

GDU.4R

INJECTION SOLUTIONS

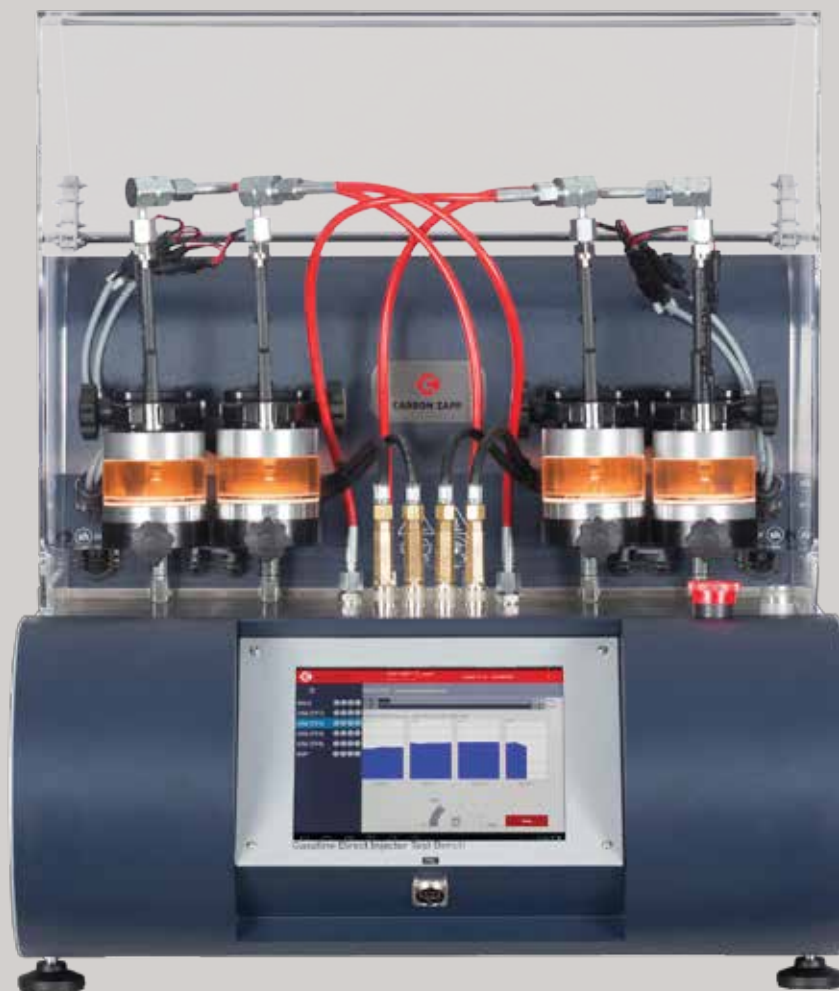
Gasoline Injection Systems

The only professional solutions for OE's,
Remanufacturers and workshops to test
& service Gasoline Injection Systems

5 Direct Injection Solutions

Gasoline direct injection requires high pressure testing to truly diagnose operation faults. Carbon Zapp once again provides the only complete testing solution in the market today, with the Revolutionary GDU.4r, GDU.2r and GD1r Test benches.

GDU.4R





GDU.4R

Test bench for 4 Direct Injectors

Up to 850Bar* HP with 6.5 bar air supply

Test bench for 4 Conventional MPFi or
4 Racing application Injectors 0-10Bar

Gasoline Expert level of Diagnosis

Dynamic Electronic Mass Measurement (BK)

Acc: 0.2%FS, repeatability: 0.05%

Under 15min testing phase

Fully Automatic Operation

Flushing / Cleaning capability*

10" Touchscreen HMI

Ultrasonic cleaning function

VDO/Bosch/Denso Piezo

Stack Regeneration function

CGL: VDO Automatic

Valve Lift Gap Measurement

Blue Limits Diagnosis



Tests Performed

R2LC

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

CFL

Check For Leaks test (injector internal or external)

NLT

Nozzle Leakage Test @High Pressure

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

Injector Volume Measuring test
(full-load, part-load, emissions, low-load,
pre/post-injection tests and more...)

RSP

Injector nozzle Response-time test

SPR

Dynamic Spray test performed in all testing conditions

Features

iPSC

Illuminated Pressurized spray chamber
View of injection pattern up to 1000Bar
Visually diagnose NOP, incorrect spraying, leaky / seized injectors

RSP

Sensor adaptable to all nozzles
Precise measurement of nozzle reaction time
Easily diagnose a slow acting injector, a retarded injection event, poor engine performance and emissions issues.

AZO Software

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

Reports

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

Specifications

All Makes OE, CZ & User Database

Developer and OE customizing

Piezo & Solenoid programmable actuation profiles

(HV: 0-300 Volts / 0-35A)

Injector & PCB protection circuit
StG, StB, SC, OC, IC)

Multiple Injections capability

User friendly, ergonomic, dynamic & robust design

Spill-free hose quick connectors

aMACC – Automatic chemical treatment and flushing of the injector before testing*

Complementary set of GDi adapters, fittings and connectors for all makes & types



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