

DSR **//X**

Workshop Injector Test Benches



OVERVIEW

DSR ///X | GDR ///X

Workshop Injector Test Benches

One Platform, Two Systems

The **DSR-X** and **GDR-X** share a single air-driven bench-top platform. The **DSR-X** tests diesel common-rail injectors to 2,200 bar; the **GDR-X** tests gasoline direct injectors to 450 bar. Same chassis, same software, same footprint, you choose the system your workshop actually services.

Air-driven high-pressure pump
runs from standard workshop air; no three-phase installation

6,500+ part numbers
in the factory database, updated online



THE SHARED PLATFORM

- **Compact bench-top chassis:** 510 × 780 × 780 mm @40Kg;
- **AZO v3 operating system** on a 10" Android HMI, guided test procedures, live response-time measurement
- **CloudX connected:** results encrypted and cloud-stored, GDPR-compliant
- **Spring-loaded injector holder** with fully adjustable height and fast clamping
- **Universal fittings and adapters** - 2-year full warranty worldwide

WHERE THEY FIT

- Built for the workshop that services passenger cars and light-duty vehicles daily and needs measured, professional results without the investment of a specialist or flagship bench.
- **These benches test.** Full injector servicing, coding, heavy-duty systems and multi-injector throughput are handled by the specialist ranges.
 - **Upgrade path:** CTBR-X / ITBR-X for diesel CRDi coding GTBR-X for 4-injector GDi.

Database continuously updated to new EU6 applications.

One platform. Diesel or Gasoline. Professional injector testing at workshop investment.



FEATURES

DSR-X: Diesel Common-Rail Injectors

- **All CRi brands and types:** Bosch CRi1/2/3, Denso G2/G3/G4, Delphi DFI, Schaeffler / Continental, plus CRIN light-duty
- **Up to 2,200 bar:** passenger car and light-duty common-rail envelope
- **EU6 technologies supported:** VCC, NCC, iART, PCRS5
- **6 – 12 minutes per injector**

TESTS PERFORMED

- Electrical (coil / piezo) • Insulation • Back-leak (static / dynamic) • Volumetric flow (all conditions) • Nozzle opening pressure (aNOP) • Nozzle response time (RSP) • EU6 technology testing • NLT / LKT nozzle leak • Spray pattern & atomization

FEATURES

GDR-X: Gasoline Direct Injectors

- **All GDi brands and types:** Bosch HDEV, Denso, Delphi, Schaeffler / Continental, Hitachi-HTC, Magneti Marelli
- **Up to 450 bar:** passenger car and light-duty GDi envelope
- **GDi Piezo capable:** Energy-Controlled signal support
- **Integrated cleaning:** pressurized reverse flush at 35 bar and optimized ultrasonic-cleaning actuation
- **5 – 7 minutes per injector**

TESTS PERFORMED

- Electrical (coil / piezo) • Insulation • Volumetric flow (all conditions) • Back-leak (static / dynamic) • Nozzle Leak Test (NLT) • Nozzle response time (RSP) • Spray pattern & atomization • Reverse flushing at 35 bar



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