

GTB4R //X

Gasoline System
Test Bench

CloudX

The Optimum Gasoline
Specialists GDi Solution.
The Professional's Service
Station for All Types
and Makes GDI systems.



INNOVATION DRIVEN



**Engineering Forward
Mobility Solutions!**

GTB4R **X**

Gasoline System
Test Bench

Cloud**X**

#carbonzappXseries

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.

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**



1200 Bar

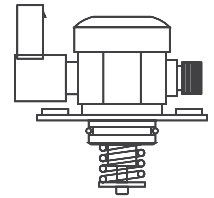
4 GDi Injectors. Capable for all EU6 Technologies

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

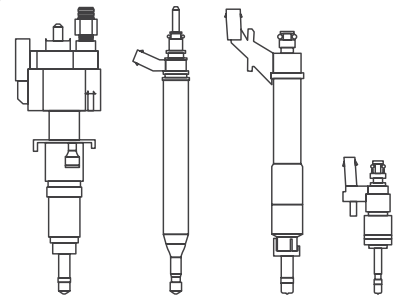


SPECIALISTS

CRDi - EUi/EUP - HEUi - CRP
 ENGINE - **GDi** - **EFi** - **GDi Pumps**



GDi Pump testing
 on a conventional bench
 as an external control
 & measurement [Optional
 future update]



EU6 Technologies

**A Revolution in
 GDi Test Benches**



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

** : Future upgrade expected Q3/2025

GTB4R **///X** → Points

☰ 01.

Working Area

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

☰ 02.

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.

☰ 03.

Machine Interface

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

☰ 04

Easily accessible drawer and connection ports.

(View detailed image on page 30)

☰ 05.

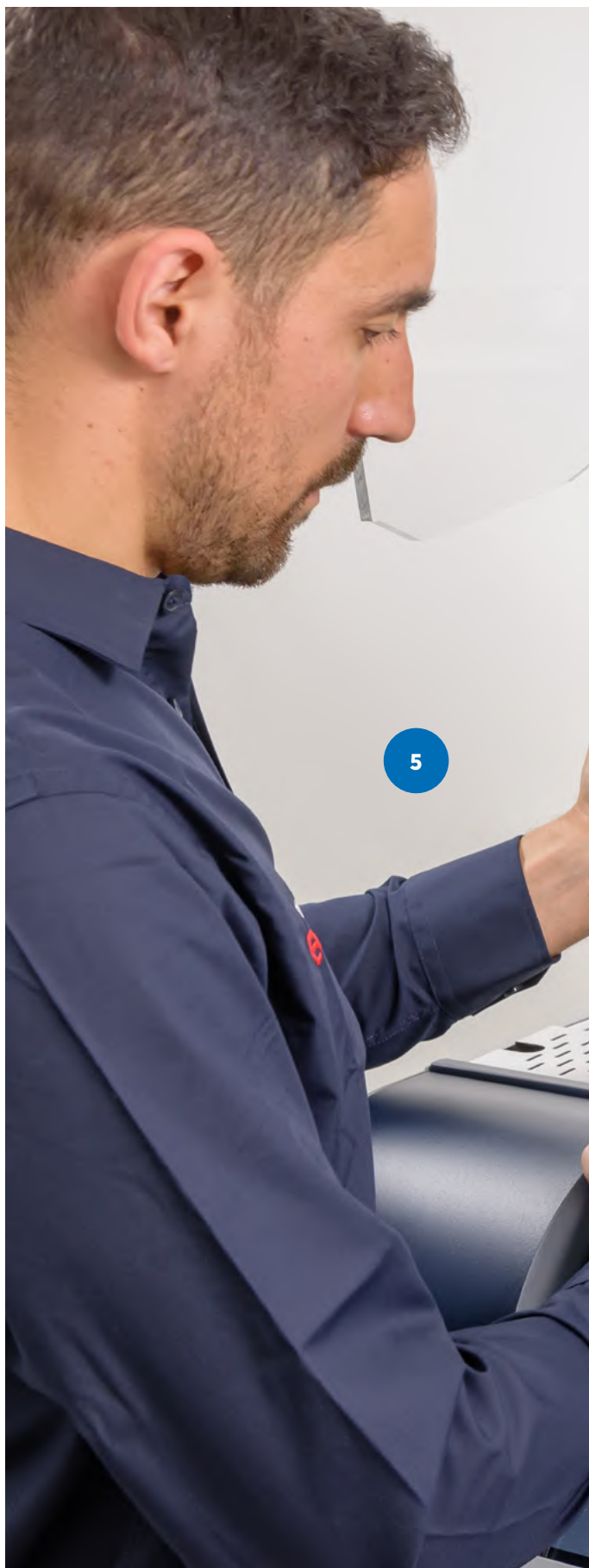
Functional use of test oil tank enhances maintenance.

