

CRU.4R

CRDI SOLUTIONS

Diesel Injection Systems

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

CRU.4R

Common Rail Revolutionary testing solutions for BOSCH, DELPHI, DENSO and VDO, Heavy Duty and Light Duty applications. All types Piezo, Solenoid & Dual-Solenoid actuators.

Standalone Air Driven Bench

High Pressures 2800 bar

NVcT: VCC / NCC / EU6 Needle

Control Testing CRS.3-27 / CRS.2-25

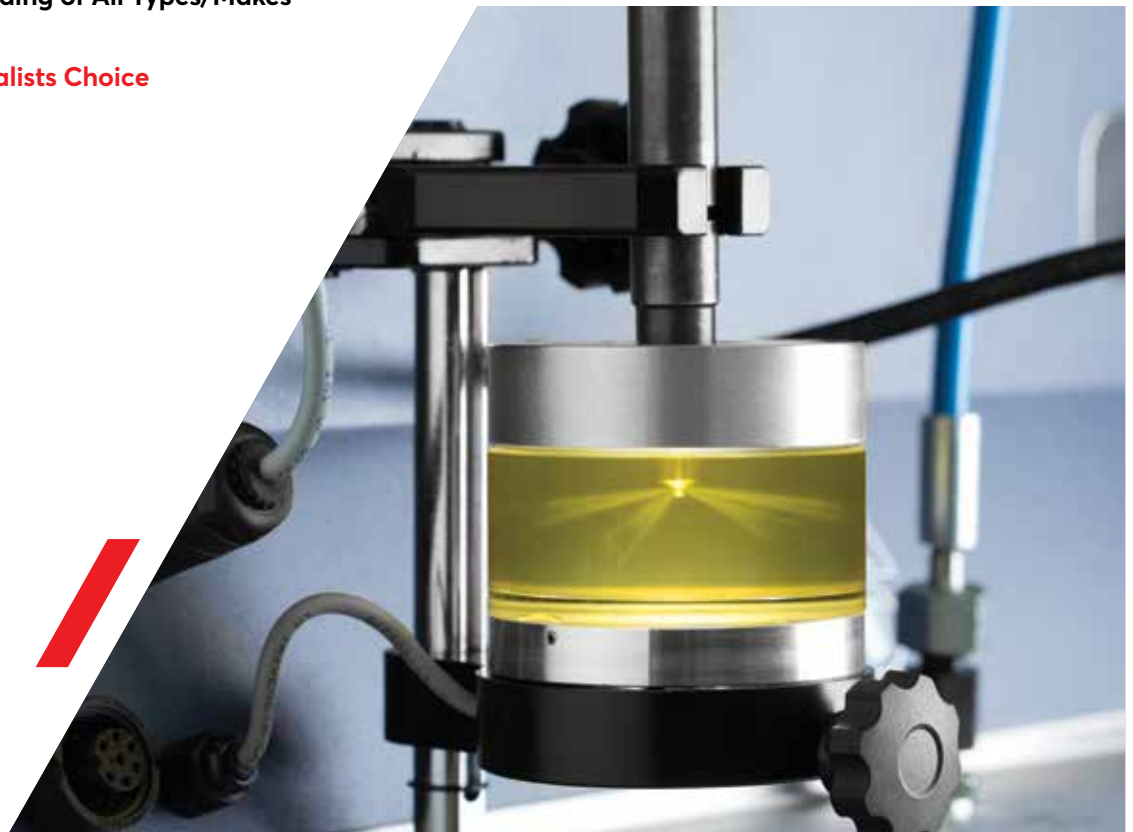
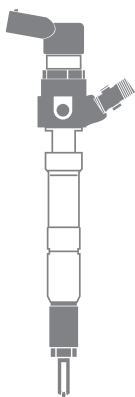
/ i-Art and more Capable

Compact Size for Every Laboratory

Fully Automatic and Fast Testing

Testing & Coding of All Types/Makes

Diesel Specialists Choice



VDO
Authorized



CRU.4R

Compact Diesel Common Rail Test Bench for 4 CRi(N) / 2 CRiN
4.2 solenoid or piezo injectors in under 25min.

