



MobiFix – Mobile joining technology for efficient vehicle

DB Fahrzeuginstandhaltung

Comprehensive service

Diverse solutions

Superior performance



Competence centre **on over 200,000 m²**

The Krefeld Maintenance Depot has aligned its infrastructure and competency spectrum to cater for the challenges of modern electric multiple units from local and long distance transport. The focus lies on heavy maintenance – general overhauls and other overhauls.

The depot is also specialised in accident repairs of aluminium rail vehicles and in customer-specific refits. Around 1,000 highly-motivated employees with solid expertise, who take great pleasure in the interesting work, ensure that our customers' vehicles are back on the rail in no time. You, too, can benefit from our modern infrastructure and guaranteed compliance with the highest quality and safety standards.

Our infrastructure joining technology:

- Aluminium and steel machining centres with state-of-the-art pulse welding machines
- Certified bonding workshops for glazing rail vehicles
- Workshop for fibre-reinforced plastic (FRP)
- Test rigs and testing machines for ultrasonic and magnetic particle testing

Benefit from our competitive edge.



Latest **technology.** Strong **professionals.**

Core competency – adhesive bonding: certified according to DIN 6701 class A1

Different materials – such as glass, plastic and metal – can often only be combined with the help of bonding technology. Our Krefeld depot uses this state-of-the-art method – and is the first depot of DB Fahrzeuginstandhaltung GmbH to have been certified in the highest class, A1.

Interesting background information: an adhesive-bonded joint cannot undergo 100% non-destructive testing. For this reason, all sources of faults need to be ruled out before the bonding process by way of suitable quality assurance measures. For example, even a dust particle or drops of water can diminish the adhesion. To carry out the standards-compliant bonding work, we have specially trained experts as well as suitably qualified bonding supervisors. Besides supervising proper execution, process control primarily ensures compliance with climatic conditions.

Core competency – FRP: modern lightweight construction in good hands

Professional repair of FRP requires a high degree of functional competency and manual skills. Timely repair is crucial because moisture penetrating the damaged area also damages the fibres, enlarging the repair area considerably.



Convincing **results.**

With more than 25 years of experience in FRP repairs, we offer you:

- Damage assessment and repair offers at short notice
- Mobile repair at your site
- Same standards as in the depot
- Highly-qualified repair team, trained as plastics laminators in accordance with DVS 2220, and trained as Fraunhofer FRP repairers
- Supervisory staff, trained as Fraunhofer FRP specialists

Core competency – aluminium: one material, numerous challenges

In over 30 years, we have built up our reputation as an “aluminium centre of expertise”. Welding repair and corrosion refurbishment of aluminium vehicle bodies are part of our day-to-day work, and we know the thermal challenges posed by this material.

The key differences to steel:

- Considerable shrinking stresses and component distortion through specific material properties.
- Complex bracing devices to ensure that the vehicle body remains in form.
- Depending on the aluminium alloy, the bracing device must remain on the vehicle for several days.



Our mobility **is your advantage**

MobiFix – repairs at your site

The competency bundled at our Krefeld depot is available either stationary or mobile. This means we will gladly come to you with our teams and the necessary equipment. You hereby have zero logistics expenditure and 100% competency on site. Covering accident and/or corrosion damage to steel or aluminium rail vehicles, including bonding or welding work and repairs to fibre-reinforced plastic – our mobile repair service is state of the art.

Self-contained, mobile bonding work station:

- Space for all train variants
- Fully mountable in a short space of time
- Can be individually adjusted for bonding work on both high-speed and local passenger trains and trams
- Integrated professional working platform system
- Fulfils the criteria of DIN 6701
- Air-conditioned, self-sufficient media supply (electricity, compressed air, etc.)
- Special lighting of working environment with 1,000 lux

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