

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 4 / 1 injectors



Authorized Solution for Continental/VDO

©ntinental⁵

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...)
- Capable to diagnose failures on GDi Injectors (Optional). Recommended unit for GDi Injector Testing and Servicing is the GTBR-X

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

CRDi EUI/EUP HEUI CRP ENGINE GDi EFI



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.

ITB.4R-X

A Revolution in CRDi Test Benches

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



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

ITB1_R //X

Diesel System Test Bench



SPECIALISTS

CRDi

EUi/EUF

HFU

CRE

ENGINE

GDi

EE:

GDi Pumps

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.

Machine Interface

New CloudX based AZOv3 software features speed, connectivity and expandability in a user friendly environment.

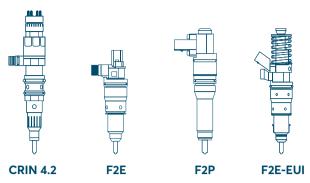
4 Easily accessible drawer and connection ports.

5 Functional use of test oil tank enhances maintenance.

Tank extends to fill-up, drain and clean.



AZO SOFTWARE



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 continiously being updated to new EU6 applications



ITBR //X

Specifications

DESCRIPTION			UNIT	ITB.4RX-A (CZ-008721)	ITB.4RX-W (CZ-008771)	ITB.1RX-A (CZ-008719)	ITB.1RX-W (CZ-008799)
Machine	Length		mm	770	770	770	770
Dimensions	Width		mm	800	800	800	800
Difficitions	Height		mm	1650	1650	1650	1650
Weight			kg	292	294	250	252
НМІ	Tablet Touchscreen		Inches	15	15	15	15
Internet Update	WiFi / Ethernet		-	YES / YES	YES / YES	YES / YES	YES / YES
Pressure Source	Туре			Motor	Driven High P	ressure CR Pu	ımp
Test Oil	Туре			(DxL-ISO) ISO4113 Calibration Oil			
Test Oil Tank	Capacity		Liters	30	30	30	30
Max Pressure	Pressure		Bar	2800	2800	2800	2800
Max RPM	Max Revolutions Per Minute		RPM	1850	1850	1600	1600
Max Pumps	Pumps Test		Slots	-	-	-	-
Max Injectors	Test Injectors		Slots	4	4	1	1
LP Pump	Supply Pressure		Bar	0.1 - 5.4	0.1 - 5.4	0.1 - 5.4	0.1 - 5.4
Air Supply	Pressure		Bar	-	-	-	-
	Air Flow		Lt/ Min	-	-	-	-
	Phases		Number	3P	3P	1P	1P
Main Power Supply			TYPE	PE	PE	P+N / PE	P+N / PE
	Voltage		VAC	380-480	380-480	220-240	220-240
	Frequency		Hz	50/60	50/60	50/60	50/60
	Current		Ampere	16	16	25	25
	Max Consumption		kVA (380V/480V)	10.5-13.3	10.5-13.3	20	
			kVA (220V/240V)	10.5 15.5	10.5 15.5	5.5 - 6	5.5 - 6
Motor	Model		TYPE	AK100L-4	AK100L-4	AK100L-4	AK100L-4
	RPM	dei	RPM 50 / 60Hz	1420 / 1700	1420 / 1700	1420 / 1700	1420 / 1700
	IXI I-I		KW 50 / 60Hz	3/3.6	3/3.6	3/3.6	3/3.6
	POWER		HP 50 / 60Hz	4 / 4.8	4 / 4.8	4 / 4.8	4 / 4.8
		Connection Δ	Ampere (50HZ)	400 V:6.56 A	380 V: 6.89 A	400 V:6.56 A	380 V: 6.89 A
			Ampere (60HZ)	480 V:6.56 A	460 V: 6.89 A	480 V:6.56 A	460 V: 6.89 A
	May Inni	it pressure	Bar	400 V.0.30 A	400 V. 0.09 A	400 V.0.30 A	4
Water Supply	Max Input pressure		Dui		1Bar< Input		1Bar< Input
	Max Output Pressure		Bar	-	Pressure	-	Pressure
	Min Input Temperature		Celsius	_	5	_	5
	Max Input Temperature		Celsius	-	15	-	15
	Min Diameter In/Out Water Hose				10	-	10
	·		mm	-	10	-	
	Water Tank Capacity		Liters	-		-	10 4
	Max Water Flow		Lt / Min (4Bar)	-	4	-	
	Min Water Output Temperature		Celsius	-	5	-	5
	Max Water Output Temperature		Celsius	-	65	-	65
	Delta T		Celsius	-	0-50	-	0-50
	Max Cooling Efficiency "Debit"						
	[20 liters of 5° C water in order to Cool Down the Test Oil from		Tank Cycles	-	2	-	2
	43° C to 36° C (2 tank cycles)]						
Operating Temperature	Min / Max Room Temperature		Celsius	6 / 23	6/30	6 / 23	6/30
IVM Sensors	Measurement Sensors		Type / Quantity	XKM / 4 *	XKM / 4 *	XKM / 2 *	XKM / 2 *

SPECIALISTS

SPECIALIS IS
CRDi
GDi
GDi Pumps

MEASUREMENT SENSORS
XKM [Dynamic Meas. Sensor]. High Accuracy: ± 0,1%, Exceptional Repectability ±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 Weasurement); Accuracy: Tif, Measurement range: 0,5-50lt/min

DFM 50 [Dynamic Measurement Sensor]. Accuracy, ±1%, TR
Volumetric Tubes (Static Analog Measurement): Accuracy, ±1%, TR
APPLICATIONS
Passenger Carl Matorcycles: 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 650mm3/H
Marines: Volumes up to 1500mm3/H

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

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

eXpanding Capabilities

X Series 2023

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









Hydraulic Hose Side Panel Pocket with Drain



Ultrasonic Shelf

for GTBR-X, ITBR-X,









Carbon Zapp Trolley Fully Configured Setup



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.



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





CZ CloudX computing technology Platform as a service (PaaS) is a complete environment 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