CARBON ZAPP

CRU2R X

Diesel System Test Bench

The Affordable Diesel Specialists CRDi Solution

Service Station for All Makes Passenger Car, Light and Medium Duty CRDi systems.

2500 Bar

Standalone Air-Driven Test Bench for 1 Diesel CRDi Injector.

Authorized Solution for Continental/VDO

Continental

New database and Coding is continiously being updated to new EU6 applications

CRDi

EUi/EUP

HEUi

CRP

ENGINE

GDi

EFi

GDi Pumps

Overview of the CRU2.R-X

Precise, repeatable and rapid Diesel Injectors Testing

[1] Injector Testing & Coding*

- 6-12 minutes testing and coding* time per injector
- CRi / CRiN injectors (All Brands and Types).
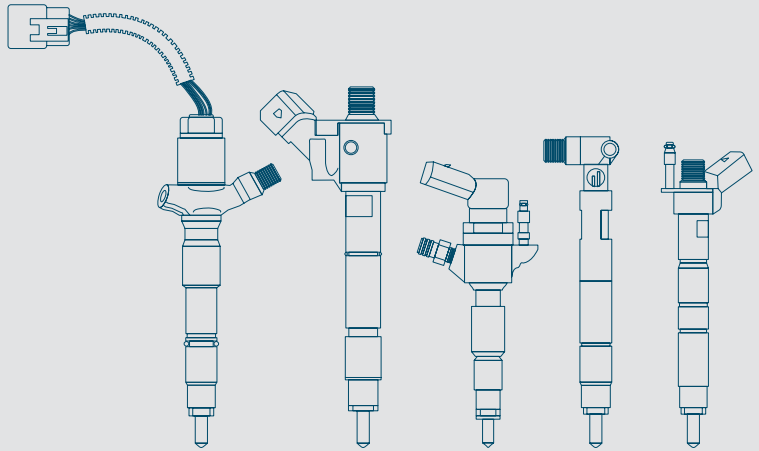- Capable for all EU6 technologies such as VCC and NCC technology, iART, PCRS5, XPI and more...

CGL - Authorized Continental / VDO "Blind-Lift" Measurement of Piezo-Stack

CloudX ™

Powerful innovations at your fingertips with Carbon Zapp CloudX computing Platform. Take complete control over your service benches with cloud-based Apps, business intelligence (BI) services and database management systems over a secure Internet connection.

CRDi Test Bench for Diesel Specialists & Workshops

Passenger & Light Duty Systems

AZO SOFTWARE

Features

A Continental/VDO Authorized Test Bench

Xtremely Fast Testing Times without any Compromise

Modern Design for every Service Station

Optimized Working Area to reduce Injector Set-up Times

2500Bar Operating Pressure

EU6 Systems Testing and Coding

CloudX Capabilities

Coding capability for all brands and types available in the market today. Bosch, Denso, Delphi, Continental / VDO, CAT

Off-Highways CR applications testing and coding* (John Deere, Komatsu, Hino, Isuzu)

Cummins XPI*, Caterpillar-Perkins C4/C6 and other Medium-Duty testing and coding

Diesel CRDI testing and coding

Ergonomic, Fast and Easy Injector Clamping device to minimize mounting times.

Fully Adjustable height for all types of CR injectors.

Utilizes a spring-loaded injector holder to ease the operation of the user.

Advanced self air-cooling system to optimize long term nonstop operation at all environmental conditions.

Live Response Time Measurement for all injectors

BIP Actuation Measurement for all Heavy-Duty type solenoids

Adaptability for every type of Diesel Injectors in the market

Continuous Database updates and new Software capabilities to meet the market needs.

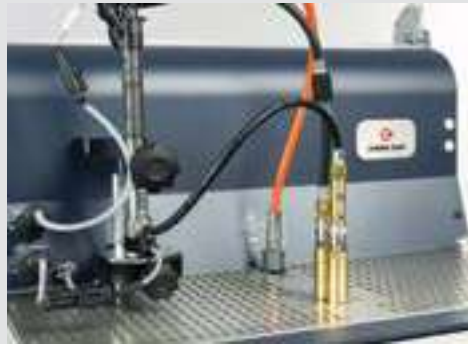Android Powered 10 HMI with unlimited flexibility and connectivity competencies.

Injector flushing feature pre-installed (optional kit available)

*New database and Coding is continiously being updated to new EU6 applications

TESTING WITH ILLUMINATED SPRAY CHAMBER.

TESTING WITH RESPONSE MEASUREMENT CHAMBER FOR CODING.

