



ELKOSO®

AUTOMOTIVE MANUFACTURING SOLUTIONS



PERCOTRONICS®
Electrónica & Tecnología Automotriz

Elkoso thrives on collaboration, partnering with **global leaders** in the automotive Industry and **industry experts**.

These strategic alliances enable us to exchange knowledge, stay ahead of emerging trends, and **innovate**, ensuring our products consistently exceed customer expectations and meet market demands.

OUR COLLABORATIONS



PERCOTRONICS®
Electrónica & Tecnología Automotriz

We are proud of our strategic partnership and distribution with Percotronics Cia. Ltda. for Europe, Middle East and Africa*, a pioneer in diesel fuel injection systems. Together, we are charting a course towards advanced diagnostics, precise solutions and unparalleled performance in this dynamic industry. Our comprehensive coverage extends across all systems and is complemented by exclusive training opportunities, ensuring our customers receive the maximum expertise and support.





ELKOSO[®]

AUTOMOTIVE MANUFACTURING SOLUTIONS



NEW CONTROLLER FOR
INJECTION PUMPS

STANADYNE
MODEL DE & DS



DE & DS
PERCOTRONICS



- Rapid diagnosis •Check and adjust with Oem calibration data
- Compatible with all test banks
- Tool kit included

The STANADYNE model DE injection pump has the distinction of not using mechanical devices for the injection feed system.

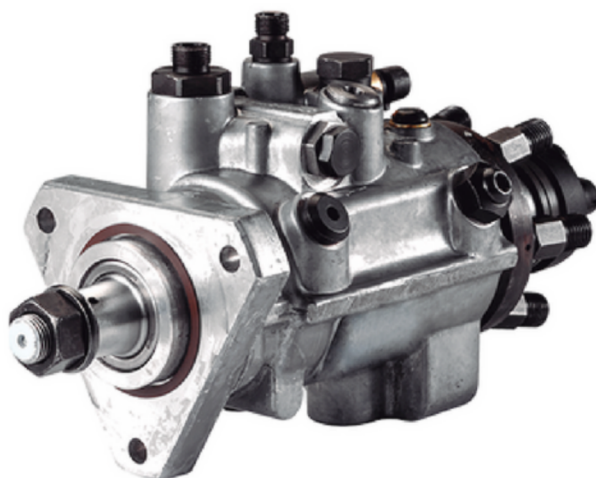
Therefore, it applies the electronic control for this function, as well as for the injection delivery control. The new controller has the ability to generate and monitor the parameters necessary to perform a correct adjustment and diagnosis.

PARAMETERS

- Fuel temperature.
- CLOSURE TIME (Response time).
- Measurement of resistance and isolation of the flow coil.
- Injection advance control (LOSSOP) and pulse width (SPW)

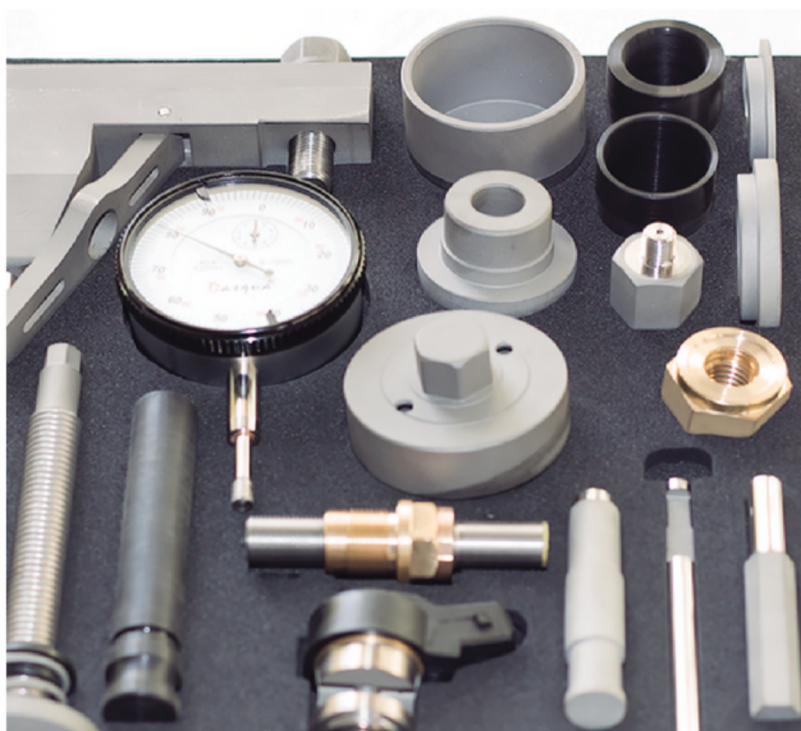
DE/DS TESTER	
No de Bomba	DE2435-5820
Part No.	5820
No de Cliente	RE-518087
Motor	4045T&D
SPW	14,00
LOSSOP	68,0
AISLAMIENTO <input checked="" type="checkbox"/> MEGGER	
PRUEBA POPPET <input checked="" type="checkbox"/> POPPET	

