

**Product Name :**  
Single Cylinder Four Stroke Petrol Engine Test Bench**Product Code :**  
THEM0013**LAB ENGINEERING****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

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

 **LAB ENGINEERING**

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