



Injectors for common rail engines: **Reconditioning** guarantees **top quality** and **cost savings**

By reconditioning common rail injectors, DB Fahrzeuginstandhaltung is making its contribution to the environmentally friendly and resource-saving use and operation of diesel engines at the maintenance depot Bremen. With its state-of-the-art technology, the maintenance depot offers an economically remarkable alternative to engine manufacturers' products.



Background

Like other engine components, common rail injectors are subject to constant wear. Due to the high injection pressures in a common rail system, injectors have to be replaced periodically or reactively so as to prevent massive consequential damage to engines. Hence this is necessary several times over the lifetime of an engine, resulting in high costs for owners and operators of vehicles as there has been no alternative to the remanufactured injectors of the well-known engine manufacturers up to now.

Our offer

DB Fahrzeuginstandhaltung reconditions injectors using the necessary procedures at the Bremen maintenance depot and then carries out a comprehensive analysis. During reconditioning, the injectors are thoroughly cleaned, tested and measured and all wear parts are replaced. Using special software, the injector setting dimensions are



measured by our in-house experts to ensure compliance with tolerances before being compared with target values. The reconditioned injectors are subject to strict quality control so as to ensure consistent reliability throughout their entire service life.

Quality inspection and certificate

The final comprehensive quality review of the specially designed injector test bench records all relevant parameters at the operating pressures specified by the system and stores them digitally. On request, the customer can receive a test report for each injector which includes all quality-relevant parameters for inspection.

Services in detail

Reconditioning of the injectors includes:

- comprehensive ultrasonic cleaning
- computer-aided measuring of all relevant injector setting dimensions
- replacement of critical components, including
 - shims calculated and checked by the software,
 - checking the actuator solenoids
 - replacing the injectors with new parts, including the injector needles
- replacing all wear materials and elastomers

- testing of all critical parameters at different operating pressures, including logs (in digital format as well, if so required)

The test log documents:

- the injection volume (mm³/stroke)
- the return flow volume (mm³/stroke)
- the reaction times of the injector needle and solenoid valve, as well as their closing and opening times

The test specifications are based on professional discussions and cooperation with well-known maintenance companies and manufacturers of state-of-the-art injectors and test benches that meet our quality requirements.

The benefits for you

The DB Fahrzeuginstandhaltung Bremen maintenance depot is one of the leading providers of reconditioned injection system components and offers you the following advantages:

- A product guaranteed to be at least as good as a reconditioned injector from an original equipment manufacturer – thanks to strictly controlled testing of each individual injector
- Short reaction times thanks to high numbers of replacement components always being available
- Significant cost savings when reconditioning, compared to manufacturer prices
- You will also receive a comprehensive test report on delivery.
- In-house technical experts are available for you to contact and will professionally address any concerns you may have.

Contact

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