STANADYNE DE / DS	
U. BAT	12.52 V
RPM	0 1/min
Temp	20,0 °C
C. TIME	1,48 ms
SENSOR DS	-- count
MOTOR PAP	Down Up
EXIT	



TOOLS

The tool kit consists of everything necessary to perform a proper disassembly, assembly and adjustment of the components of the injection pump.





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CR PUMP TESTER



CR PUMP TESTER

SIMULATOR FOR

SYNCHRONIZED PUMPS

EASY DIAGNOSIS

Automatic and dynamic tests that facilitate the diagnosis and solution of faults in the components of the high pressure pump.

Nowadays, the new high-pressure fuel systems are equipped with synchronized high-pressure pumps, which multiplies the pressure at each turn.

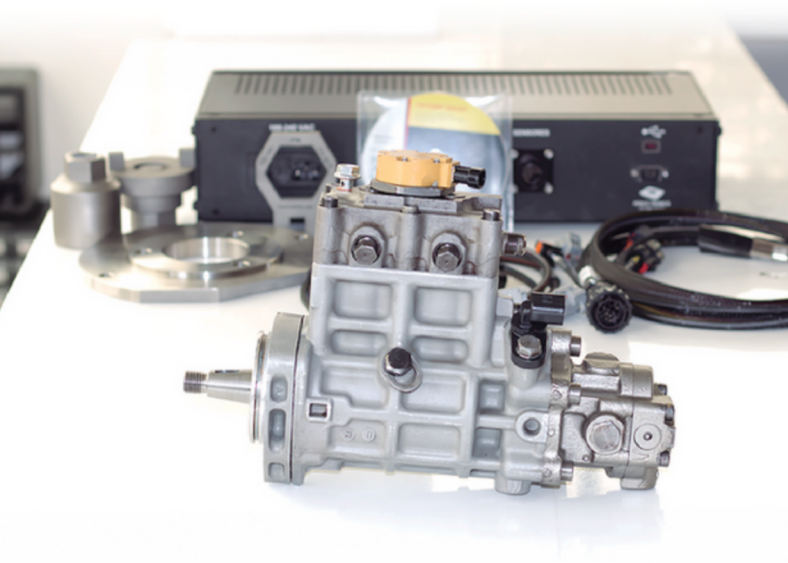
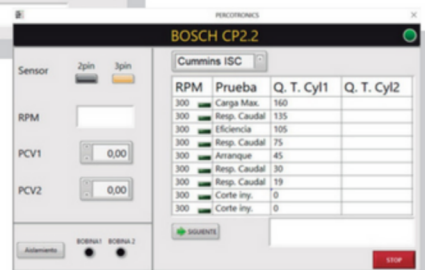
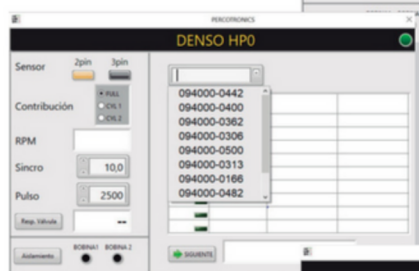
ONE SINGLE TEAM, DIFFERENT APPLICATIONS

