

GTB4R //X

Gasoline System Test Bench

The Optimum Gasoline Specialists GDi Solution

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

The New GTB4R-X is a unique Standalone Gasoline Direct Injector Test Bench capable to thoroughly Test, Service and Code every possible GDi 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

Overview of the New GTB.4R-X

Precise, repeatable and rapid Gasoline Injectors Testing

[4] Injectors Testing & Coding*

- 5-7 minutes testing and coding* time for 4 injectors
- · GDi injectors (All Brands and Types)
- Conventional Gasoline EFi Injectors
- · Capable for all EU6 technologies
- Coding Capable for all Types of GDi's (Energy Controlled or Volume Metering types)
- Flushing and Servicing options for GDi injectors
- External Control and Measurement for GDi High Pressure Pumps operating on a Conventional Test Bench**

SPECIALISTS

CDD

FUi/FUE

HEU

CRP

FNGINE

GDi

EFi

GDi Pumps

1200 Bar

4 GDi Injectors. Capable for all EU6 Technologies



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.

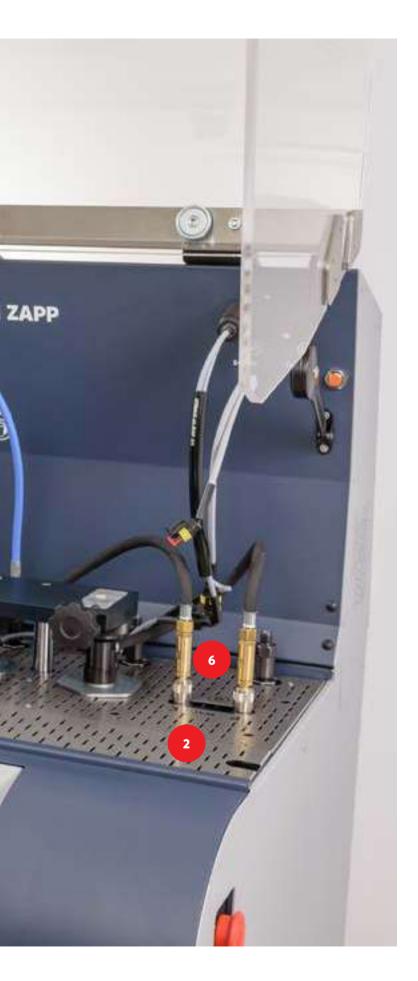
A Revolution in GDi Test Benches

Our qualified team, know-how and pioneering thinking developed the New Powerful **GTB.4R-X**

^{**:} Future upgrade expected Q1/2023.



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



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Gasoline System Test Bench

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.

(View detailed image on page 30)

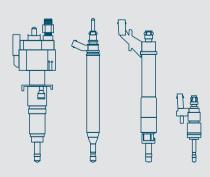
5 Functional use of test oil tank enhances maintenance.

Tank extends to fill-up, drain and clean. (View detailed image on page 30)

 Actual Dynamic measurement of the injector overflow







EU6 Technologies

Applications

Gasoline Passenger cars

Gasoline Light Duty vehicles

Gasoline Outboard motors

Alternative Fuels engines

Features

Xtremely Fast Testing Times without

any Compromise

New Design for every Service Station

Optimized Working Area to reduce

Injector Set-up Times

1200Bar Capable Test Bench

EU6 Systems Testing and Coding

CloudX Capabilities

Gasoline GDi testing and coding

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

Fully Adjustable height for all types of GDi and EFi injectors.

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

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

Advanced Testing capability for all brands and types available in the market today. Bosch, Denso, Delphi, Continental /VDO, Hitachi-HTC, Magneti Marelli and more added every day...

Coding capability for Siemens/ VDO and for the newer* generation EU6 available in the market today.

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

Live Response Time Measurement at every test plan

Adaptability for every type of Gasoline 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.