CRU2R //X Specifications

	DESCRIPTION	UNIT	CRU.2R|X (CZ-008728)
Machine Dimensions	Length	mm	620
	Width	mm	780
	Height	mm	740
Weight		kg	63
HMI	Tablet Touchscreen	Inches	10
Internet Update	WiFi / Ethernet	-	YES / YES
Pressure Source	Type		Air Driven High Pressure Pump
Test Oil	Type		"(DxL-ISO) ISO4113
			Calibration Oil"
Test Oil Tank	Capacity	Liters	4
Max Pressure	Pressure	Bar	2500
Max RPM	Max Revolutions Per Minute	RPM	-
Max Pumps	Pumps Test	Slots	-
Max Injectors	Test Injectors	Slots	1
HP Pump	High Pressure Pump	Type	Pneumatic Pump
LP Pump	Supply Pressure	Bar	-
Air Supply	Pressure	Bar	6.5-10
	Air Tank Capacity	Lt	250
	Air Flow	Lt/ Min	400
	Min Diameter at Air Supply Hose	mm	8
	Air	Type	Water / Oil FREE
Main Power Supply	Phases	Number	1
		TYPE	1P+N
	Voltage	VAC	100 - 240
	Frequency	Hz	50/60
	Current	Ampere	5
	Max Consumption	kVA (100V/240V)	0.5 / 1.2
Operating Temperature	Min / Max Room Temperature	Celsius	6 / 35
IVM Sensors	Measurement Sensors	Type / Quantity	XKM / 2 *

MEASUREMENT SENSORS
XKM [Dynamic Meas. Sensor]: High Accuracy: ± 0.1%, Exceptional Repeatability ±0.05%, Measur. Range: 1-1000ml/min
DFM 500 [Dynamic Measurement Sensor]: Accuracy: ± 1%, Repeatability 0.5%, Measurement range: 5-500lt/min
DFM 50 [Dynamic Measurement Sensor]: Accuracy: ± 1%, Repeatability 0.5%, Measurement range: 0.5-50lt/min
Volumetric Tubes [Static Analog Measurement]: Accuracy: 1ml, Measurement range: 0,5-65ml

APPLICATIONS
Passenger Car/ Motorcycles: Volumes up to 120mm3/H
Light Duty: Volumes up to 200mm3/H
Medium Duty: Volumes up to 300mm3/H

EXPLANATIONS
- : N/A
- A: Air Cooling
- W: Water Cooling

PRESSURE SOURCES
Air: Air Driven High Pressure Pump
Motor: Motor Driven High Pressure CR Pump
External: Pressure coming from another Test Bench or external source
Electr Pump: Fuel Injection system or Industrial Application Electrical Pump 12VDC
-- : No Pressure Source

eXpanding Capabilities

Space saving, accessory organizers for everyday tasks. Increased productivity and uncluttered space.

Extras
MTBR-X & PTBR-X

1

2

Hydraulic Hose Side Panel Pocket with Drain

2

1 Desk & Harness Shelf

Ultrasonic Shelf

for GTBR-X,
ITBR-X, HTBR-X

CZ Base Trolley

**Hose & Harness
Side Organizer**
(max. 2 pcs per trolley)

Carbon Zapp Trolley

Ideal workshop organizer to fit most parts of the machine like harnesses, hoses, adapters, tools and flanges. Can be easily transformed to a Cambox and/or pump rack for easy transfer and storing.

**Carbon Zapp Trolley
Fully Configured Setup**

**CRp Flange Drawer
Organizer**
(max. 1 pc per trolley)

**Cambox/Pump
Transfer Rack**
(max. 2 pcs per trolley)

CloudX is CarbonZapp
IoT Cloud computing Platform

**Powerful innovations at your fingertips
with CZ CloudX computing Platform**

CARBON ZAPP

CloudX™
CARBON ZAPP TECHNOLOGY

CZ CloudX computing technology Platform as a service (PaaS) is a complete enviroment in the cloud, with resources that enable clients the full control of their Bench with cloud based Apps access them over a secure Internet connection. With middleware, development tools, business intelligence (BI) services, database management systems and more.

CloudX allows clients to access live online updates of database, remote operation and status report of their bench. Generate remote reports for handling, printing, filling and organizing from machine database. Instant activation of features on a pay-as-you-go basis. Multiple machines management support. Complete machine cloud back-up and instant trouble shooting via X-Connect directly from CZ factory. Receive notifications on your smart devices for machine maintenance tasks like Oils, Filters, Service, and more.

Explore today new powerful innovations at your fingertips with CZ CloudX computing Platform.

CloudX Features

- IoT Cloud computing Platform. Industry 4.0 Complaint

- Live Online Updates of Database and supporting new requests from clients

- Remote Operation and Status Report of Client Bench

- Generating remote reports for handling, printing, filing and organizing from machine database

- Instant Activation of Features on a pay-as-you-go basis

- Multiple machines management

- Complete machine cloud back-up

- Instant troubleshooting via X-Connect directly from CZ Factory

- Notifications on Client smart devices for machine maintenance tasks like Oils, Filters, Service, and more

**Scan CZ Digital
Product Catalog**