The CR PUMP TESTER simulator is an excellent solution for all types of systems on the market, thanks to the ability of its software for the following brands:

EASY SOFTWARE INTERACTION

SELECT THE SYSTEM

BOSCH - DENSO - CUMMINS - CATERPILLAR - PERKINS





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VP TESTER **Version 3.1**



VP TESTER Version 3.1

It is a distributed injection test equipment VP-44, VP29 / 30, based on advanced monitoring software, thus allowing to give real solutions to this injection system.

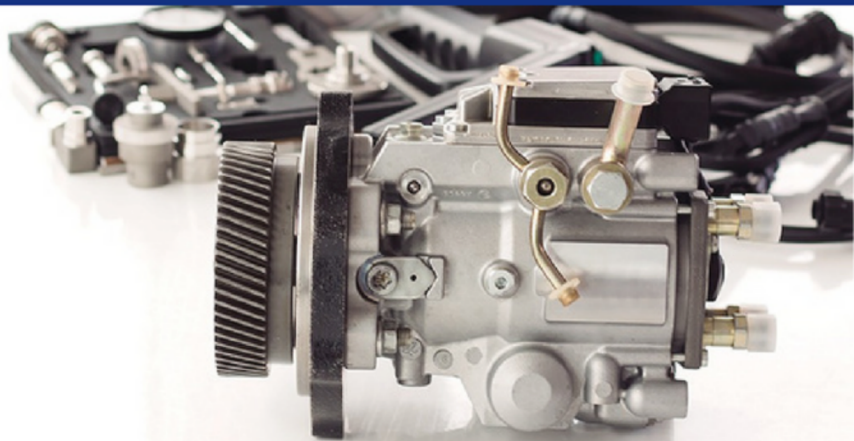
SIMPLE OPERATION AND DYNAMIC

By applying the CAN - BUS communication technology, it is possible to diagnose and monitor the PSG5 of the injection pump, and to be able to determine in an efficient way the damages in the electronic parts and wear in the mechanical components.

ADVANTAGE

- Mountable on any test bench
- Easy-to-use software
- Applicable for all automotive brands that use this injection system

The screenshot shows the VP-TESTER software interface. On the left, there's a form for entering pump details: No. BOMBA (0 470 506 041), GIRO (R), RPM max. (1250), APLICACIÓN (CDC(CONSOLIDATED DIESEL CO.)), MOTOR (N/A), POTENCIA(KW) (N/A), SOFTWARE (1469947046), VERSION SOFTWARE (C062_2.V40), VERSION FIRMWARE (C062_0.P64), UNIDAD DE CONTROL (0281010890), CLIENTE (0003964555), and No. SERIAL (483231). Below this is a table with columns 'Código', 'Descripción', and 'Contador'. The first row shows '5A' and 'Señal número de revoluciones'. On the right, the 'MONITOR PSG5 CAN BUS' section displays real-time data: U. BAT (25,01 V), RPM(CAN) (0 1/min), Temp(CAN) (25 °C), AVANCE(CAN) (15,01 °NW), and PRESIÓN (0 kPa). It also features two horizontal bar graphs for 'CONTROL DE CAUDAL' and 'CONTROL AVANCE DE INYECCIÓN'. At the bottom, there are buttons for 'CLEAN TCV', 'MAB', and 'LGS', and an 'EXIT' button.



Compact size

(Easy to transport)

FEATURES

- Search by pump number.
- Basic information on the application.
- Reading of internal characteristics of the ECU.
- Read and clear of fault codes (k-line).
- Internal pressure of the pump.

CANBUS READING OF:

- RPM pump.
- Fuel temperature.
- Theoretical Fuel rate .
- MAB Pin Control (injection off).
- LGS Pin Control (idle switch).
- Fuel rate control.
- Timing control.

