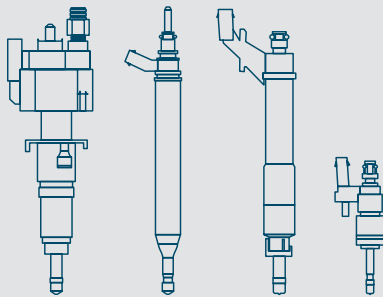


GDU4R //X

Gasoline System Test Bench



**EU3 > EU6
Technologies**

**The professional solution
for workshops to test & service
Gasoline Direct Injection Systems.**

Overview of the GDU.4R-X

Precise & repeatable Gasoline Injectors Testing

[4] Injectors Testing & Coding*

- 20 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

SPECIALISTS

CRDi

EUI/EUP

HEUi

CRP

ENGINE

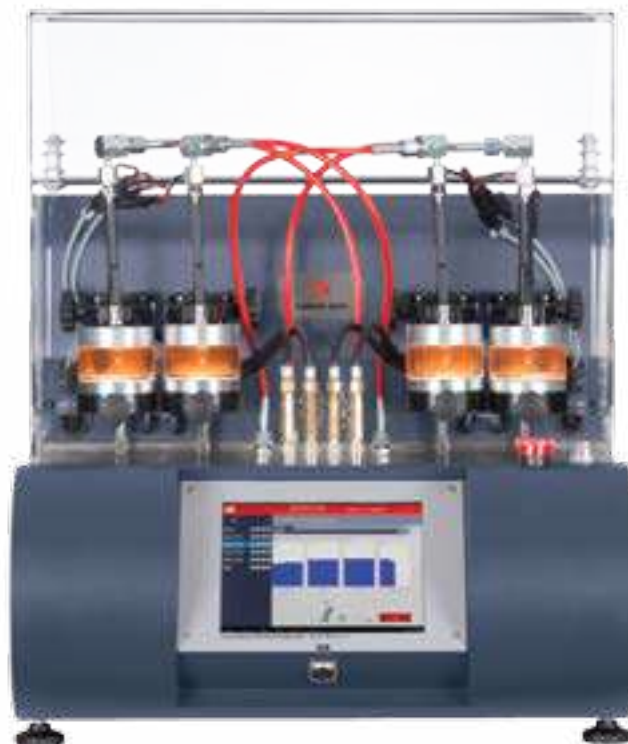
GDi

EFi

GDi Pumps

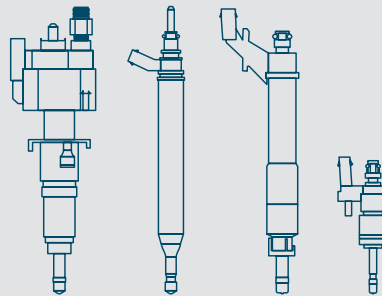
650 Bar

**4 GDi Injectors
Capable**



Gasoline Direct Injection (GDi) requires high pressure testing to truly diagnose injector operation faults.

AZO SOFTWARE



EU3 > EU6 Technologies

Features

Controls all Types and Makes of Injectors. Includes OEM Database and Test Plans

Low Pressure Testing for Conventional MPFi or Racing application Injectors 0-10Bar

Controls NEW Generation High Pressure GDi with multiple Step Current profiles

LPG for Heavy Duty Applications (Trucks, Commercial Vehicles)

Continental / Siemens GDi injectors (EU5) testing only with approved Energy Control

Nozzle reaction time measurement for all systems via RSP sensor

Dual System - Flushing / Cleaning system using detergents and Ultrasonics

Efficient Working Area with Protective Hood fully opening

The fastest and easiest clamping of injectors in the market

Fully Automatic and fast testing phase through a 10" Touchscreen HMI with AZO software

GDi Piezo Stack Regeneration function. The only way to correct GDi Piezo injectors after Cleaning them internally and reverse flushing them

Reverse flushing adapter and function with 25Bar pressure

Blue Limits Diagnosis for Specialists

Dynamic Electronic Mass (BK) Measurement

Prepared for Future Injector Coding

Emergency Safety Stop function

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



SPECIALISTS

CRDi
EUI/EUP
HEUi
CRP
ENGINE
GDi
EFI
GDi Pumps

GDU4R //X Specifications

DESCRIPTION		UNIT	GDU.4R X (CZ-008726)
Machine Dimensions	Length	mm	620
	Width	mm	780
	Height	mm	740
Weight		kg	59
HMI	Tablet Touchscreen	Inches	10
Internet Update	WiFi / Ethernet	-	YES / YES
Pressure Source	Type	Air Driven High Pressure Pump	
Test Oil	Type	(GxL-ISO) Calibration Oil	
Test Oil Tank	Capacity	Liters	4
Max Pressure	Pressure	Bar	650
Max RPM	Max Revolutions Per Minute	RPM	-
Max Pumps	Pumps Test	Slots	-
Max Injectors	Test Injectors	Slots	4
HP Pump	High Pressure Pump	Type	Pneumatic Pump
LP Pump	Supply Pressure	Bar	-
	Pressure	Bar	6.5-10
	Air Tank Capacity	Lt	250
	Air Flow	Lt/ Min	400
Air Supply	Min Diameter at Air Supply Hose	mm	8
	Air	Type	Water / Oil FREE
Main Power Supply	Phases	Number	1
		TYPE	1P+N
	Voltage	VAC	100 - 240
	Frequency	Hz	50/60
	Current	Ampere	5
	Max Consumption	kVA (100V/240V)	0.5 / 1.2
Operating Temperature	Min / Max Room Temperature	Celsius	6 / 35
IVM Sensors	Measurement Sensors	Type / Quantity	BK Coriolis / 1*

MEASUREMENT SENSORS
 XKM | Dynamic Meas. Sensor; High Accuracy: ± 0.1%, Exceptional Repeatability: ± 0.05%; Measur. Range: 1-1000ml/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

- : N/A
PRESSURE SOURCES
 Air: Air Driven High Pressure Pump
 Motor: Motor Driven High Pressure CR Pump
 External: Pressure coming from another test Bench
 Elect. Pump: Fuel Injection system or Industrial Application Electrical Pump 12VDC
 -: No Pressure Source

eXpanding Capabilities

X Series 2023

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

Extras MTBR-X & PTBR-X



1 Desk & Harness Shelf



Hydraulic Hose Side Panel Pocket with Drain

2



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)





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



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