

ITB4R //X

Diesel System Test Bench



**The Optimum
Diesel Specialists CRDi Solution**

The Professional's Service Station
for All Types and Makes CRDI systems.

ITB4R //X



// 2800 Bar

**Standalone
Diesel CRi
(4 Injector)
Test Bench
For Specialists**

A Revolution in CRDi Test Benches

Our qualified team, know-how
and pioneering thinking developed
the New Powerful ITBR|X Generation

ITB4R //X

Authorized Solution
for Continental/VDO



The New ITB4.R|X is a unique Standalone Diesel Injector Testbench capable to thoroughly Test, Service and code every possible CRDi in the Market today.

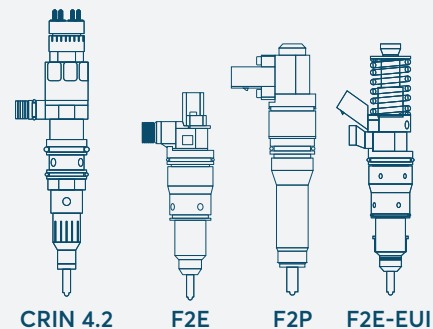
The machine's Innovative technology is already in compliance with all EU6 Standards and requirements, meantime is prepared for future upgrades.

#carbonzappXseries



Applications

- Diesel Passenger cars
- Diesel Light Duty vehicles
- Diesel Medium & Heavy-Duty Commercial, Agriculture and Industrial Equipment
- Diesel Heavy Duty Marines

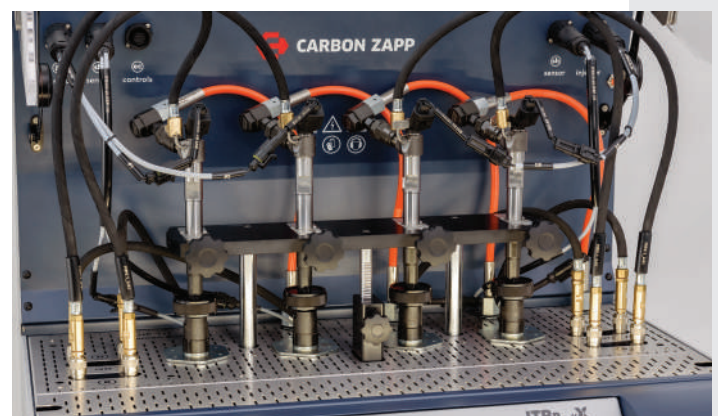


EU6 Technologies

////// Evaluation of the New ITB.4R|X Precise, repeatable and rapid Diesel Injectors Testing

6-12 minutes testing time for:

- 4 CR injectors (All Brands and Types). Capable for all EU6 technologies such as VCC and NCC technology, iART, PCRS5, XPI, F2, F2E, F2P, F2R Injectors and more..
- 2 Heavy Commercial-vehicle injectors CRIN 4.2
- Up to 4 Large Diesel CR Engine injectors (MTU, L'Orange, etc..)



CloudX™

- Cloud Based Technology
- Industry 4.0 Complaint
- Remote Sync & Backup
- Machine Fleet Management
- Online Features Activation
- Instant Troubleshooting & Support
- AZO Software v3.0
- Powered by CloudX



Features

A Continental/VDO Authorized Test Bench

Xtremely Fast Testing Times without any Compromise

New Design for every Service Station

Optimized Working Area to reduce Injector Set-up Times

2800Bar 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, Cummins*, John Deere, ISUZU*, HINO*, KOMATSU*, F2 Smart EUI/ EUP EU6 Technology*, F2P/ F2E/ E1/ E3/ DAF/ Smart Pump technologies and more added every day...

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

Cummins XPI*, Caterpillar-Perkins C4/C6 and other Medium and Heavy-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.

Easily accessible filters and waste area
Quick access to all inline filters for fast check-up and replacement located within your working area. A mess-free compartment to work at, continuously draining to the waste tank.

Advanced water-cooling or 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 15.6" HMI with unlimited flexibility and connectivity competencies.

Injector flushing feature pre-installed (optional kit available)

Part Number		ITB.4rX
	Standalone Add-On Cooling Type	● - [A / W]
TYPE	Test Bench Simulator / Controller Cambos Service / Diagnostic Unit	● - - -
USER LEVEL	Diesel / Gasoline Specialists Workshop / Garage Test Slots [injectors / Pumps]	● - [4 / -]
SYSTEMS / [TESTING MINUTES]	CRDi / Smart Injectors [1 / 4] GDi Injectors [1 / 4] CR Pumps [1] GDi Pumps [1] EUI / EUP / Smart EUP [1] HEUI [1 / 4] Gasoline Injectors [1 / 4] LPG / CNG Injectors [1 / 4] Gasoline /Other Engines Diesel Engines Gasoline/Diesel Fuel Systems	● / [-/9] - - - - - - - - - -
APPLICATIONS	Passenger Car / HEV / PHEV Motorcycles Racing (Gasoline) Light Duty Medium Duty Heavy Duty / Industrial Marine EV (Electric Vehicles)	● - - ● □ □ □ -
FEATURES	Coding Capability for Passenger Car / Light Duty Coding Capability for Medium/Heavy Duty Authorized Solutions	□ □
MEASUREMENT SENSORS	XKM DFM500 DFM50 Volumetric Tubes	4 - - -
SYSTEM PRESSURE	Max (BAR) Source Source Power (HP)	2800 MOTOR 4.8
CHARACTERISTICS	Response Sensor Response Sensor HD Pressurized Return Hoses / PIRV's Exclusive Return Hoses Kit Spray Chamber Heavy Duty Injector Adapters & Fittings Heavy Duty Pump Adapters & Fittings Exclusive Electrical Connectors Mains Power 50/60Hz /1-Phase 100-250VAC Mains Power 50/60Hz /3-Phase/PE 380-480VAC Air-Supply (Bar / L/min) Water Cooling (requires connection) Air Cooling Tank Capacity [testing / flushing] HMI (Inches) Touchscreen Flushing / MACC Protective Cover Calibration Oils Ultrasonic Bath	□ □ ○ ● ○ □ - ○ - ● - - ● - - ● ○ ○ ○ ○ ○ ○ ○ ○
PACKAGING	Width (mm) Depth (mm) Height (mm) Weight (kg)	800 1200 1750 325

