

**Product Name :**  
Single Cylinder Four Stroke Petrol Engine Test Bench

**Product Code :**  
ENGLABINGCAG340015



**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.

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

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Air-cooled single-cylinder petrol engine  
Power output: 7,5kW at 3000min-1  
Bore: 89mm  
Stroke: 63mm



## Engineering Lab Equipment India