




**BCR-KIT**

**SPECIALIST SOLUTIONS**



**Diesel Injection  
Systems**

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



## **BCR-KIT**

Test bench Common Rail Kit. The unique, compact and Universal solution for every Conventional Test Bench in the market to operate with the latest technology CR injectors, HEUI Injectors, GD*i* injectors and CR pumps.

Easy Clamp-on for 4 CR*i* injectors / 4 CR*i*N / 4 GD*i* / 4 HEU*i* (17-19-21-24mm) or 1 CRp

Conventional Testbench base bolt-on feature

Clear protective hood with safety switch

High Pressure Rail - 2800Bar, HP pressure regulator & sensor

4 x HP flexible hoses 3000Bar with 90-degree swivel & accumulator

1 x HP flexible hose 3000Bar with 90-degree swivel & accumulator for CR pump

4 x Led illuminated adjustable Spray Chambers

Connects to any CRD*i* Simulator.  
Recommended for TBCR operation



# 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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**Production Plant**

364 Varis-Koropiou Ave. Koropi  
194 42 Athens, Greece

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**Headquarters**

A.I.S. GmbH  
75438 Knittlingen, Germany

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**email** [contact@carbonzapp.com](mailto:contact@carbonzapp.com)

**tel** +30 210 9856110

**fax** +30 210 9928655

[carbonzapp.com](http://carbonzapp.com)