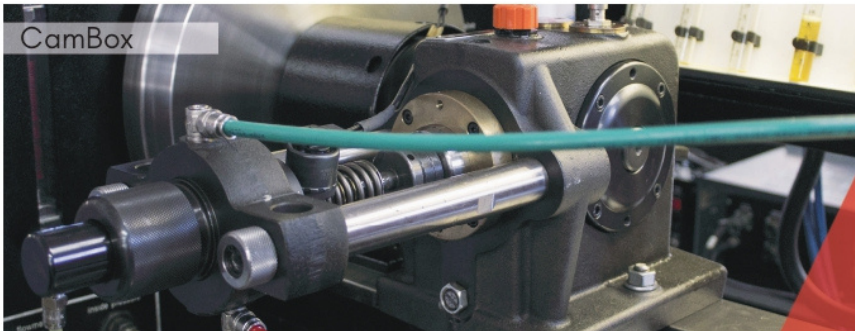
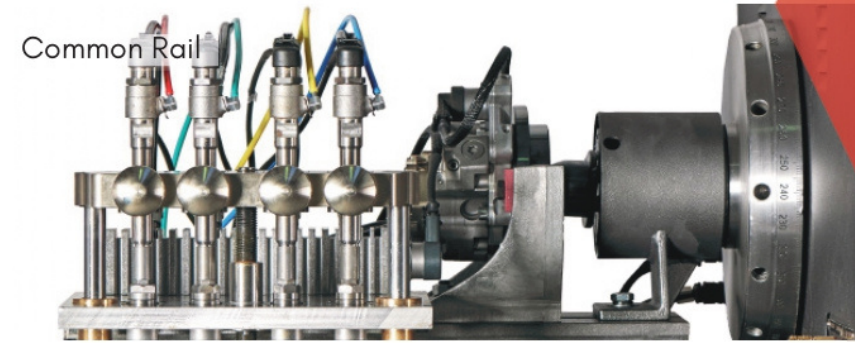


KDIESEL

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CamBox

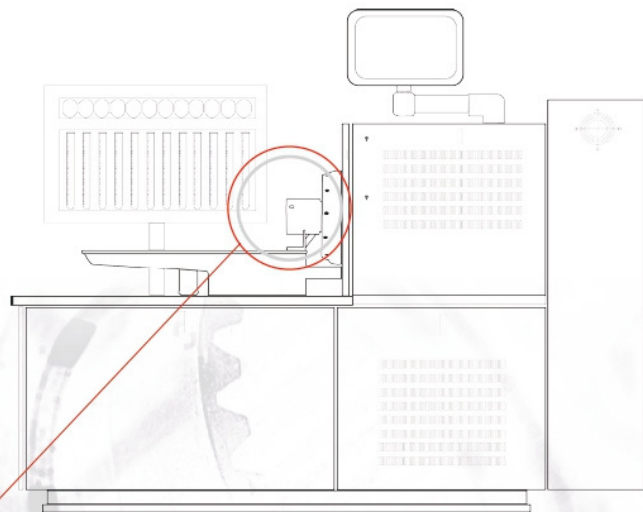


Common Rail

AN EASY SOLUTION FOR YOUR TRADITIONAL TEST BENCH

A **classic KDiesel product** that has been in the market for more than 15 years is the equipment dedicated to **upgrade** your Traditional Test Bench and **turn it in a modern equipment for testing**: C.R. Diesel Injectors, C.R. Diesel Pumps, EUI/EUP/PDE/MUI, HEUI systems & more. The equipment configuration is composed from a **SIMULATOR*** and the appropriated KIT available for each application.

According to your needs you can **compose your own solution** with the help of our table available on the following pages.



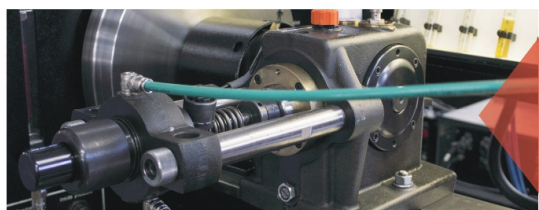
"A classic KDiesel to upgrade your traditional Test Bench"

This equipment is designed to **be easy and interactive used** with **automated procedures**, providing all the technical data needed to diagnose and print the final self-certification report. Although **extremely sophisticated**, it does not require any special knowledge of PC usage.

The **solution proposed by KDIESEL** is a **modular solution** that can be purchased in one single solution or "step by step" and allows the diagnosis of the diesel injection systems.

KDIESEL

Fuel Injections Solutions



TEST BENCH SOLUTIONS FOR EUI/EUP/MUI/PDE SYSTEMS

BOSCH® - DELPHI® - VDO®
- CAT® - PERKINS® - CUMMINS®
- DETROIT® - DEUTS®

KDIESEL PRESENTS THE EQUIPMENT FOR THE DIAGNOSIS OF MODERN DIESEL SYSTEMS UIS, EUP, MUI & PDE:

- Delphi E3 - E1, DAF, Scania
- Volvo (Bosch & Delphi), John Deere, Iveco
- VW PDE Bosch & Siemens
- CAT, Cummins Celect, Detroit Diesel S50 - 60, Cummins N14
- Mercedes Actros & Atego, Mack, Deutz & more

APPLICATIONS

Passenger cars,
Heavy Duty Truck
Buses
Marines
Agriculture
Industrial Equipment
Trains

CHARACTERISTICS

Piezo Electric System VW
BIP (Beginning Injection Point)
Double coil Delphi E3
Smart Injectors

“My choice? KDiesel.”

