

2018-19





Welcome to an Innovation Driven World



We always strive for excellence and innovation

Carbon Zapp is dedicated in manufacturing Automotive Injection Service Solutions, providing a worldwide sales network, investing constantly in R&D and offering efficient support. With today's exponential increase in the automotive industry, Carbon Zapp offers solutions for a healthier, less polluted environment, specializing in designing and manufacturing Diesel and Gasoline Injector Service Benches, that have become a standard for major OE's and general workshops.

As a global supplier to diverse users, with broad knowledge in the automotive industry and through teamwork and skillful personnel, Carbon Zapp is able to support your corporate vision and fulfill your market's needs.

Let's make together the first step towards future and success!

Nikolaos Pantazis

Managing Director
International Business

Dimitrios Pantazis

Managing Director Manufacturing





"We have earned our position to the global market because of our commitment to quality products and well known customer service. If we fail to provide satisfaction to our customers, we forfeit our right to their business. Carbon Zapp's Management and staff loyalty to this business makes it a win-win situation"

Bill Pantazis, Founder of Carbon Zapp

Our Company

Carbon Zapp was founded in 1989 by Bill Pantazis. As a leading manufacturer of Automotive Injection Service Equipment and Tools, Carbon Zapp has its production plant in Athens, Greece and a constantly growing global network in every continent. Recently, the company expanded in Germany by establishing its global headquarters and business administration.

Through a wide range of innovative products, including injector test benches for Diesel and Gasoline injection systems, Engine service equipment and tools, Carbon Zapp offers high quality equipment and customer service to automotive dealers, workshops and educational institutions, as well as for specialized developers, remanufacturers and most major automotive OE's. Carbon Zapp uses over 35% of its profits to update existing products with newer technological advancements and aims to provide simpler methods and tools for a safer environment.

Carbon Zapp today is the **VDO Authorized** global partner for Diesel Specialists to Diagnose and Service CRDi systems, holding the unique technology to correctly control with Energy and accurately test VDO EU5 Common Rail Injectors.

Our Mission

Carbon Zapp aims to provide user friendly, compact and time saving solutions to a wide range of operators, focusing in the automotive injection systems.

Innovation Driven Company

"Innovation" is the key to continuous growth and competitive advantage. Carbon Zapp "Drives" its research team to keep a high ambition level and work on their research, development and technical skills.

On an annual basis, the company invests more than 35% of its profits on research and development for upgrading existing and implementing new products. Carbon Zapp has fostered an extensive group of intellectual property and talented personnel throughout the years. Strategic agreements and world-class component suppliers have contributed in developing advanced technologies and products. in developing advanced technologies and products.