Tank extends to fill-up, drain and clean.

(View detailed image on page 30)

☰ 06.

Actual Dynamic measurement of the injector overflow







→ **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.

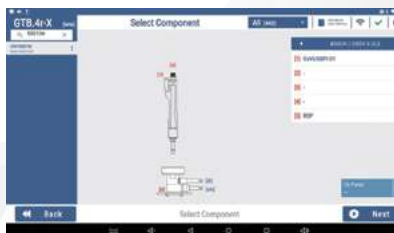
Live Response Time Measurement at every test plan

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.

AZO SOFTWARE



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

GTB4R **///X**

Gasoline System
Test Bench

SPECIALISTS

CRDi - EUi/EUP - HEUi - CRP
ENGINE - **GDi** - **Efi** - **GDi Pumps**

GTB4R **///X** → SPECIFICATIONS

	DESCRIPTION	UNIT	GTB.4RX-A (CZ-008737)	GTB.4RX-W (CZ-008787)	
Machine Dimensions	Length	mm	770	770	
	Width	mm	800	800	
	Height	mm	1650	1650	
Weight		kg	250	252	
HMI	Tablet Touchscreen	Inches	15	15	
Internet Update	WiFi / Ethernet	-	YES / YES	YES / YES	
Pressure Source	Type	Motor Driven High Pressure CR Pump			
Test Oil	Type	(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	-	-	
	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	
		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	
	Model	TYPE	AK100L-4	AK100L-4	
Motor	RPM	RPM 50 / 60Hz	1420 / 1700	1420 / 1700	
	POWER		KW 50 / 60Hz	3 / 3.6	
			HP 50 / 60Hz	4 / 4.8	
		Connection Y	Ampere (50HZ)	400 V:6.56 A	380 V: 6.89 A
			Ampere (60HZ)	480 V:6.56 A	460 V: 6.89 A
	Max Input pressure	Bar	-	4	
	Max Output Pressure	Bar	-	1Bar< Input Pressure	
	Min Input Temperature	Celsius	-	5	
	Max Input Temperature	Celsius	-	15	
Water Supply	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° C 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 *	

→

- : N/A
A: Air Cooling
W: Water Cooling
PRESSURE SOURCES
Motor: Motor Driven High Pressure CR Pump
Elect: Pump: Fuel Injection system or Industrial Application Electrical Pump 12VDC
MEASUREMENT SENSORS
XKM [Dynamic Press. Sensor]: High Accuracy: ± 0.1%, Exceptional Repeatability: ±0.05%, Measur. Range: 1-1000ml/min
APPLICATIONS
Light Duty: Volumes up to 200mm³/H
Medium Duty: Volumes up to 300mm³/H
Heavy Duty: Volumes up to 650mm³/H



CloudX is Carbon Zapp 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 Platform Industry 4.0

Remote Operation and Status Report of Client Bench

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

Multiple machines management

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

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

Complete machine cloud back-up

Instant troubleshooting via CX-Connex directly from CZ Factory

Live Online Updates of Database and supporting new requests from clients

EXPANDING CAPABILITIES



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



Extras



MTBR-X & PTBR-X



01.
Desk & Harness Shelf



02.
Hydraulic Hose Side Panel
Pocket with Drain

Ultrasonic Shelf



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





**Carbon Zapp Trolley
Fully Configured Setup**

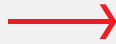


/// CZ Base Trolley



**/// 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)





**VIEW CZ Digital
Product Catalog**



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