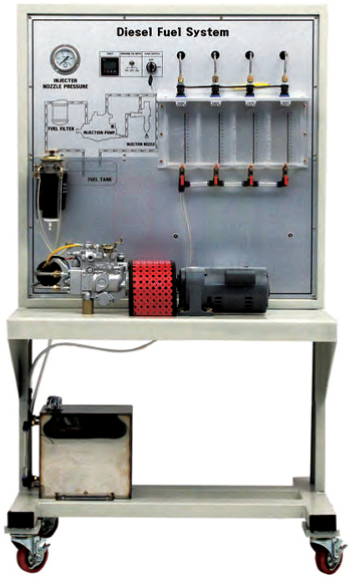
Email : sales@scilabexport.com
Phone: +91-7082934803

Product Name :

Diesel Fuel Injection System VE pump

Product Code :

SLE/ATE/03



Science Lab
Email : sales@scilabexport.com
Phone: +91-7082934803

Description :

The Diesel Fuel Injection System VE pump is a bench for measuring fuel injection against pump speed. A single-phase ½ HP motor turns the VE pump, a distributor-type rotary injection pump, and a timer sets the length of each test run. A group can then compare the fuel injected at several speeds, measure oil flow and check the condition of the pump and injectors.

VE pump injection bench specifications

Parameter	Detail
Injection pump	VE pump (distributor-type rotary pump)
Drive	Single-phase ½ HP motor
Speed control	Provided, so the pump can be run at different speeds
Timing	Timer for timed test runs
Function	Pump driven by the motor; fuel injection measured according to RPM
Training contents	Pump condition check, drive motor operation, oil flow measurement, injection against RPM, injector condition, study of VE pump injection
Weight	Approx. 100 kg
Size	Approx. 600 × 400 × 1,200 mm
Product code	SLE/ATE/03
Minimum order	10 units
Dispatch	Usually within 7 to 10 working days
Manufacturer	ScienceLab (Jain Scientific Equipments Pvt Ltd), Ambala, India

Practicals on the VE pump bench

Injection curve. Run the motor at a chosen speed, start the timer and catch the injected fuel in a polypropylene measuring cylinder. Repeat over several speeds with the same run time and plot quantity against RPM. Then explain the shape of the curve from how the control collar and governor of a VE pump meter the fuel.

Oil flow and injector condition. Measure the oil flow over a timed run and record it with the speed. Then check each injector for spray shape, a clean cut-off at the end of injection and any dribble or leakage at the nozzle, and write the pump and injector results on one sheet.

Distributor pump against inline pump. Run the same speed steps on the inline pump bench. Students compare one distributor plunger serving every outlet in turn with a sepa

Whe

trace he