FEATURES

- ▶ No mechanical adjustments
- ▶ Quick clamp (1 minute), directly on the Test Bench
- ▶ Work program selection: Automatic/Semiautomatic/Manual
- ▶ Printing Report with values, easy to understand
- ▶ Injector response time - with optional 0004031
- ▶ Missing Spray Detection - with optional 0004031
- ▶ Diagnose Electrical Coil Conditions (Graphic Display)
- ▶ Database available
- ▶ Continuously updated data's
- ▶ TeamViewer, Skype & WhatsApp Support and Assistance
- ▶ Dedicated software: “KDSIMULATOR”

The equipment designed by KDiesel engineers is user-friendly, extremely simple and fast when changing application from one to another type. A large range of adapters for the testing is available on request. A dynamic printout of test results is available at the end of the tests. All test results can be saved on your PC.



INCLUDED ACCESSORIES as photo

OPTIONAL ACCESSORIES

- | | |
|-----------|------------------------------------|
| 0004031 | Piezo electric sensor |
| 000231630 | BIP Detector for any Cam Box |
| 0003690 | Trolley |
| Adaptors | Complete list available on request |

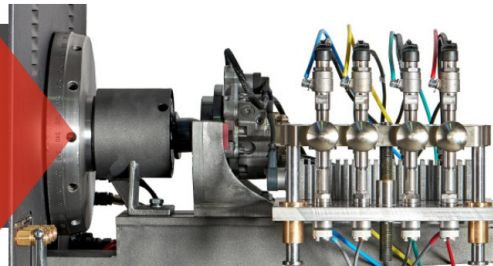
- * TRADITIONAL TEST BENCH MINIMUM REQUIREMENTS FOR CAM BOX:**
- ▶ Minimum power of 7,5 KW
 - ▶ Fuel pump with a stable pressure minimum 6 bar
 - ▶ Minimum feed rate 3.5 liters/min
 - ▶ Flywheel mass of 50 Kg/m
 - ▶ Speed Range 0 - 1000 rpm
 - ▶ Measuring system 2 - 500 cc/1000 strokes

K DIESEL

Fuel Injections Solutions

TEST BENCH SOLUTIONS FOR COMMON RAIL SYSTEMS

BOSCH® - DELPHI® - DENSO® - VDO® - CAT® - PERKINS®



Our Equipment for Common Rail systems is suitable to all the Traditional Test Benches for diesel injection, with a minimum power of 10KW.

The KDiesel diagnostic KIT identifies exactly the defective part, allowing to replace only the affected party with an significant economic savings.

Our Equipment is suitable to all the Traditional Test Benches* for diesel injection. Thanks to the easy reading of the delivery, at different rpm and frequencies, as well as the full control of the solenoid coil, the system allows the immediate identification of damaged components present in the controlled unit.

FEATURES

- ▶ Quick clamp (1 minute), directly on the Test Bench
- ▶ Work program selection: Automatic/Semiautomatic/Manual
- ▶ Printing Report with Values, easy to understand
- ▶ Injector response time - with optional 0004033
- ▶ Missing Spray Detection - with optional 0004033
- ▶ Diagnose Electrical Coil Conditions (Graphic Display)
- ▶ Database available
- ▶ Continuously updated data's
- ▶ TeamViewer, Skype & WhatsApp Support and Assistance
- ▶ Dedicated software: "KDSIMULATOR"

INCLUDED ACCESSORIES

as photo



OPTIONALS ACCESSORIES

- 0003690 Trolley
- 0004033 Piezo electric sensors
- 0004022 Safety protection
- Wide range of flanges and coupling for pump all makes
- Delphi Coding C2i & C3i
- IMA Bosch Coding
- Denso Coding
- Adaptors CRIN - Complete list available on request

PUMPS

- Pumps Bosch CR CP1&CP3
- Pumps Bosch CR CP2
- Pumps Bosch CR CP4
- Pumps Delphi CR
- Pumps VDO/CONT CR
- Pumps Denso CR HP2&HP3
- Pumps Denso CR HP0
- Pumps Denso CR HP4
- Pumps CAT/Perkins CR
- Pumps Scania/Cummins CR

INJECTORS

- Injectors Bosch CRI & CRIN
- Injectors Bosch CR Piezo
- Injectors Delphi CR
- Injectors Denso CR
- Injectors VDO/CONT CR
- Injectors CAT/Perkins CR

PERFORMANCES FOR PUMPS

- Backflow measurement
- Backflow temperature measurement
- Delivery flow quantity measurement at:
 - Full Load ◀
 - Partial Load ◀
 - Low Load ◀
- Testing pumps' valves (SCV's, IMV's, PCV's, DRV's, ZME's, EAV's)
- Final or intermediary report
 - 10 minute test cycle