Our Customers

Diesel Service Centers

Auto Workshops / Dealerships

Automotive Aftermarket OEM's

Parts Remanufacturers

Automotive OE's

Developers

Innovation is the key to continuous growth and competitive advantage





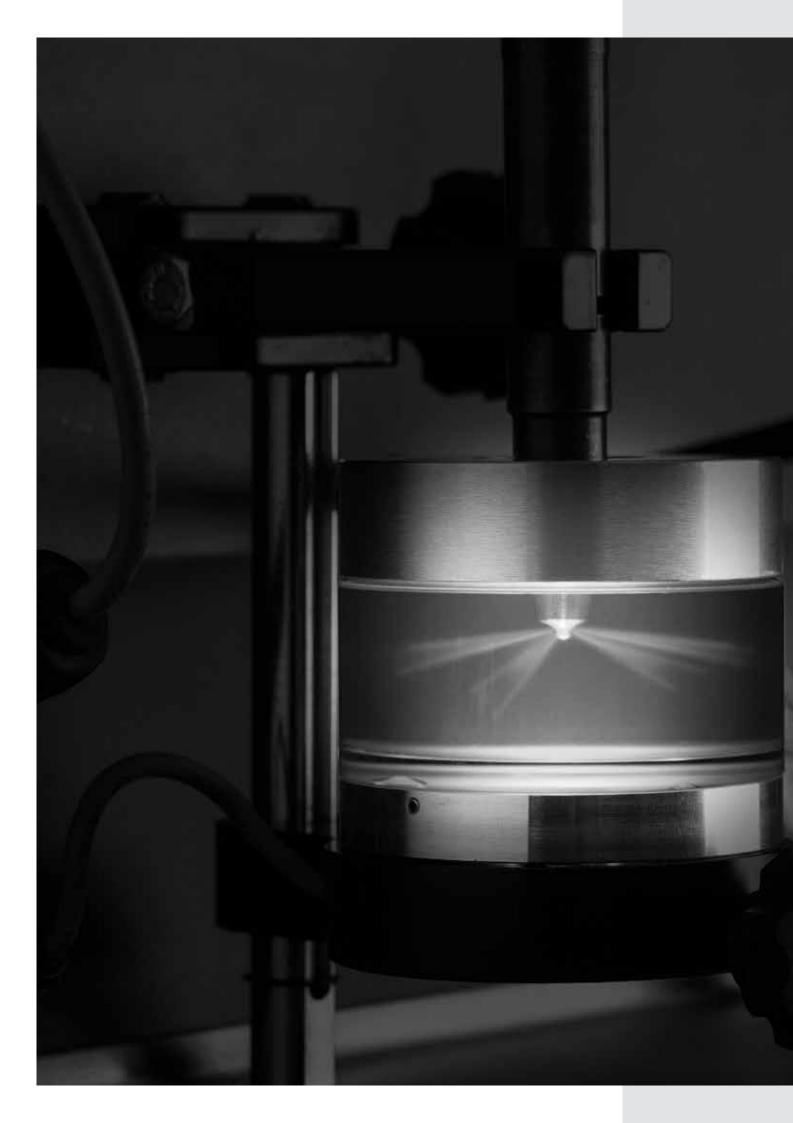
Support

At Carbon Zapp, customer satisfaction is a major priority. The staff offers the best service to increase customer trust, earn their loyalty and built their respect. The key to this success is to acknowledge the customers' needs and listen to them.

Global Sales Network

With a logistics center in Athens, Greece, Carbon Zapp can effectively export its products globally in all 5 continents and over 65 countries. The products are trusted internationally for their world class quality. Carbon Zapp takes pride in consistently delivering premium products and reliable customer services.









Discover Diesel & Gasoline Specialists Solutions

Innovative, Compact and Professional Solutions for every Diesel Specialist Workshop to Test and Service All Makes and Types of Heavy Duty, Light Duty and Passenger Car Fuel Injection Systems.

CRDi





CRp

Common Rail Diesel Pumps

EUi

Electronic Unit Injectors

EUP

Electronic Unit Pumps

HEUi

Hydraulic Electronic Unit Injectors

GDi

Gasoline Direct Injectors



*Special Function

MTBR

The Innovative Standalone Solution for the Diesel Specialist, capable to test every Automotive, Commercial, Industrial and Marine Injection System available in the market today.

Standalone Motor Driven Bench
High Pressures 2800 bar
NVcT: VCC / NCC / EU6 Needle
Control Testing
CRS.3-27 / CRS.2-25 / iArt / And more
EU6 Capable...
Compact Size for Every Laboratory
All Around 2400 work access
Fully Automatic and Fast Testing

Testing & Coding of All Types / Makes



*Special Function

The revolution in Test Benches In the Service World



DGS (19)

*Special Function



High Pressure Testing up to 2800Bar (EU6)

Controls NEW Generation CRI3-25 and CRI3-27 injectors with NCC and VCC technology

EU5 and EU6 systems testing [Denso I-Art (6-pin), VDO, etc...]

Injector Coding VDO IIC, Delphi C2i/C3i, Bosch IMA/ISA and Denso QR

VDO CR injectors (EU5) testing only with approved Energy Control by VDO

4 CRi/CRiN solenoid or piezo and up to 2 CRiN 4.2 injectors

Nozzle reaction time measurement for all systems via RSP sensor

Actuator Valve measurement via RSP/BIP sensor

All Makes/Types of CR pump. Special Applications CP4/ CAT/ CB18/ CB28/ CP2 etc...

