




**CRU.4R**  
**CRDI SOLUTIONS**

**Diesel Injection  
Systems**

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



## 1 CRDi Solutions

Common Rail Revolutionary testing solutions  
for BOSCH, DELPHI, DENSO and VDO

Heavy Duty and Light Duty applications

All types Piezo, Solenoid & Dual-Solenoid actuators.

### CRU.4R





## CRU.4R

Test Bench for 4 CRDi's

Up to 2500Bar HP with 6.5 bar air supply

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

Dynamic Electronic Mass Measurement (BK)  
Acc: 0.2%FS, repeatability: 0.05%

Under 25min testing phase

### Fully Automatic Operation

Diesel Specialist level of Diagnosis

10" Touchscreen HMI

Capable of EUI/EUP and HEUI

Testing with optional Attachment units

VDO/Bosch/Denso Piezo

Stack Regeneration function

CGL: VDO Automatic

Valve Lift Gap Measurement

### Blue Limits Diagnosis



View CZ C

Tutorial Video



<https://youtu.be/idOKGpnkAH0>



**BK** Dynamic Electronic Mass Measurement

**VT** Analog Volumetric Measurement

**DFAP** Electronic Static Mass Measurement

**Premo**  
International Pte Ltd

### Regional Distributor

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## Tests Performed

### R2LC

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

### CFL

Check For Leaks test (injector internal or external)

### NLT

Nozzle Leakage Test

### LKT

Static Back Leak Test

### aNOP

Automatic Nozzle Opening Pressure test

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

Injector Volume Measuring test  
(full-load, part-load, emissions, low-load,  
pre/post-injection tests and more...)

### iVM-DFI

Injector Volume Measuring test (multiple  
test-points slope per Pressure)

### RSP

Injector nozzle Response-time test

### SPR

Dynamic Spray test performed in all testing  
conditions

## Features

### iPSC

Illuminated Pressurized spray chamber

View of injection pattern up to 2500Bar

Visually diagnose NOP, incorrect spraying, leaky / seized  
injectors

### RSP

Sensor adaptable to all nozzles

Precise measurement of nozzle reaction time

Easily diagnose a slow acting injector, a retarded injection  
event, poor engine performance and emissions issues.

### AZO Software

Advanced Android based HMI/PC

Wi-Fi printing, sharing, syncing, software/hardware  
& database updating, via USB or WiFi

Real-time Oscilloscope and CSV data export

TeamViewer Support and more...

### Reports

Easy fail-track color report for each injector.

Single-page Quick report or Multi-page  
Analytic reporting

### Specifications

All Makes OE Manufacturer  
& User Database

Developer and OE customizing

Piezo & Solenoid programmable  
actuation profiles

(HV: 0-300 Volts / 0-35A)

Injector & PCB protection circuit  
(StG, StB, SC, OC, IC)

Multiple Injections capability

User friendly, ergonomic, dynamic  
& robust design

Spill-free hose quick connectors

aMACC – Automatic chemical  
treatment and flushing of the injector  
before testing\*

Complementary set of CRi adapters,  
fittings and connectors for all makes  
& types



\* Available Optionals \*\* Future Updates