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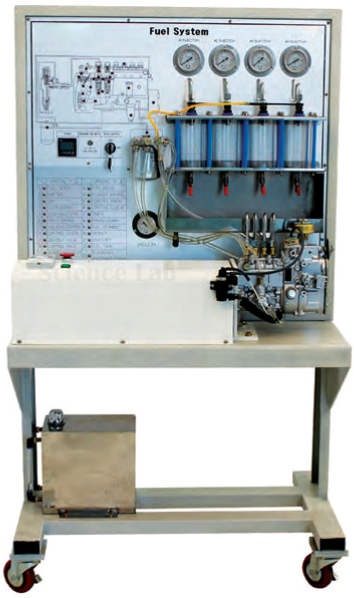
Product Name :

Diesel Fuel Injection System Inline Pump

Product Code :

SLE/ATE/04



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Description :

The Diesel Fuel Injection System Inline Pump is a bench on which a single-phase ½ HP motor, set by an inverter, drives an inline diesel injection pump so that learners can measure injection at different RPM. Four fuel pressure gauges and a timer let them compare pressure, delivered quantity and injection pattern from one speed to the next, and check the condition of the pump and injectors.

Inline pump injection bench specifications

Parameter	Detail
Pump type	Inline injection pump
Drive motor	Single-phase ½ HP
Speed control	Inverter
Instrumentation	4 fuel pressure gauges; timer
Operation	Pump driven by the motor; fuel injection measured according to RPM
Training contents	Pump status check, motor operation, injection against RPM,injector status, fuel flux and injection patterns
Weight	Approx. 100 kg
Size	Approx. 600 × 400 × 1,200 mm
Product code	SLE/ATE/04
Minimum order	10 units
Dispatch	Usually within 7 to 10 working days
Manufacturer	ScienceLab (Jain Scientific Equipments Pvt Ltd), Ambala, India

Measurements on the inline pump bench

Delivery against speed. Set the inverter to a low speed, start the timer and collect the fuel delivered during the run in a 100 ml measuring cylinder. Repeat at several higher speeds and plot delivery per run against RPM.

Reading the pressure gauges. During each run, students log all four fuel pressure gauges and relate the readings to pump speed and delivered quantity. They then discuss what a reading that falls at one speed would mean for injection at the nozzles.

Spray pattern and injector status. Watch the injection pattern at each speed and sort the sprays into fine atomisation, streaky jets and dribble after cut-off. Then link a poor pattern to the symptoms trainees meet on a running engine on the diesel engine fault diagnosis trainer.

Inline
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