Connects to any Cambox. Automatic function with complete database and test plans (Coding*) with the Hartridge HK-1400A Cambox powered by Carbon Zapp

Compact and robust Unit. 240° Efficient Working Area with Protective Hood fully opening

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

Connects to Carbon Zapp's HEUI-KIT.M2 solution for testing up to 4 HEUI's

Fully Automatic and fast testing phase through a 15" Touchscreen HMI with AZO software

CRDi Piezo Stack Regeneration function

Blue Limits Diagnosis for Diesel Specialists

Dynamic Electronic Mass (BK) Measurement (CRDi, HEUI, EUI/EUP)

Static Electronic Mass (DFAP) Measurement (CRp)

SPAR: Piezo Stack Filler after repair & re-Assembly (optional)

CGL: EU6 Piezo Stack Air Gap Measurement for SVC evaluation (future update - optional)

Internal cooling system (No water connection needed)

Emergency Stop function (Instantaneous electric brake)



Input frequency	50/60 Hz
Number of phases	3 P/PE
Speed range	0 – 6,500 rpm 12.5HP
Powerful Motor with thermal protection	-
Maximum operating ambient temperature	50°C
Base to axis center height	125 mm
High Pressure system Max Pressure	2800 Bar
Supply pump pressure	10 – 800 kPa
Test oil tank	38 L
Waste Oil tank	15 L
Dimensions (W x D x H) Weight	750 x 700 x 1610 mm 465 kg



*Special Function





CRDi

Fully test automatically 4 CRi/CRiN (CRiN 4.2) solenoid & piezo injectors And CR pumps up to 2800bar. For all types and Makes.



Cambox HK-1400A

Affordable yet full of features, The HK-1400A is highly accurate, robust, flexible and user friendly. The essential choice for any diesel workshop wanting to increase their EUI and EUP capability.



CR

All Makes/Types of CR pump. Special Applications CP4/ CAT/ CB18/ CB28/ CP2 etc



HEUI.Kit.M2

Test up to 4 HEUi injectors with a database and not comparatively. High and Low Pressure oil supply, return and HP oil overflow distribution.

A wide variety of adapters is available.

Comprehensive HEUI Applications in the market with test plans and database included.





MTBR - CAMBOX

The only Complete Standalone unit to test every Automotive, Commercial, Industrial and Marine Unit Injection System (UIS) available in the market today.







Compact Standalone Diesel Test Bench

Controls all Types and Makes of Unit Injectors & Pumps. Includes the markets greatest OEM and CZ Database and Test Plans

Automatic function with complete database and test plans (Coding*) with the Hartridge HK-1400A Cambox powered by Carbon Zapp

Cummins ISX / Scania HPI and Cummins QSK Test Plans

Easy and Oil free change of Cam (20sec) by use of the EZO-Kit (optional)

6 injectors testing in less than 1 hour

Compact and Robust Unit. 240° Efficient Working Area

Nozzle reaction time measurement for all systems via RSP sensor (optional)

Actuator Valve measurement via RSP/BIP sensor

Smart Injector / Pump (E3/E1/DAF) Coding coming soon

Fully Automatic and fast testing phase through a 15" Touchscreen HMI with AZO software

Dynamic Electronic Mass (BK) Measurement

Internal cooling system (No water connection needed)

Emergency Stop function (Instantaneous electric brake)



HK-1400A CAMBOX

Universal EUI & EUP Cambox. The New HK-1400A Cambox manufactured by Hartridge and powered by Carbon Zapp fits onto the MTBr and automatically tests completely all Heavy Duty EUi and EUP systems in the market today utilizing the continuously updated database that meets the OE standards.

Test every Automotive, Commercial, Industrial and Marine Unit Injection System (UIS) available in the market today.

Compact, lightweight and easy to operate Unit

Controls all Types and Makes of Unit Injectors & Pumps. Includes the markets greatest OEM and CZ Database and Test Plans with the use of Carbon Zapp's AZO software

Cummins ISX / Scania HPI and Cummins QSK Test Plans, $\,$

Easy and Oil free change of Cam (20sec) by use of the EZO-Kit (optional)

6 injectors testing in less than 1 hour

Nozzle reaction time measurement for all systems via RSP sensor (optional)

Actuator Valve measurement via RSP/BIP sensor Smart Injector / Pump (E3/E1/DAF) Coding coming soon

Blue Limits Diagnosis for Diesel Specialist







Extras and Optionals

The HK-1400A

has been engineered to be accurate and repeatable in testing Unit Injection Systems, yet is affordable for all Diesel workshops worldwide.

