

ITB1R //X

Diesel System Test Bench

The Optimum Diesel Specialists CRDi Solution

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

2800 Bar

**Standalone Diesel
CRDi Test Benches
for Specialists.
Available in 2 models
for 1 / 4 injectors**



ITB.1R-X

**Authorized Solution
for Continental/VDO**



SPECIALISTS

CRDi

EUI/EUP

HEUi

CRP

ENGINE

GDi

EFI

GDi Pumps

Overview of the New ITB.1R-X

Precise, repeatable and rapid Diesel Injectors Testing

[1 / 4] Injector(s) Testing & Coding*

- 6-12 minutes testing and coding* time for 1 or 4 injectors respectively
- CRi / CRiN injectors (All Brands and Types).
- Capable for all EU6 technologies such as VCC and NCC technology, iART, PCRS5,
- XPI, F2E, F2P, F2R Injectors pumps and more...
- CRIN 4.2 Heavy Commercial-Vehicle injectors
- Large Diesel Engine CRiN injector (QSK, MTU, L 'Orange, etc...)

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



ITB.4R-X

CloudX™
CARBON ZAPP TECHNOLOGY

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.

A Revolution in CRDi Test Benches

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

ITBR-X Points



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

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1 Working Area

Ergonomic & easily accessible illuminated working space. Fast mounting for all types of Injectors.

2 Easily Accessible Filters & 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.

3 Machine Interface

New CloudX based AZOV3 software features speed, connectivity and expandability in a user friendly environment.

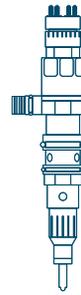
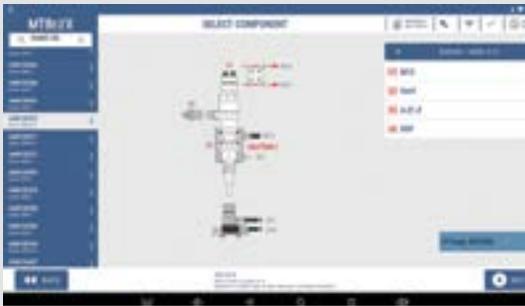
4 Easily accessible drawer and connection ports.

5 Functional use of test oil tank enhances maintenance.

Tank extends to fill-up, drain and clean.



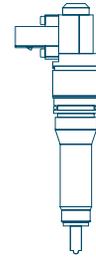
AZO SOFTWARE



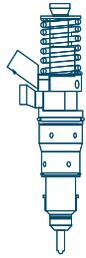
CRIN 4.2



F2E



F2P



F2E-EUI

EU6 Technologies

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, Cum- mins*, 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

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)

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

		ITB4R-X	ITB1R-X
	Part Number	ITB.4RX-A [CZ-008721] ITB.4RX-W [CZ-008771]	ITB.1RX-A [CZ-008719] ITB.1RX-W [CZ-008799]
	Cooling Type	[A / W]	[A / W]
	Standalone	●	●
	Add-On	-	-
TYPE	Test Bench	●	●
	Simulator / Controller	-	-
	Service / Diagnostic Unit	-	-
USER LEVEL	Diesel / Gasoline Specialists	●	●
	Workshop / Garage	-	-
	Test Slots [injectors / Pumps]	[4 / -]	[1 / -]
SYSTEMS / [TESTING MINUTES]	CRDi / Smart Injectors [1 / 4]	● / [-/9]	● / [-/6]
	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	-	-
APPLICATIONS	Passenger Car / HEV / PHEV	●	●
	Motorcycles	-	-
	Racing (Gasoline)	-	-
	Light Duty	●	●
	Medium Duty	□	□
	Heavy Duty / Industrial	□	□
	Marine	□	□
	EV (Electric Vehicles)	-	-
FEATURES	CloudX - (Page O6)	□	□
	Coding Capability for Passenger Car / Light Duty	□	□
	Coding Capability for Medium/Heavy Duty	□	□
	Authorized Solutions		
MEASUREMENT SENSORS	XKM	4	2
	BK	-	-
	DFM500	-	-
	DFM50	-	-
	Volumetric Tubes	-	-
SYSTEM PRESSURE	Max (BAR)	2800	2800
	Source	MOTOR	MOTOR
	Source Power (HP)	4.8	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]	[30 / -]	[30 / -]
	HMI (Inches)	15	15
	Touchscreen	●	●
	Flushing / MACC	□ / -	□ / -
	Protective Cover	●	●
	Calibration Oils	○	○
	Ultrasonic Bath	○	○
PACKAGING	Width (mm)	920	920
	Depth (mm)	1160	1160
	Height (mm)	1870	1870
	Weight (kg)	380	337

CRDi
EUI/EUP
HEUI
CRP
ENGINE
GDi
EFI
GDi Pumps

MEASUREMENT SENSORS
 XKM [Dynamic Meas. Sensor]: High Accuracy; ± 0.1%; Exceptional Repeatability ±0.05%
 BK [Dynamic Meas. Sensor]: High Accuracy; ± 0.1%; Exceptional Repeatability ±0.05%
 DFM50 [Dynamic Meas. Sensor]: Accuracy ± 1%; Repeatability 0.5%; Measurement range: 5-500l/min
 DFM500 [Dynamic Meas. 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

EXPLANATIONS

● : Capable / Standard Equipped
 □ : Capable / Optionals required
 ○ : Optional
 - : 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



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Product Catalog

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