High Pressure Testing up to 2800Bar (EU6) with only 6.5 Bar Air supply input

VDO CR injectors (EU5) testing only with approved Energy Control by **VDO**

Tests New EU6 Generation CRI3-25, CRI3-27, Denso I-Art(6-pin) and more with NCC and VCC technology

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

Nozzle reaction time measurement for all systems via RSP sensor

Efficient Working Area with Protective Hood fully opening

The fastest and easiest clamping of injectors in the market

Controls all Types and Makes of Injectors. Includes OEM Database and Test Plans

Fully Automatic and fast testing phase through a 10" Touchscreen HMI with AZO software

CRDi Piezo Stack Regeneration function (wake-up)

Blue Limits Diagnosis for Diesel Specialists

Dynamic Electronic Mass (BK) Measurement

Connects to Carbon Zapp's HUIR solution for testing HEUI Systems

Dual System - Flushing / Cleaning system using detergents and Ultrasonics

Emergency Safety Stop function



VDO
Authorized



CZ Technologies

Tests Performed

R2LC

Electrical actuator test for k Ω / μ F, Ω / μ 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

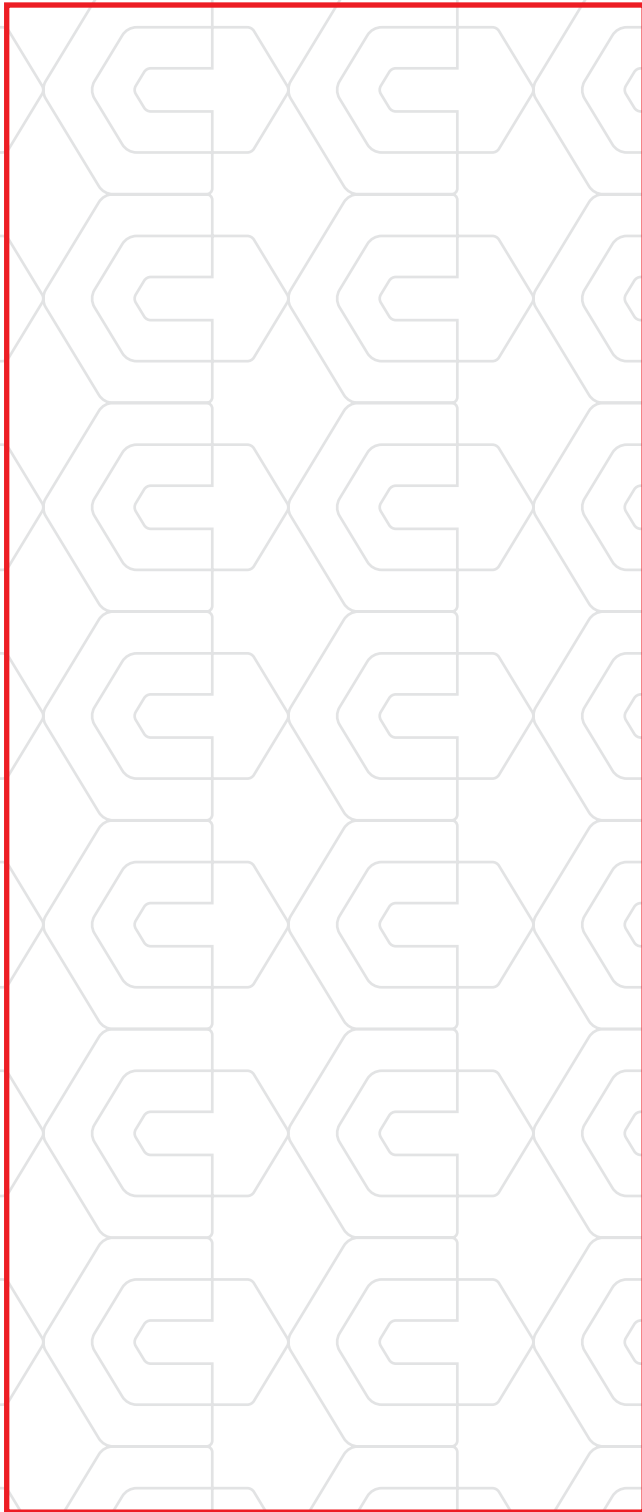
Automatic chemical treatment and flushing of the injector before testing under high pressure and using a specially formulated detergent

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

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