

Direct diesel injection training board – simulator

Specifications

- Fully functional engine control system is installed in a mobile aluminum frame. This training board – simulator is specially designed to help technical students understand better direct diesel injection system.
- Educational training board is based on OEM components. Integrated engine control system shows different operation modes of the direct fuel injection system.
- The stand is designed to demonstrate a work of the high pressure pump, injectors and electronic engine management system.
- Monitoring operation of high pressure fuel supply system, injected fuel quantity, the amount of fuel back leak, spray pattern quality.
- Adjustable air flowrate simulator allows to demonstrate a work of mass – air flow meter and air temperature sensor.
- Manual adjustment of the engine crankshaft speed.
- Integrated simulators allow to change parameters of engine temperature sensor.
- Integrated simulators allow to change parameters of intake air pressure sensor.
- Electric wiring diagram with built – in banana plug jumpers for measurements and simulation of system fault codes. Possibility to monitor the changing operation mode of each system component.
- Possibility to simulate more than 20 system faults by disconnecting banana plug jumpers.
- Training board – simulator has an integrated voltmeter. It displays voltage of different electronic system components.
- The stand has a closed structure – internal wiring is not visible.
- Power supply: 220/12 V
- Dimensions (HxLxW) not bigger than: - Electronic part (board) 1850x1380x600 mm
- - Mechanical part (trolley) 1530x900x600 mm
- Weight (netto) approx.: 135 kg
- CE certificate



Diagnostic and measurements

- System's parameters are measured by connecting to the banana connector.
- Possibility to measure electrical signal parameters of each system component (such as sensor or actuator).
- Diagnosis through OBD 16 – pin diagnostic connector
- Electronic control unit identification
- Reading/erasing fault codes
- Displaying the operating system parameters (live data)
- Activating the actuators (Depends on the control unit)