

**DGFR //X**

Diesel System Test Bench

Diesel CRDi & Gasoline  
GDi Flushing Bench.  
Flushing / Cleaning and  
Servicing bench for up  
to 4 injectors.

**CloudX**



**INNOVATION DRIVEN**



**Engineering Forward  
Mobility Solutions!**

**DGFR //X**

Diesel System Test Bench

Authorized Solution for Continental/VDO



Diesel CRDi & Gasoline GDi Flushing Bench. Flushing / Cleaning and Servicing bench for up to 4 injectors.

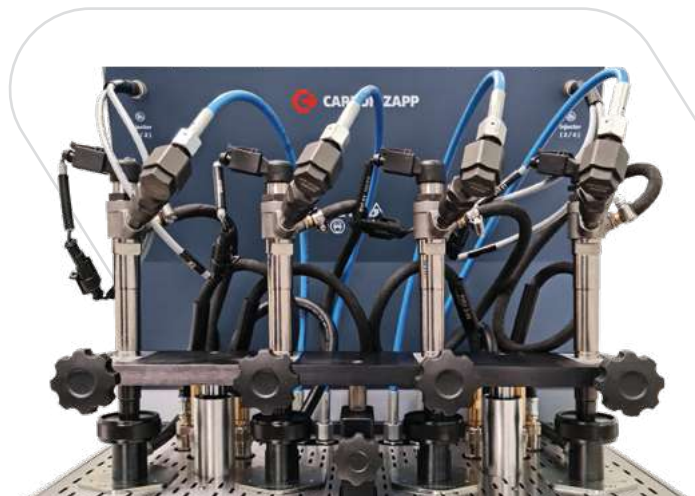
**CloudX**

→ **Features**

- A Continental/VDO Proposed Flushing Bench
- Xtremely Fast Flushing Times
- New Design for every Service Station
- Optimized Working Area to reduce Injector Set-up Times
- 1000Bar Operating Pressure
- EU6 Systems Capable
- CloudX Capabilities
- Off-Highways CR applications operation (John Deere, Komatsu, Hino, Isuzu)
- Cummins XPI, Caterpillar-Perkins C4/C6 and other Medium-Duty operation

→ **Diesel CRDi/Gasoline GDi Injector Flushing Bench**

- Ergonomic, Fast and Easy Injector Clamping device to minimize mounting times.
- Fully Adjustable height for all types of CRDi / GDi injectors.
- Utilizes a spring-loaded injector holder to ease the operation of the user.
- Advanced self air-cooling system to optimize long term nonstop operation at all environmental conditions.
- Adaptability for every type of Diesel Injectors in the market
- Android Powered 10" HMI with unlimited flexibility and connectivity competencies.



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

# SPAR

## Diesel System Test Bench

CZ Piezo Stack Filler, Air remover and Stack Activator is the only automatic solution to assure optimum servicing and operation of Piezo injectors today after being serviced by Diesel Specialists.

- Automatic and easy operation for 4 Piezo injectors at once
- Connects directly at the return port (backleak)
- Only needs single phase 100-250Vac
- Lightweight and portable solution
- Connects to any Carbon Zapp Test Bench
- High Flow Vacuum Power 10KPa and Pressure of 100KPa
- Automatic Start / Stop function with specific Test Plans
- Adaptability to all types of Piezo injectors



# SPECIALISTS

CRDi - Eui/EUP - HEUi - CRP  
ENGINE - GDi - EfI - GDi Pumps

## DGFR **X** → SPECIFICATIONS

	DESCRIPTION	UNIT	DGFR-X (CZ-007091)
Machine Dimensions	Length	mm	510
	Width	mm	780
	Height	mm	780
Weight		kg	66
HMI	Tablet Touchscreen	Inches	10
Internet Update	WiFi / Ethernet	-	YES / YES
Pressure Source	Type	Air Driven High Pressure Pump (DxL-ISO) ISO4113	
Test Oil	Type	Calibration Oil	
Test Oil Tank	Capacity	Liters	4
Flush Tank	Capacity	Liters	4
Max Pressure	Pressure	Bar	1000
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 - 8
Air Supply	Air Tank Capacity	Lt	200
	Air Flow	Lt/ Min	300
	Min Diameter at Air Supply Hose	mm	8
Main Power Supply	Air	Type	Water / Oil FREE
	Phases	Number	1
		TYPE	1P+N
	Voltage	VAC	100 - 240
	Frequency	Hz	50/60
Operating Temperature	Current	Ampere	5
	Max Consumption	kVA (100V/240V)	0.5 / 1.2
IVM Sensors	Min / Max Room Temperature	Celsius	6 / 35
	Measurement Sensors	Type / Quantity	-

→  
**PRESSURE SOURCES**  
 Air: Air Driven High Pressure Pump  
**APPLICATIONS**  
 Passenger Car/ Motorcycles: Volumes up to 120mm<sup>3</sup>/H  
 Light Duty: Volumes up to 200mm<sup>3</sup>/H  
 Medium Duty: Volumes up to 300mm<sup>3</sup>/H  
 Heavy Duty: Volumes up to 650mm<sup>3</sup>/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

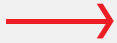
# EXPANDING CAPABILITIES



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**

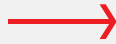


**/// CZ Base Trolley**



**/// 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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