



PERCOTRONICS®



COMPLETE HPI TESTER

@percotronics



www.percotronics.com

HPI TESTER



Test Equipment for HPI Injectors and TP Actuators.
CUMMINS/SCANIA HK1400/HK1500. Compatible with HARTRIDGE CAM-BOX.

MAIN FUNCTIONS:

- Internal set of **flow and feed control valves.**
- Intuitive software with **semi-automatic testing.**
- Generates **test reports.**

SIMPLE AND DYNAMIC OPERATION:

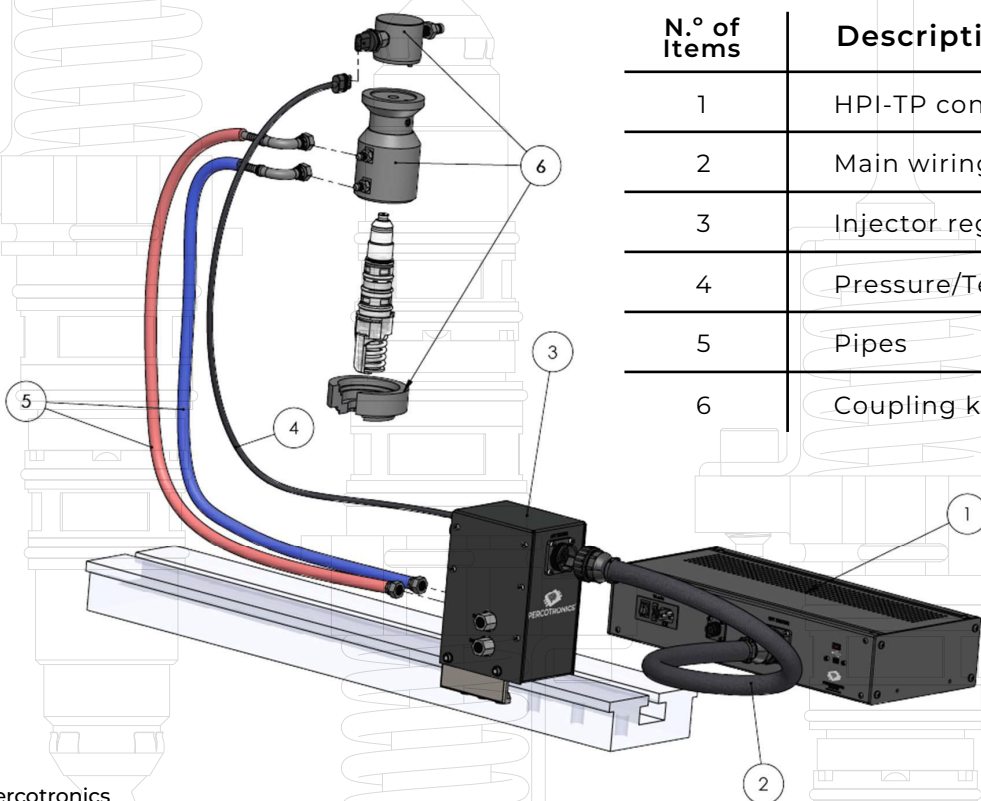
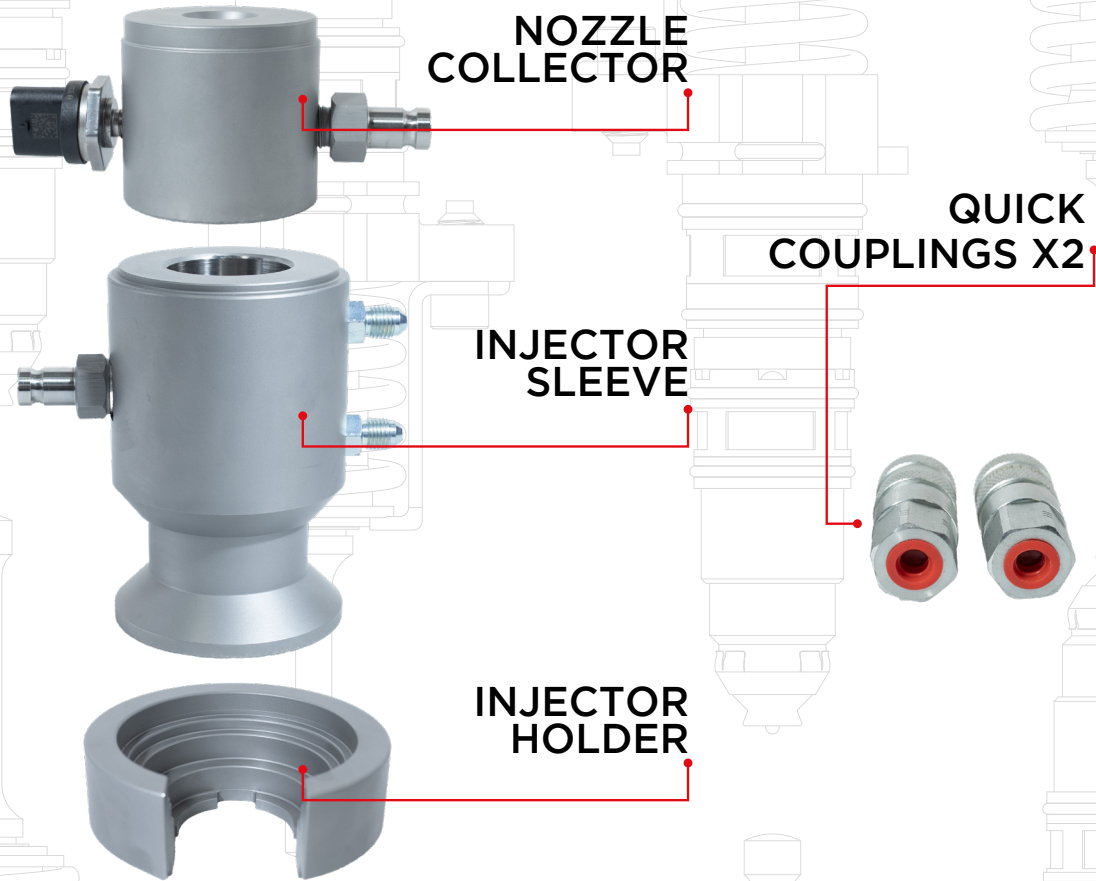
Our equipment, together with the CAM BOX, **can perform the following tests:**