We offer a wide-range of easy to fit adapters for every UIS system. Finally, with the use of the EZO-Kit, changing the cam and its position has never been easier and oil mess-free.





Complete range of UIS Adapters

There is a wide-range of easy to fit adapters for every type and make of EUI and EUP injection systems in the market.



for Cummins ISX / Scania HPI and Cummins QSK Test Plans and Adaptability



TBCR

to 2800 bar

Laboratory

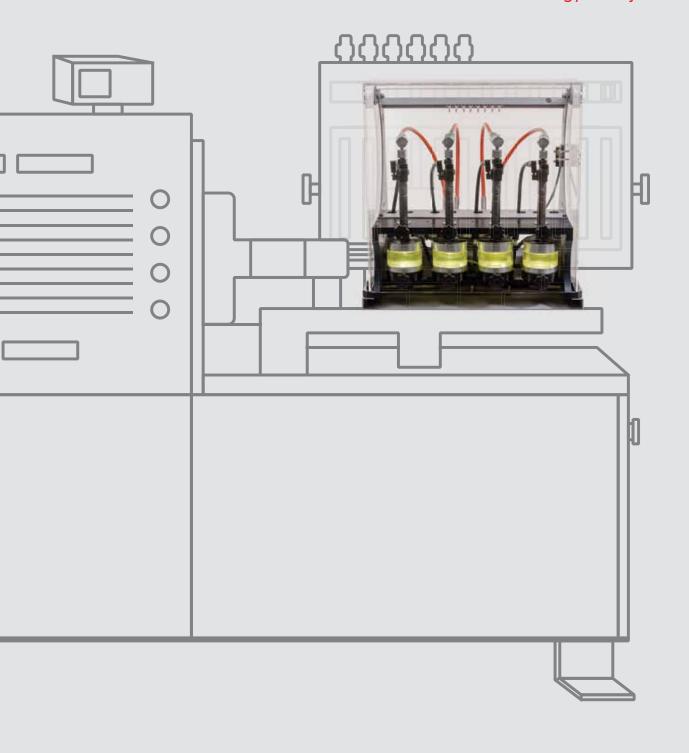
Carbon Zapp's Revolutionary TBCr Simulator provides the capability for every Conventional Test Bench out in the market to renovate and test All Makes and Types of CRDi - CRp - EUi - EUp -HEUi systems.





*Special Function

Test bench Common Rail Kit.
The unique, compact and
Universal solution for every
Conventional Test Bench in the
market to operate with the latest
technology CR injectors.





TBCR

Works with every Conventional TestBench in the Market

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

Electronic Measurement and Coding for Conventional Test bench

Connects to any Cambox. Automatic function with complete database and test plans (Coding*) with the Hartridge HK-1400A Cambox powered by Carbon Zapp

High Pressure Testing up to 2800Bar (EU6) with BCR-Kit (optional)

Controls NEW Generation CRI3-25 and CRI3-27 injectors with NCC and VCC technology

EU5 and EU6 systems testing [Denso I-Art (6-pin), VDO etc...]

Injector Coding VDO IIC, Delphi C2i/C3i, Bosch IMA/ISA and Denso QR $\,$

VDO CR injectors (EU5) testing only with approved Energy Control by **VDO**

4 CRi/CRiN solenoid or piezo and up to 2 CRiN 4.2 injectors

Nozzle reaction time measurement for all systems via o-RSP sensor

Actuator Valve measurement via RSP/BIP sensor

All Makes/Types of CR pump. Special Applications CP4/CAT/CB18/CB28/CP2 etc...

