

SINGLE CYLINDER TWO STROKE PETROL ENGINE TEST RIG (EE-1612)

IC engines are widely used in automobile, domestic and industrial sector. They are classified according to cycle, number of cylinders, arrangement of cylinders, fuel used, type of ignition, valve arrangement, cooling system. Test rigs are used to find out the performance of an IC engine. It consists of an IC Engine, dynamometer, fuel measuring, air intake measuring and various other arrangements.

SCOPE OF EXPERIMENTS:

- To determine Brake Horse Power
- To determine fuel consumption
- To determine specific fuel consumption
- To determine Brake Thermal Efficiency

TECHNICAL DETAILS:

- Type of Engine
 - Single cylinder, two stroke, air cooled, Kick start, self lubricating, petrol engine
- Type of Loading
 - **Rope Break Dynamometer**
 - Rope Brake arrangement with the brake drum fitted on the engine shaft and provided spring balance.
- Fuel measuring system
 - Fuel measuring system consists of a fuel tank, a burette and a three way cock arrangement.
- Air intake measuring system
 - Air tank fitted with orifice and water manometer.
- The whole setup is well designed and supported by a good quality painted rigid M.S. Structure.