- Nozzle leakage test.
- Element pressure test.
- Return valve test.
- Injection advance and retard test.
- Delivery flow test.



HPI TESTER

ADAPTERS FOR INJECTOR MOUNTING IN THE CAM BOX



N.º of Items	Description
1	HPI-TP control module
2	Main wiring harness - HPI TESTER
3	Injector regulation assembly
4	Pressure/Temperature sensor wiring
5	Pipes
6	Coupling kit

SOFTWARE HPI TESTER

CON EXPERIENCIA DE USUARIO INTUITIVA

Power Supply Voltage (Interface)

Flywheel Revolutions Per Minute (RPM) of the Test Bench

Voltaje

RPM

Presure

Temp

12,5 V

601 1/min

20,7 bar

27,3 °C

Fuel Supply Pressure

Fuel Inlet Temperature

SOFTWARE HPI TESTER

CON EXPERIENCIA DE USUARIO INTUITIVA

Nozzle spray pressure

Purge Time

Flow delivery

The screenshot displays the HPI Tester software interface with the following elements:

- Parameters:**
 - Voltaje: 12,5 V
 - RPM: 601 1/min
 - Presure: 20,7 bar
 - Temp: 27,3 °C
- Graphs:**
 - Tobera:** A spray pressure graph showing a peak at 47,3 bar and a temperature of 54,8 °C.
 - Avance:** A timing graph showing a value of 7 degrees.
- Legend:** A legend with colored squares indicating engine states: LOW IDLE (red), HIGH IDLE (red), MAX POWER (green with checkmark), MIDDLE POWER (red), MAX TORQUE (red), and SPILL TIMING (red).
- Data Table:** A table with columns for RPM, TOBERA, cc TEORICO, cc REAL, and RETORNO. The table is divided into 'PRUEBA' and 'SIGUIENTE' sections.
- Buttons:** 'DATOS CLIENTE', 'REPORTES', and 'Stop' buttons are visible at the bottom.