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

Connects to Carbon Zapp's HEUI-KIT.M2 solution for testing up to 4 HEUI's

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

CRDi Piezo Stack Regeneration function

Blue Limits Diagnosis for Diesel Specialists

Dynamic Electronic Mass (BK) Measurement (CRDi, HEUI, EUI/EUP)

Static Electronic Mass (DFAP) Measurement (CRp)

SPAR: Piezo Stack Filler after repair & re-Assembly (optional)

Internal cooling system (No water connection needed)

Emergency Safety Stop function

Compact, Lightweight and Portable Unit

The Advanced
Test Bench simulator
that renews every
Conventional Bench
in the market today.
Coding made easy and
affordable for Every
Diesel Specialist.





BCR-KIT

Test bench Common Rail Kit. The unique, compact and Universal solution for every Conventional Test Bench in the market to operate with the latest technology CR injectors, HEUI Injectors, GDi injectors and CR pumps.

Easy Clamp-on for 4 CRi injectors / 4 CRiN / 4 GDi / 4 HEUi (17-19-21-24mm) or 1 CRp

Conventional Testbench base bolt-on feature

Clear protective hood with safety switch

High Pressure Rail - 2800Bar, HP pressure regulator & sensor

4 x HP flexible hoses 3000Bar with 90-degree swivel & accumulator

 $1\,\mathrm{x}$ HP flexible hose 3000Bar with 90-degree swivel & accumulator for CR pump

4 x Led illuminated adjustable Spray Chambers

Connects to any CRDi Simulator. Recommended for TBCR operation





DCDR / DCDSR

Carbon Zapp's Revolutionary DCD / DCDS Diesel Injector Coder and Simulator provides the capability for every Standalone or Conventional Test Bench out in the market to renovate and test efficiently All Makes and Types of Common-Rail Injectors up to 2800Bar after being serviced by Diesel Specialists.

The **Affordable Coding**Solution for Everyone

Standalone Diesel Bench Attachment Unit
NVcT: VCC / NCC / EU6 Needle Control Testing
CRS.3-27 / CRS.2-25 / iArt / and more EU6 Capable...
Compact Size for Every Laboratory
Testing & Coding of All Types / Makes

Diesel Specialists Choice



View CZ DCDR Tutorial Video



Visit our YouTube channel and watch our new CZ Diesel Test Benches videos https://goo.gl/jkoheF





new

Works with every Standalone & Conventional TestBench in the Market

Controls all Types and Makes of Injectors. Includes OEM Database and Test Plans for 1 CRi/CRiN / CRiN 4.2 / HEUi solenoid or piezo

Electronic Measurement and Coding for every Test bench

Controls NEW Generation CRI3-25 and CRI3-27 injectors with NCC and VCC technology

EU5 and EU6 systems testing [Denso I-Art (6-pin), VDO, etc...]

Injector Coding VDO IIC, Delphi C2i/C3i, Bosch IMA/ISA and Denso QR

VDO CR injectors (EU5) testing only with approved Energy Control by **VDO**

Nozzle reaction time measurement for all systems via RSP sensor

Actuator Valve measurement via RSP/BIP sensor

Fully Automatic and fast testing phase through a 8" Touchscreen HMI with AZO software

CRDi Piezo Stack Regeneration function

Blue Limits Diagnosis for Diesel Specialists

Static Electronic Mass (DFAP) Measurement

Emergency Safety Stop function

Compact, Lightweight and Portable Unit

Connects to any Cambox. Automatic function with complete database and test plans (Coding*) with the Hartridge HK-1400A Cambox powered by Carbon Zapp (optional-future update)

High Pressure Testing up to 2800Bar (EU6) with BCR-Kit (optional)





Z-CODR

Carbon Zapp's Innovative tablet provides the information for every workshop using a Standalone or Conventional Test Bench out in the market to utilize the test plans and database and finally the Coding capability for all Makes and Types of Diesel Systems in the market.



The Affordable Coding Solution for Everyone

Includes OEM Database and Test Plans for all Types and Makes of Injectors & Pumps in the market {Testing Capability and precision is only as accountable as the unit tested on)

Provides a comprehensive Coding Solution for every Test bench. (Coding correctness and accuracy is only as accountable as the unit tested on)

Test plans for NEW Generation CRI3-25 and CRI3-27 injectors with NCC and VCC technology

Test plans for EU5 and EU6 systems testing [Denso I-Art (6-pin), VDO, etc...]

