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Product Name :
Single Cylinder Four Stroke Diesel Engine Test Bench

Product Code :
SCHOOL-THM830014



Description :

Single Cylinder Four Stroke Diesel Engine Test Bench

Technical Specification :

The experimental test stand, which includes a drive and brake unit, the four-stroke diesel engine is highly suitable for use in teaching the fundamentals of engine functioning and measurement.

The engine used here is an air-cooled single-cylinder four-stroke diesel engine with direct injection.

The diesel engine is started and slowed down by an electric motor mounted in the unit.

A flywheel fan affects the air-cooling.

The brake unit is connected by way of an elastic claw coupling.

The engine is prepared for measurement of the cylinder pressure for indication.

It includes a sensor to measure the exhaust gas temperature and a connection to measure the intake pressure.

Both sensors, ignition cut-off and fuel supply are connected to the test stand.

The full load and partial load characteristic curves of the engine are plotted in experiments.

Familiarization with a four-stroke diesel engine

Engine mounted on base plate

Force transmission to brake via elastic claw coupling

Fuel hose with self-sealing quick-release coupling

Plotting of torque and power curves

Determination of specific fuel consumption

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

Determination of engine friction loss

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