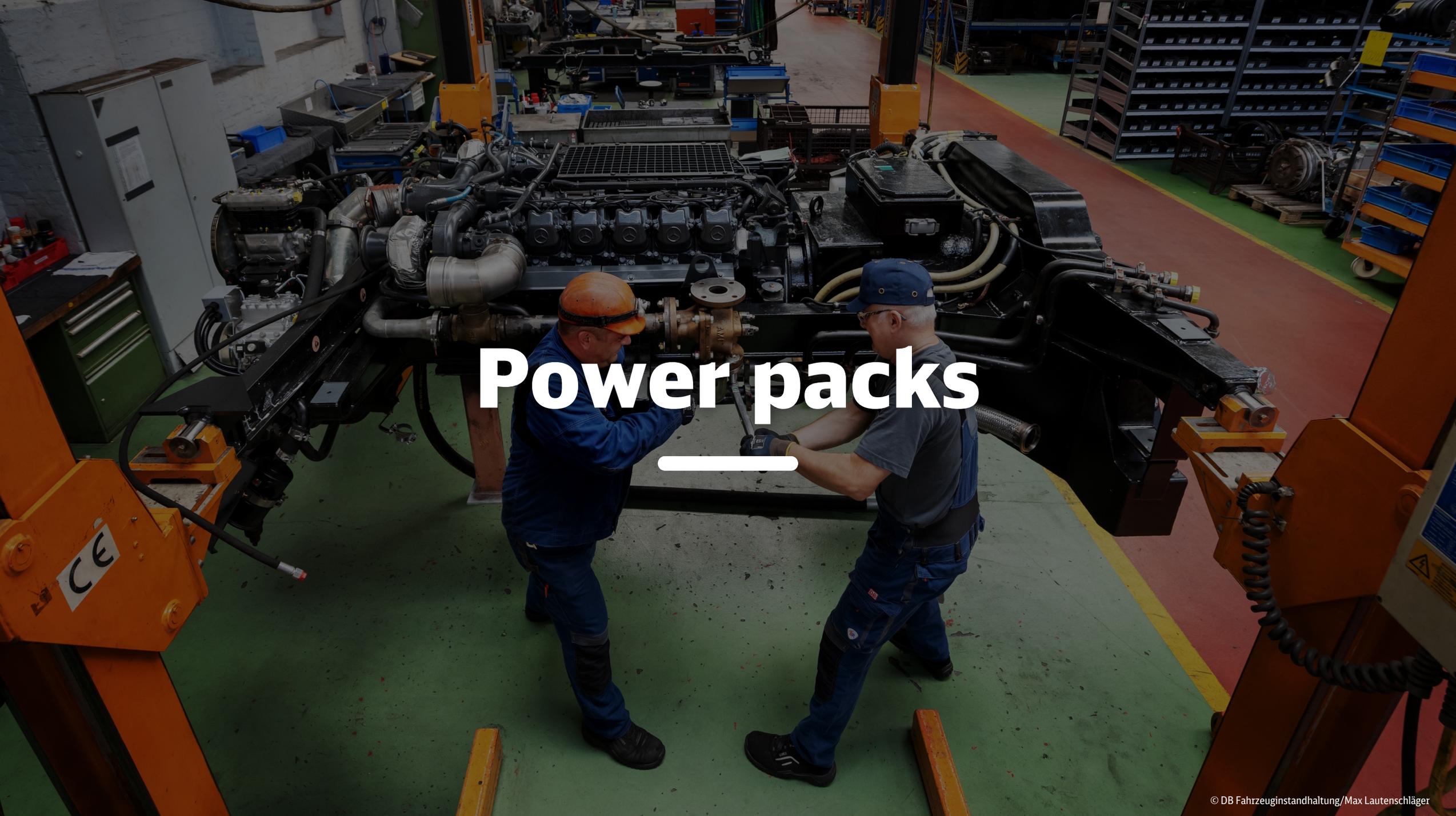


Power electronics



Control electronics

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A high-angle photograph of a workshop where two technicians are working on a large, complex engine. The technician on the left wears a blue uniform and an orange hard hat, while the one on the right wears a grey shirt, blue cap, and blue overalls. They are both focused on a central component of the engine. The workshop is filled with various tools, equipment, and parts, with a green floor and yellow safety markings. The text 'Power packs' is overlaid in the center in a large, white, sans-serif font, with a white horizontal line underneath it.

Power packs

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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HVAC systems

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

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

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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