Injector Coding VDO IIC, Delphi C2i/C3i, Bosch IMA/ISA and Denso QR

All Makes/Types of CR pump. Special Applications CP4/ CAT/ CB18/ CB28/ CP2 etc...

Blue Limits Diagnosis for Diesel Specialists



new

SPAR

Carbon Zapp Piezo Stack Filler, Air remover and Stack Activator is the only complete 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 for use of appropriate Test Plans

High Flow Vacuum Power 10KPa and Pressure of 100KPa

Automatic Start / Stop function

Adaptability to all types of Piezo injectors





DSF.4R

Flushing / Cleaning and Servicing bench for 4 Diesel Injectors

Up to 2000Bar HP with 6 bar air supply

Controls all Types and Makes of Injectors.

Fully Automatic and fast cleaning phase

Diesel Specialist usage before testing injectors on OE test bench

8" Touchscreen HMI

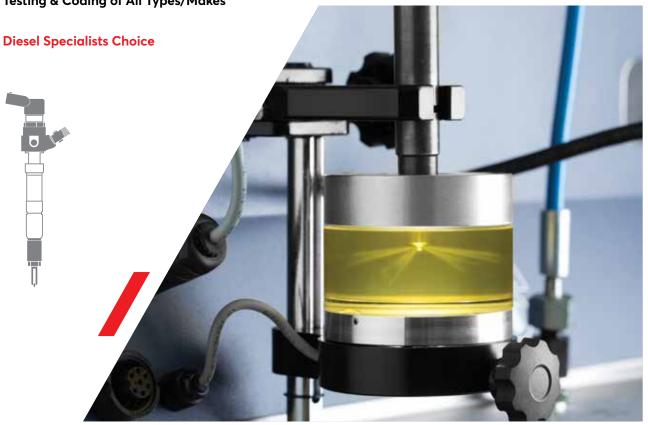
CRDi Piezo Stack Regeneration function



CRU.4R / CRU.2R

Common Rail Revolutionary testing solutions for BOSCH, DELPHI, DENSO and VDO, Heavy Duty and Light Duty applications. All types Piezo, Solenoid & Dual-Solenoid actuators.

Standalone Air Driven Bench
High Pressures 2800 bar
NVcT: VCC / NCC / EU6 Needle
Control Testing CRS.3-27 / CRS.2-25
/ i-Art and more Capable
Compact Size for Every Laboratory
Fully Automatic and Fast Testing
Testing & Coding of All Types/Makes





High Pressure Testing up to 2800Bar (EU6) with only 6.5 Bar Air supply input

VDO CR injectors (EU5) testing only with approved Energy Control by **VDO**

Tests New EU6 Generation CRI3-25, CRI3-27, Denso I-Art(6-pin) and more with NCC and VCC technology

Injector Coding VDO IIC, Delphi C2i/C3i, Bosch IMA/ISA and Denso QR $\,$

Nozzle reaction time measurement for all systems via RSP sensor

Efficient Working Area with Protective Hood fully opening

The fastest and easiest clamping of injectors in the market

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

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

CRDi Piezo Stack Regeneration function (wake-up)

Blue Limits Diagnosis for Diesel Specialists

Dynamic Electronic Mass (BK) Measurement

Connects to Carbon Zapp's HUIR solution for testing HEUI Systems

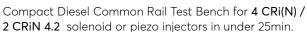
Dual System - Flushing / Cleaning system using detergents and Ultrasonics

Emergency Safety Stop function











Compact Diesel Common Rail Test Bench for 1 CRi(N) / 1 CRiN 4.2 solenoid or piezo injector in under 7min



HUIR - A

A fast and easy to operate solution to fully diagnose Hydraulic Unit Injection Systems is now available for Diesel Specialists as an attachment unit to their CRU.2r/ CRU.4r Common Rail machine.

Controls all Types and Makes of HEUI Injectors.