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

AZO SOFTWARE

Mark Company of the C



SPECIALISTS

CRDi
GDi
EFi
GDi Pumps

GTB4R //X Specifications

DESCRIPTION			UNIT	GTB.4RX-A (CZ-008737)	GTB.4RX-W (CZ-008787)
Machine	Length		mm	770	770
Dimensions	Width		mm	800	800
Difficilisions	Height		mm	1650	1650
Weight			kg	250	252
HMI	Tablet Touchscreen		Inches	15	15
Internet Update	WiFi / Ethernet		-	YES / YES	YES / YES
Pressure Source	Туре		Motor Driven High Pressure CR Pump		
Test Oil	Туре		(GxL-ISO) Calibration Oil		
Test Oil Tank	Capacity		Liters	30	30
Max Pressure	Pressure		Bar	1200	1200
Max RPM	Max Revolutions Per Minute		RPM	2000	2000
Max Pumps	Diesel Pumps		Slots	-	-
Max i unips	Gasoline Pumps		Slots	1	1
Max Injectors	Test Injectors		Slots	4	4
LP Pump	Supply Pressure		Bar	0.1 - 5.4	0.1 - 5.4
Air Supply	Pressure		Bar	-	-
	Air Flow		Lt/ Min	-	-
Main Power Supply	Phases		Number	1P	1P
	Pridses		TYPE	P+N / PE	P+N / PE
	Voltage		VAC	220-240	220-240
	Frequency		Hz	50/60	50/60
	Current		Ampere	16	16
	Max Consumption		kVA (220V/240V)	3.52 -3.84	3.52 - 3.84
Motor	Model		TYPE	AK100L-4	AK100L-4
	RPM		RPM 50 / 60Hz	1420 / 1700	1420 / 1700
			KW 50 / 60Hz	3/3.6	3 / 3.6
	POWER		HP 50 / 60Hz	4 / 4.8	4 / 4.8
		Connection Δ	Ampere (50HZ)	400 V:6.56 A	380 V: 6.89 A
			Ampere (60HZ)	480 V:6.56 A	460 V: 6.89 A
Water Supply	Max Input pressure		Bar	-	4
	Max Output Pressure		Bar	-	1Bar< Input Pressure
	Min Input Temperature		Celsius	-	5
	Max Input Temperature		Celsius	-	15
	Min Diameter In/Out Water Hose		mm	-	10
	Water Tank Capacity		Liters	-	10
	Max Water Flow		Lt / Min (4Bar)	-	4
	Min Water Output Temperature		Celsius	-	5
	Max Water Output Temperature		Celsius	-	65
	Delta T		Celsius	-	0-50
	Max Cooling Efficiency "Debit" [20 liters of 5° C water in order to Cool Down the Test Oil from 43° to 36° C (2 tank cycles)]		Tank Cycles	-	2
Operating Temperature	Min / Max Room Temperature		Celsius	6 / 23	6/30
IVM Sensors	Measurement Sensors		Type / Quantity	XKM / 4 *	XKM / 4 *

MEASUREMENT SENSORS
XKM [Dynamic Meas. Sensor]: High Accuracy: ± 0,1%, Exceptional Repeatability ±0,05%,
XKM [Dynamic Meas. Sensor]: High Accuracy: ± 1%, Exceptional Repeatability ±0,05%,
Measurement ange: 5-500lt/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: I'm!, Measurement range: 0,5-50lt/min
Volumetric Tubes [Static Analog Measurement]: Accuracy: I'm!, Measurement range: 0,5-50lt/min

Sench 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 550mm3/H
Marines: Volumes up to 1500mm3/H
Marines: Volumes up to 1500mm3/H

PRESSURE SOURCES
Air: All Driven High Pressure Pump
Motor: Notor Driven High Pressure CR Pump
External: Pressure coming from another Test Bench
or external source
Electron System or Industrial
Electrical Pump Teel Injection system or Industrial
Industri

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,











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