Injection timing measurement

Data Table: Parameter Display for Each Test

TP TESTER



Equipment designed for testing and calibrating **EURO III • EURO IV dosing (M) and timing (T) actuators.**

MAIN FUNCTIONS:

- Dynamic flow measurement **using high-precision flow meters.**
- **Automatic feed pressure** adjustment.
- **User-friendly software** with automatic test routines.
- Built-in database.
- **Test reports.**

FUNCIONAMIENTO SIMPLE Y DINÁMICO:

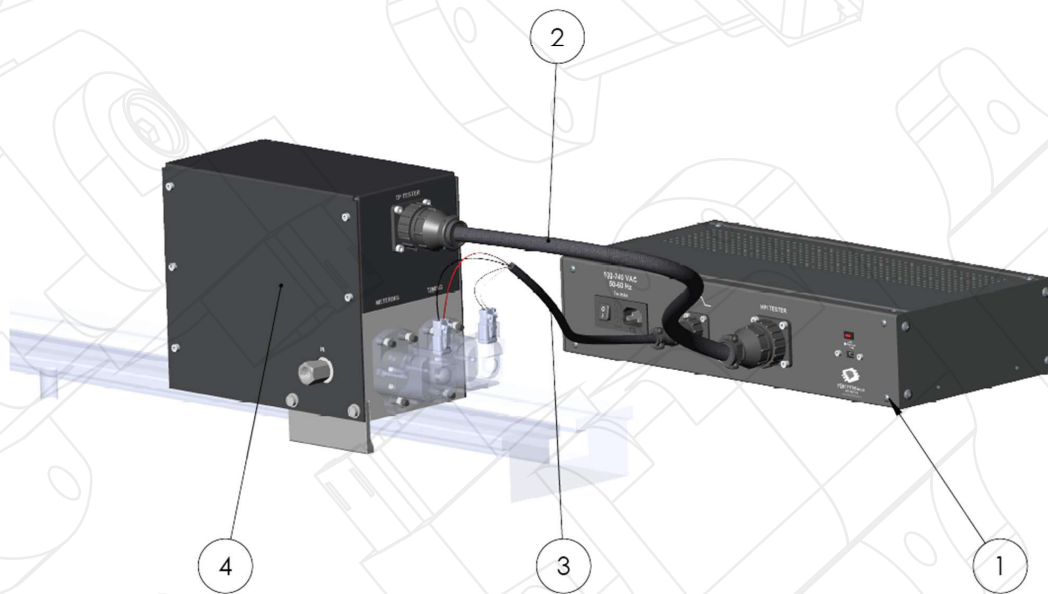
Equipment designed for testing and calibrating **dosing (M) and timing (T) actuators.**

- Insulation test.
- Stroke/electrical test.
- Static leakage test.
- Dynamic leakage test.
- Flow test under 2 different conditions.



SOFTWARE TP TESTER

N.º de Elemento	Descripción
1	HPI-TP Control Module
2	Main TP TESTER Wiring Harness
3	Actuator Wiring Harness
4	TP Actuator Measurement and Regulation Assembly



Evaluation Parameters

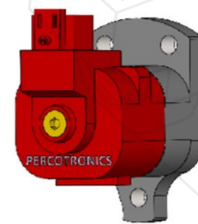


Voltaje	12,5 V
RPM	1000 1/min
Presión	20,0 bar
Temp	31,8 °C
Retorno	5689,1 ml
Conteo	14 seg

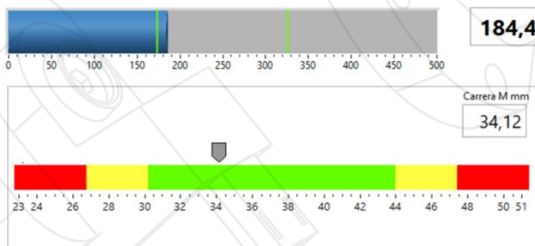
Testing

INICIO

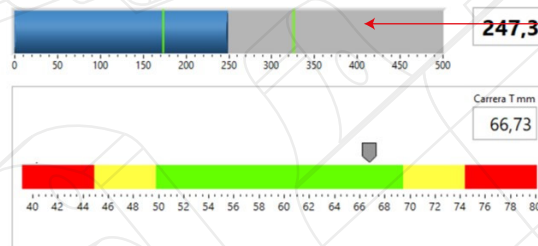
METERING	TIMING
<input checked="" type="checkbox"/> Aislamiento	<input checked="" type="checkbox"/> Aislamiento
<input type="checkbox"/> Eléctrica	<input type="checkbox"/> Eléctrica
<input type="checkbox"/> Fuga	<input type="checkbox"/> Fuga
<input type="checkbox"/> Contribución 1	<input type="checkbox"/> Contribución 1
<input type="checkbox"/> Contribución 2	<input type="checkbox"/> Contribución 2



REPORTES CLIENTE



Closing Time Measurement



Flow Delivery

SALIR

SOFTWARE TP TESTER

INCLUDES TOOLS FOR ROTARY PUMP:

- Disassembly
- Evaluation
- Recovery
- Assembly



INCLUDES:

- Interface
- Main cable
- USB cable
- TP block
- Tool kit