PUMP TOOLS

- Disassembly
- Evaluation
- Assembly





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AUTOMOTIVE MANUFACTURING SOLUTIONS



EDC TESTER

www.elkoso.tech



EDC TESTER



NEW CONTROLLER EDC - TESTER For electronically controlled injection systems.

Rotary pumps ZEXEL & BOSCH

VRZ
COVEC-F
VP 37

ONLINE PUMPS ZEXEL

TICS
HD-TICS
MD-TICS
RED III
RED IV

ONLINE PUMPS BOSCH

KIND P
KIND H
KIND M
RE 30
RE 33

Electronically controlled injection systems will no longer be a problem thanks to the new PERCOTRO- NICS EDC-Tester controller.

Which incorporates a precise sensor path measure- ment system, which allows the laboratory to perform a correct failure analysis and solution of them.

User-friendly software with automatic tests of: IMPE- DANCE, INSULATION, AND MECHANICAL RESIS- TANCE, to check the status of the actuator mechani- cally and electronically.

No.	FIRST NAME	USE AND DESCRIPTION
1	List of component to check	Impedance measurement
2	Isolotoin	Measurement of insulation GOV
3	Test button Resistance Mechanics	Start the Mechanical Resistance test
4	Graphic display	Screen for monitoring the drive of the GOV
5	Test Button	Start the Test test
6	Speed of revolutions	Pump revolutions
7	Temperature value	Test oil temperature
8	Compensation value	Compensation resistor
9	Value of TPS	Actual position plunger position sensor voltage
10	Position value GOV	Actual position tension of the GOV
11	Position value GOV	Theoretical tension of position of GOV
12	Control bar TCV	Adjustment bar for activating Advance Control Valve
13	Disconnect button	Disables the fuel cut solenoid
14	Exit button	Exit program

CHARACTERISTICS

READING

- Sensor reading csp (sleeve position sensor).
- TPS sensor reading (advance position sensor).
- Reading of fuel temperature sensor.
- Reading of revolutions sensor.
- Activation of tcv (advance control valve).

MEASUREMENT

- Measurement of electrical resistance of actuators and sensors.
- Measurement of insulation.
- Measurement of mechanical resistance.
- Measurement of compensation resistance.

PROOF OF IMPEDANCE

The test equipment is equipped with an impedance analyzer, thus allowing a quick measurement of the electric components of the edc pumps and facilita- ting the diagnosis, suppressing the use of additional tools. The indicator lights green when the impedance values are correct and red when the test is not met.



EDC TESTER

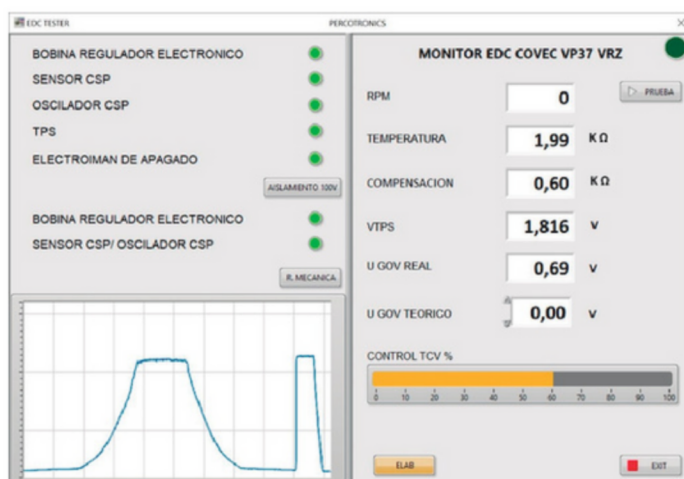
BOBINA REGULADOR ELECTRONICO	
SENSOR CSP	
OSCILADOR CSP	
TCV	
ELECTROIMAN DE APAGADO	

RESISTANCE TEST MECHANICS

In the actuators it is common to find wear in the mechanical components, which in most cases can not be analyzed and diagnosed in the test bench. With the EDC-Tester controller, a check of the mechanical state of the actuator can be carried out.

