

Product Name :
Single Cylinder Four Stroke Petrol Engine Test Bench

Product Code :
THEM0013



Description :

Single Cylinder Four Stroke Petrol Engine Test Bench

Technical Specification :

The engine used here is an air-cooled single-cylinder four-stroke petrol engine with external carburation. The engine is started and slowed down by an electric motor mounted in the unit. 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. A flywheel fan affects the air-cooling. The brake unit is connected by way of a elastic claw coupling. The engine is prepared for measurement of the cylinder pressure for indication. The full load and partial load characteristic curves of the engine are plotted in experiments.

FEATURES:

- Brake Thermal Efficiency
- Fuel Consumption Measurement
- Air Intake Measurement
- Familiarization with a four-stroke petrol engine
- Plotting of torque and power curves
- Bhp Measurement
- Determination of specific fuel consumption
- Determination of volumetric efficiency and lambda (fuel-air ratio)
- Determination of the frictional power of the engine

SPECIFICATION:

Air-cooled single-cylinder petrol engine

Power output: 7,5kW at 3000min-1
Bore: 89mm
Stroke: 63mm



Elab Engineering Equipments Manufacturers