

**Z-CODR**

**SPECIALIST SOLUTIONS**

## **Diesel Injection Systems**

Innovative, compact and professional  
solutions for every workshop to test  
& service Diesel Injection Systems

## Z-CODR

Carbon Zapp's Innovative tablet provides the information for every workshop using a Standalone or Conventional Test Bench out in the market to utilize the test plans and database and finally the Coding capability for all Makes and Types of Diesel Systems in the market.

new



### The Affordable Coding Solution for Everyone

Includes OEM Database and Test Plans for all Types and Makes of Injectors & Pumps in the market (Testing Capability and precision is only as accountable as the unit tested on)

Provides a comprehensive Coding Solution for every Test bench. (Coding correctness and accuracy is only as accountable as the unit tested on)

Test plans for NEW Generation CRI3-25 and CRI3-27 injectors with NCC and VCC technology

Test plans for EU5 and EU6 systems testing [Denso I-Art (6-pin), VDO, etc...]

Injector Coding VDO IIC, Delphi C2i/C3i, Bosch IMA/ISA and Denso QR

All Makes/Types of CR pump. Special Applications CP4/ CAT/ CB18/ CB28/ CP2 etc...

Blue Limits Diagnosis for Diesel Specialists

# CZ Technologies

## Tests Performed

### R2LC

Electrical actuator test for k $\Omega$ / $\mu$ F,  $\Omega$ / $\mu$ H

### CFL

Check For internal and external Leaks

### NLT

High Pressure Nozzle Leakage

### LKT

Static Back Leakage (Overflow) measurement

### aNOP

Automatic Nozzle Opening Pressure

### iVM (FL, PL, EM, LL, PI)

Injector Volume Measurements (full-load, part-load, emissions, low-load, pre/post-injection.)

### iVM-aDFi

Injector Volume Measurement Performance Ramp (multiple testpoints slope / different Pressure points)

### RSP

Injector Nozzle Response Time

### BIP [ EUI / EUP systems ]

Injector / Pump Control Valve Response Time for Unit Injection Systems

### SPR

Dynamic Spray Test performed in all testing conditions up to 2800Bar

### Extra Tests

High pressure Control Valve operation (DRV, IMV, VCV, PCV, etc...) High Pressure Sensor reaction, High Pressure relief safety valve operation CR Pump flow limiter valve operation (ZME, IMV, SCV.)

### MIM

Multiple Injection Metering (up to 8 fully programmable delay and overlap times)

## Features

### AZO Software

Advanced Android based HMI/PC, Wi-Fi printing, sharing, syncing, software/ hardware & database updating, via USB or Wi-Fi, Real-time Oscilloscope and CSV data export

### Reports

Easy fail-track color report for each component tested. Single-page Quick report or Multi-page Analytic reporting

### aMACC Flushing / Cleaning function

Automatic chemical treatment and flushing of the injector before testing under high pressure and using a specially formulated detergent

### RSP / BIP

Response Sensor (RSP) adaptable to all Injector Nozzles

Response Sensor (BIP) adaptable to all Control Valves [EUI/EUP].

Precise measurement of Control Valve & Nozzle reaction time to easily diagnose a slow acting injector, a retarded injection event, poor engine performance and emissions issues."



1. BK



2. DFAP

## Electronic Measurement

1. Dynamic Electronic Mass Measuring Sensor (BK). Ramp function capable for aDFI function, injector Coding Capable, Acc:0.2%FS, repeatability: 0.05%. Fast and Accurate Measurement with Coriolis technology
2. Static Electronic Mass Measuring Sensor (DFAP) Acc: 0.6%FS, Accurate and Repeatable Measurement with Differential Absolute Pressure Technology



**CARBON ZAPP**

INNOVATION DRIVEN

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