

**Product Name :**  
Single Cylinder Air Cooled Four Stroke Petrol Engine Test Rig (3hp @ 3600 Rpm) With Mechanical Brake Or A.C Alternator Or D.C Generator Or Eddy Current Dynamometer

**Product Code :**  
IC Engine0002



**Description :**

Single Cylinder Air Cooled Four Stroke Petrol Engine Test Rig (3hp @ 3600 Rpm) With Mechanical Brake Or A.C Alternator Or D.C Generator Or Eddy Current Dynamometer

**Technical Specification :**

The test rig is designed to provide self-contained facility for teaching spark Ignition engine principles. The unit is instrumented so that the following experiments can be carried out. 01. Bhp Measurement

- 02. Brake Thermal Efficiency
- 03. Fuel Consumption Measurement
- 04. Air Intake Measurement

The Engine Test Rig Facilitate To Evaluate The Following

- Performance at various throttle position
- BHP measurement from no load to full load

**Description**

Three main components from main parts of the test rig. Welded steel base plate, complete with Mechanical Brake or A.C. Alternator or D.C. Generator or Eddy Current Dynamometer, Drive coupling and with safety guard, anti vibration mounting. Resistance loading with selector switches to the engine from no load to full load (Only for A.C. Alternator & D.C. Generator) Panel board positioned over the base plate consisting of fuel system with flow measurement by burette, air flow measurement system, temperature indicator.

Dynamometer (as applicable) Mechanical Brake (Belt brake) Dynamometer arrangement with a brake drum fitted on the Engine shaft and provided with cooling water arrangement, spring balance. A set of dead weights in kg units. AC Alternator of matching capacity to load the engine upto 3HP at 3600 RPM along with Resistance

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loading arrangement provided with selector switches. DC Generator of matching capacity to load the engine upto 3HP at 3600 RPM along with Resistance loading arrangement provided with selector switches. Eddy current dynamometer of matching capacity to load the engine up to 3 HP at 3600 RPM.

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