ORIGINAL CONNECTIONS

Time saving when performing the diagnosis or calibration of the EDC injection pumps thanks to the original connections.





EDC
TESTER



TOOLS

To guarantee the correct repair of the actuator, the basic tool kit includes a toolkit for the repair of the same.





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AUTOMOTIVE MANUFACTURING SOLUTIONS



GEAR PUMP



GEAR PUMP



GEAR PUMP

CUMMINS ISX - ISM

Diagnosis - Evaluation

Versatile equipment compatible with different test benches, it includes components and accessories that optimize the work:

- GEAR PUMP Team.
- ISX - ISM mounting flanges.
- ISX - ISM 2 in 1 shaft coupling.
- 10 inch touch screen.
- Screen support.
- Hydraulic hoses.
- Cables.

MAIN FEATURES:

- Tests at different rotation speeds.
- Automatic pressure adjustment.
- High precision electronic components.
- Software easy integration and dynamic.
- Configuration of measurement units.
- Manual evaluation option.



EVALUATION PARAMETERS

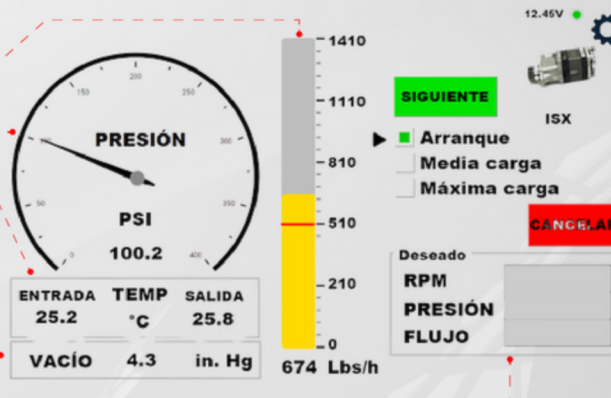
- Flow rate - Flow generated by the pump.
- Pressure generated by the pump.
- Fuel inlet and outlet temperature.
- Vacuum or suction generated by the pump.
- Desired parameters.



52 cm x 28 cm x 22 cm 10 kg



28.5 cm x 26.5 cm x 7.5 cm 5 kg





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HPI-TP TESTER



HPI-TP
TESTER

HPI TESTER

Components



HPI TESTER
BLOCK

+ 2 fixing bolts



HPI TOOL KIT



INTERFAZ HPI - TP TESTER + USB Installer



POWER CORD



CABLE PRINCIPAL



NOZZLE CABLE



CABLE USB



2 HI DRAUL I CAS HOSES



2 QUICK COUPLERS

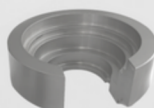
NOZZLE COLLECTOR



INJECTOR SLEEVE



INJECTOR GUIDE
SUPPORT



52 cm x 28 cm x 22 cm
8 kg



HPI-TP
TESTER

TP TESTER

Components

TP TESTER BLOCK
+ 2 fastening bolts + 6
M6 Nuts + 6 Gaskets



CABLE EURO III



CABLE EURO IV



BANANA CABLE
ACTUATORS



PERCOTRONICS®
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52 cm x 28 cm x
22 cm 8 kg



HPI-TP
TESTER

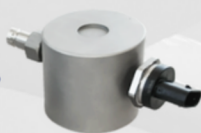
CELECT

Accessories



PERCOTRONICS®
Electrónica & Tecnología Automotriz

NOZZLE COLLECTOR



INJECTOR SLEEVE



PNEUMATIC SYSTEM

+2 Pneumatic hoses +1
Inlet adapter



CELECT TOOL KIT



CABLE CELECT



CABLE BANANA CELECT



BYPASS FITTING - PLUG



1 QUICK COUPLER



52 cm x 28 cm x 22 cm
15.5 kg



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