Test & Service Attachment bench for 1 HEUI Diesel Injector up to 300Bar, Solenoid & Dual-Solenoid

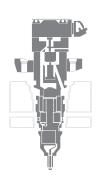
Semi-Automatic Operation Under 8min testing phase

Nozzle reaction time measurement for all systems via RSP sensor (optional)

Blue Limits Diagnosis for Diesel Specialist

Includes Database and Test Plans for most HEUI injectors in the market today

Electronic Measurement via the CRU.2r/ CRU.4r Test Bench



HEUI Applications

Caterpillar 3126, 7.3L, Caterpillar C7/C9, Ford Powerstroke 6.0L, 7.6L, 9.3L Navistar Isuzu Trooper and more...

















Repair Tools

Assembly/Disassembly and Repair Tools for: Diesel Common Rail Injectors Diesel Common Rail Pumps



GDU.4R / GDU.2R

The only professional solutions for OE's, Remanufacturers and workshops to test & service Gasoline Direct Injection Systems. Gasoline Direct Injection (GDi) requires high pressure testing to truly diagnose injector operation faults.

systems

Bosch, VDO, Delphi, Hitachi, Denso and others

GDI / FSI / HPI / CGI / JTS / IDE / SCI / HPDI / DISI / SIDI etc.









Carbon Zapp's Innovative Standalone Test benches provide still the only complete testing solution in the market today, with a unique database. The Experience, Seniority and Working closely with the OEM's the last 15 years has given us the advantage to develop test plans and diagnose problems according to the OEM expectations. High Pressure Testing up to 850Bar (EU6 / EU7 prospect) with only 5 Bar Air supply input

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)

VDO / Siemens GDi injectors (EU5) testing only with approved Energy Control by \mathbf{VDO}

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

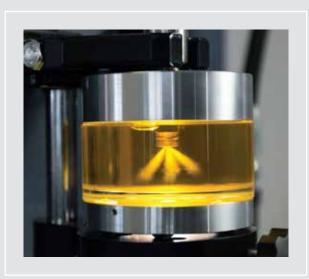
Reverse flushing adapter and function with 25Bar pressure

Blue Limits Diagnosis for Specialists

Dynamic Electronic Mass (BK) Measurement

Prepared for Future Injector Coding

Emergency Safety Stop function





Compact Gasoline DIRECT Injector GDi Test Bench for servicing 4 solenoid or piezo injectors in under 15min.



Compact Gasoline DIRECT Injector GDi Test Bench for servicing 1 solenoid or piezo injectors in under 5min.

CZ Technologies

Tests Performed

Electrical actuator test for $k\Omega/\mu F$, $\Omega/\mu H$

Check For internal and external Leaks

NLT

High Pressure Nozzle Leakage

Static Back Leakage (Overflow) measurement

aNOP

Automatic Nozzle Opening Pressure

iVM (FL, PL, EM, LL, PI)

Injector Volume Measurements (full-load, part-load, emissions, low-load, pre/ post-injection.)

iVM-aDFi

Injector Volume Measurement Performance Ramp (multiple testpoints slope / different Pressure points)

Injector Nozzle Response Time

BIP [EUI / EUP systems]

Injector / Pump Control Valve Response Time for Unit Injection Systems

SPR

Dynamic Spray Test performed in all testing conditions up to 2800Bar

Extra Tests

High pressure Control Valve operation (DRV, IMV, VCV, PCV, etc...) High Pressure Sensor reaction, High Pressure relief safety valve operation CR Pump flow limiter valve operation (ZME, IMV, SCV.)

Multiple Injection Metering (up to 8 fully programmable delay and overlap times)

Features

AZO Software

Advanced Android based HMI/PC, Wi-Fi printing, sharing, syncing, software/ hardware & database updating, via USB or Wi-Fi, Real-time Oscilloscope and CSV data export

Reports

Easy fail-track color report for each component tested. Single-page Quick report or Multi-page Analytic reporting

aMACC Flushing / Cleaning function

Automatic chemical treatment and flushing of the injector before testing under high pressure and using a specially formulated detergent

RSP / BIP

Response Sensor (RSP) adaptable to all Injector Nozzles

Response Sensor (BIP) adaptable to all Control Valves [EUI/EUP].

Precise measurement of Control Valve & Nozzle reaction time to easily diagnose a slow acting injector, a retarded injection event, poor engine performance and emissions issues."