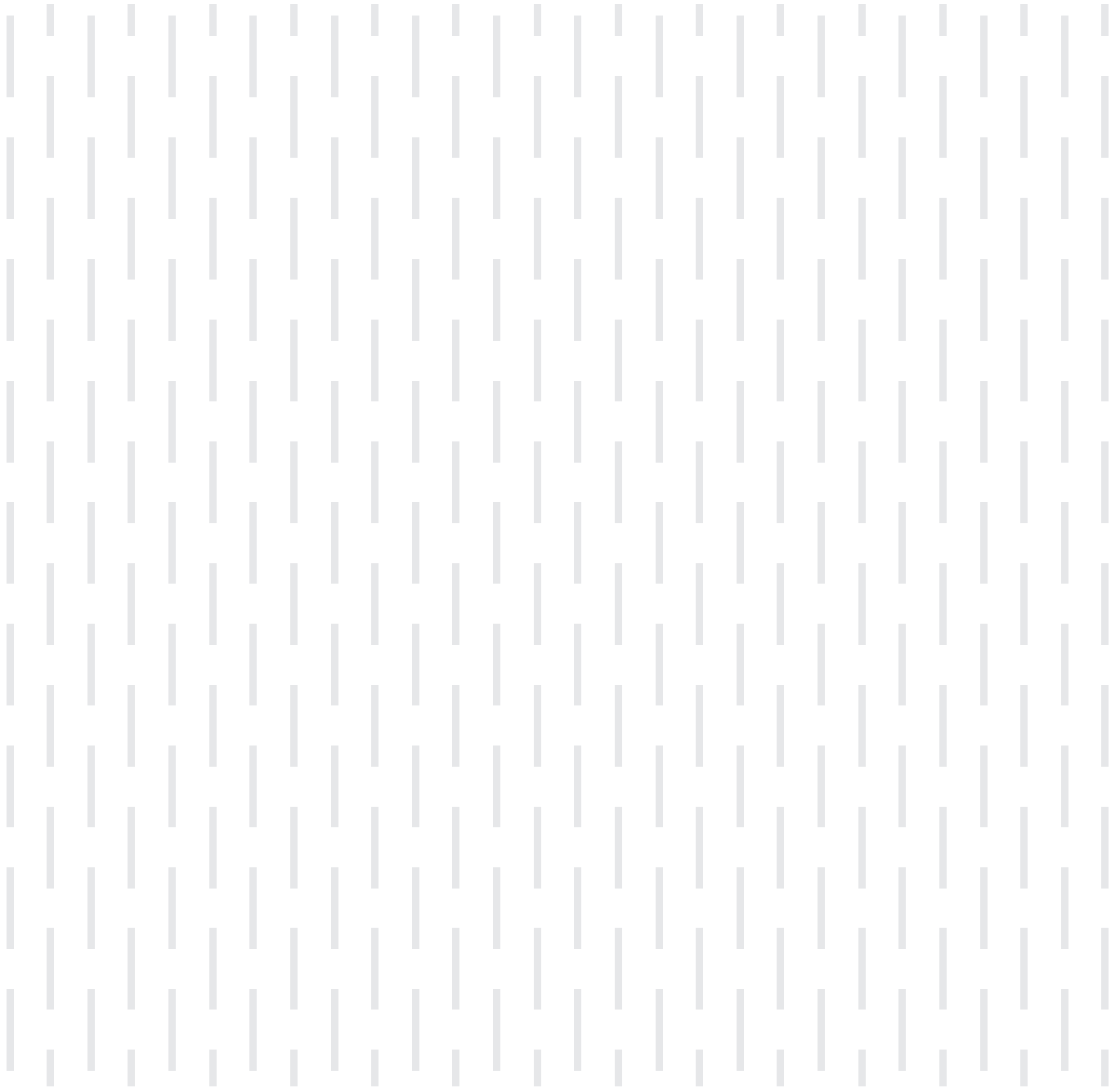
EXPLANATIONS

- : Capable / Standard Equipped
- : Capable / Optionals required
- : Optional
- : N/A
- A: Air Cooling
- W: Water Cooling

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: 5-500l/min
DFM 50 (Dynamic Measurement Sensor): Accuracy: ± 1%, Repeatability 0.5%, Measurement range: 0.5-50l/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
Heavy Duty: Volumes up to 650mm³/H
Marines: Volumes up to 1500mm³/H

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



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