

Product Name :
Four Stroke Four Cylinder Diesel Engines Test Bench

Product Code :
NLAB-MECHANICALAB210007



Description :

Four Stroke Four Cylinder Diesel Engines Test Bench

Technical Specification :

The Experimental four cylinder diesel engine test stand. The engine used here is a four-cylinder diesel engine. It has its own closed cooling water circuit.

A solid welded frame on rollers carries the entire setup. Hazardous areas such as hot surfaces and rotating parts are covered with perforated plates. The connection to the brake is made via a rotationally elastic coupling with a jointed shaft. The engine is attached to the load unit by fasteners.

The engine is fitted with sensors that measure the temperatures and the cooling water flow rate. The switch cabinet contains all of the electronic equipment for managing the engine (factory set). On the switch cabinet are an ignition key, an operating time counter and warning lamps. Data is transferred between the load unit and the engine via a data cable connecting the switch cabinets for the two units. A starter battery is also housed in the frame.

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For safety reasons, the engine has been modified in a way that it only starts when it is connected to the load unit both mechanically and electrically.

FEATURES:

Engine flexibly mounted on mobile frame

Plotting of torque and power curves

Determination of specific fuel consumption

Determination of volumetric efficiency and lambda (fuel-air ratio)

Energy balances

Overall engine efficiency

Closed cooling water circuit

Switch cabinet with warning lamps (oil pressure, alternator failure), operating time counter and ignition key

SPECIFICATIONS:

Engine: CRDI Version

Max.Power: 74 BHP @ 4000 rpm

Max.Torque:190Nm @ 2000 rpm

Fuel: diesel

No of cylinders: Four

Bore: 69.9 mm

Stroke length: 82 mm

Starting: Self-start

Working stroke: Four strokes

Cooling: Water-cooled

Capacity: 1248 cc

Battery: 12V, 45A

Alternator: 12V, 45A

Engine oil: SAE 5W-30

Power required:230V, 50Hz, 1 phase

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