2. DFAP

Electronic Measurement

1. Dynamic Electronic Mass Measuring Sensor (BK). Ramp function capable for aDFI function, Injector Coding Capable, Acc: 0.2%FS, repeatability: 0.05%. Fast and Accurate Measurement with Coriolis technology

2. Static Electronic Mass Measuring Sensor (DFAP) Acc: 0.6%FS, Accurate and Repeatable Measurement with Differential Absolute Pressure Technology

Extras/optionals

Adapters Kit

CRDi Solutions

A complete range of CRIN adapters kits for Heavy Duty applications are available. Commercial, Industrial, Marine applications and continuously being updated and released.



Adapters GDi Kit

Complementary set of GDi adapters, fittings and connectors for the most commonly tested injectors in the market today. A wide variety of additional GDi adapters is available for all Makes & Types.



Adapters kit

A Wide range of CRDi overflow connection fittings, pressure Regulators, electrical connectors and more required to adapt to All makes and Types of Injectors is provided. For MTBr units the Standard Adapters for Bosch CP1/CP3 and most common Applications of VDO, Denso and Delphi are included.



GDi LP-Kit

Low Pressure Gasoline kit is now available





HEUI Systems

A complete range of HEUI adapter kits, wiring harnesses and more are available for: CAT C7/C9, CAT 3126 / Navistar, CAT 3406, Ford Powerstroke, Isuzu Trooper and more.



Heavy Duty Solutions EUI/EUP Systems

A complete range of EUI/EUP adapter kits, cams, rods, wiring harnesses and more are available. New systems are being continuously released for Smart injector/pumps and more.



HEUI.Kit.M2

A Kit to connect up to 4 HEUi injectors. Distribution of low Pressure oil supply & return pump and a wide variety of adapters is available. Comprehensive HEUI Applications in the market with test plans and database included for CAT C7/C9, CAT 3126 / Navistar, CAT 3406, Ford Powerstroke, Isuzu Trooper and continuously being updated.





Extras/optionals

Adapters Kit

CRp CP3.3/3.4 Kit

A complete kit including Clamping bracket, flange, coupling and fittings to fully test and control the Heavy Duty Application Bosch CP3.3 and CP3.4 Common rail pump. (Requires CPL-Kit)



CRp -CAT

A complete kit including Clamping bracket, flange, coupling and fittings to fully test and control the CAT Common rail pump. (Requires CPL-Kit)







CRp-CP4 Kit

A complete kit including Clamping bracket, flange, coupling and fittings to fully test and control Bosch CP4.1 and CP4.2 Common rail pumps. (Requires CPL-Kit)



CRp-CB18/CB28 Kit

A complete kit including Clamping bracket, flange, coupling and fittings to fully test and control the Asian Applications Bosch CB18 and CB28 Common rail pumps. (Requires CPL-Kit)



CPL-Kit

Adjustable low pressure engine oil supply kit for lubrication of Heavy Duty CR pumps. Portable 12VDC operation. Adapts to any test bench in the market.



CRp-IP.3 Kit

A testing kit to adapt to All Makes CR Pumps and measure the internal Low Pressure supply pump as well as the vacuum made from the CR pumps. Includes couplings and fittings for Bosch, Delphi and generic application pumps.



CRp-Standard Adapters Kit

A complete kit including Clamping bracket, flange, coupling and fittings to fully test and control the most commonly used Heavy Duty Application Bosch CP1 and CP3.

CRp -VDD (VDO-DENSO-DELPHI)

An extensive range of every Clamping bracket for all Types and Makes CR pumps for passenger cars, light duty and heavy duty applications is available.



Ultrasonic Devices

Ultrasonic Baths are available at sizes up to 120L featuring:

42KHz frequency

Sweep technology*

Degas function*,

Controlled Heater and more...



Oils & Fluids

- 1. Diesel Injector Calibration Oil (ISO4113)
- 2. Gasoline Injector Calibration Oil (Exxsol 40/60 equivalent)
- 3. Ultrasonic Solvent (Concentrated) 4L|20L|208L
- 4. Diesel / Gasoline Injector Cleaning Detergent 2L|25L"

Portable stand

Compact, lightweight, robust with accessories cabinet







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