CARBON ZAPP

CRU.2R

CRDI SOLUTIONS

Diesel Injection Systems

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

CRU.2R

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

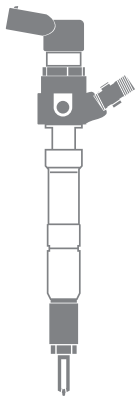
NVcT: VCC / NCC / EU6 Needle Control Testing CRS.3-27 / CRS.2-25 / i-Art and more Capable

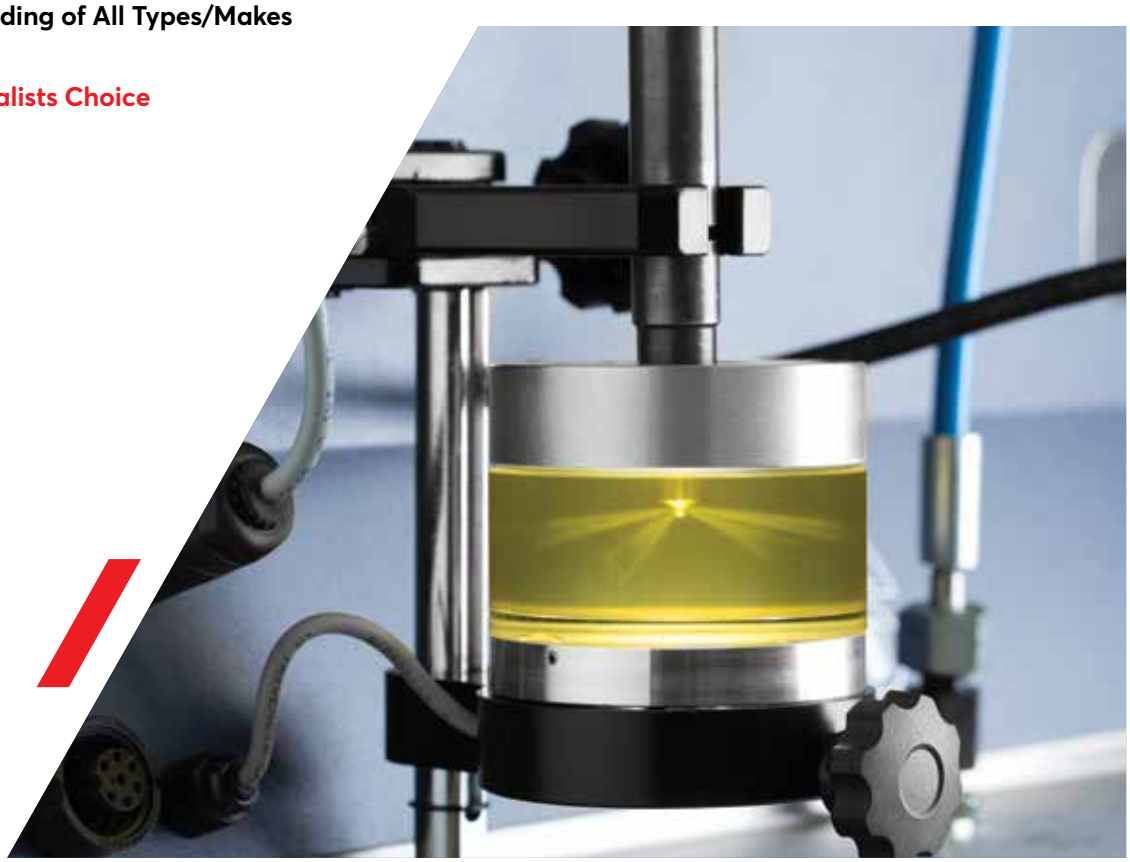
Compact Size for Every Laboratory

Fully Automatic and Fast Testing

Testing & Coding of All Types/Makes

Diesel Specialists Choice





Regional Distributor

Premo International Pte Ltd - 39B Jalan Pemimpin #04-00 Prime Industrial Building Singapore 577184 Contact No: +65 6354 5255 Fax No: +65 6354 5755 Email: premo@premo.com.sg

Website: www.premo.com.sg

VDO Authorized

CRU.2R

Compact Diesel Common Rail Test Bench for 1 CRi(N) / 1 CRiN 4.2 solenoid or piezo injector in under 7min

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- 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

View CZ **CRU2R** Tutorial Video

https://www.youtube.com/watch?v=idOKGpnkAH0&feature=youtu.be

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CZ Technologies

Tests Performed

R2LC
Electrical actuator test for kΩ/µF, Ω/µH

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."

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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

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