PERFORMANCES FOR INJECTORS

- Minimum Opening Pressure Detection
- Minimum Opening Time Detection
- Injection quantity measurement at:
 - ▶ Pre - Injection (VE)
 - ▶ Idling (LL)
 - ▶ Emission (EM)
 - ▶ Full Load (VL)
- Nozzle & Return Leak Test
- Response Time Detection (sensors with optional 0004033)
- Missing Spray Detection (with optional 0004033)
- Diagnose Electrical Coil Conditions (Graphic Display)
- Final or intermediary report
- Repair Tips where test failed

APPLICATION

- Light and Heavy Duty ◀ Common Rail
- Piezo/Solenoid/PERKINS/ ◀ CAT and others more

CHARACTERISTICS

- ▶ Test Data available for Bosch, VDO, Delphi, Denso & others
- ▶ The biggest in the market
- ▶ OE Manufacturer compatible
- ▶ Ability to create and store customized Test Plans through Test Plan Creator function
- ▶ Continuously updated data's

K DIESEL

Fuel Injections Solutions

COMPOSE YOUR EQUIPMENT IN COMPLETE AUTONOMY

APPLICATIONS	OUR RANGE OF SIMULATORS			
	000235002 Universal	000235003 Universal	000231635 Specific	000231640 Specific
Common Rail	✓	✓	✗	✗
Bosch C.R. Pumps CP1 & CP3	✓	✓	✗	✗
Bosch C.R. Injectors	✓	✓	✗	✗
Bosch C.R. Pumps CP2	✓	✓	✗	✗
Bosch C.R. Pumps CP4	✓	✓	✗	✗
Delphi C.R. Pumps	✓	✓	✗	✗
Delphi C.R. Injectors	✓	✓	✗	✗
Denso C.R. Pumps HP0	✓	✓	✗	✗
Denso C.R. Pumps HP2 & HP3	✓	✓	✗	✗
Denso C.R. Injectors	✓	✓	✗	✗
Siemens (VDO) C.R. Pumps	✓	✓	✗	✗
Siemens (VDO) C.R. Injectors	✓	✓	✗	✗
Perkins/CAT C.R. Injectors	✓	✓	✗	✗
Perkins/CAT C.R. Pumps	✓	✓	✓	✓
Scania C.R. Pumps	✓	✓	✗	✗
Systems UIS/PLD - EUI/EUP	✓	✓	✓	✓
Complete Test	✓	✓	✓	✓
Piezo Sensor/Missing Spray	✓	✓	✓	✓
BIP	✓	✓	✓	✓
Double Coil	✗	✓	✗	✓
Smart Injector Delphi	✗	✓	✗	✓
Codings	✓	✓	✗	✗
Bosch Coding IMA	✓	✓	✗	✗
Delphi Coding C2I & C3I	✓	✓	✗	✗
Denso Coding	✓	✓	✗	✗
L'Orange Injectors	✓	✓	✓	✓
HEUI Injectors	✓	✓	✓	✓
MTU Injectors	✓	✓	✓	✓

RANGE SIMULATORS

► **000231635 Advanced Performance: dedicated systems UIS/EUI/MUI/PDE/HEUI/L'ORANGE/MTU**

This new generation simulator allows to test systems UIS/EUI/MUI/PDE Solenoid & Piezo quickly and efficiently. The applications HEUI, L'Orange and MTU are available as optional.

This simulator allows to test systems Double Valve E3 Delphi Injectors in a basic modality.

► **000231640 Last Generation - Top Performance - dedicated systems UIS/EUI/MUI/PDE/HEUI/L'ORANGE/MTU**

This new generation simulator adds to the performances of its previous 000231635 the test of the newest Double Valve Delphi E3 quickly and efficiently, testing the two valves with separate and different time.

► **000235002 Advanced Performance - Universal simulator**

Same performances as 000231635 UIS/EUI/MUI/PDE/HEUI/L'ORANGE/MTU, with the possibility to install Common Rail Injectors and Pumps applications as well.

► **000235003 Top Performance Universal - Universal simulator**

Same performances as 000231640 UIS/EUI/MUI/PDE/HEUI/L'ORANGE/MTU, with the possibility to install Common Rail Injectors and Pumps applications as well.



Universal simulators **000235002/03** can be used as stand-alone equipment.

A compact solution, supplied as optional, consists of **0003690** trolley, equipped with an industrial PC with touch screen, a printer and embedded simulator.

This composition will help you to optimize the way you operate and manage your system within your workshop.

*** TRADITIONAL TEST BENCH MINIMUM REQUIREMENTS FOR COMMON RAIL SYSTEMS:**

- Minimum power of 7,5 KW
- Fuel pump with a stable pressure minimum 6 bar
- Minimum feed rate 3.5 liters/min
- Flywheel mass of 50 Kg/m
- Speed Range 0 - 3000 rpm
- Measuring system 2 - 500 cc/1000 strokes