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**Product Name :**  
Four Stroke Petrol Engine W. Variable Compression

**Product Code :**  
LBNY-0005-10300021



#### **Description :**

The engine used here is an air-cooled single-cylinder four-stroke petrol engine with external carburation. A modified cylinder head permits experiments with various combustion chamber inserts. To adjust the mixture composition, the carburettor was modified. In conjunction with the test stand and the load unit, the engine is highly suitable for investigation of different compression ratios, ignition timing adjustment and an adjustable jet nozzle. The engine includes a sensor to measure the exhaust gas temperature. The sensor, ignition cut-off and fuel supply are connected to the test stand. It is fitted with a special device to adjust the ignition timing from advanced to retarded.

#### **Learning Objectives/Experiments:**

Influence of compression ratio, mixture composition, ignition timing on engine characteristics and exhaust gas temperature

In conjunction with test stand load unit, in addition to the standard basic experiments

#### **Technical Specification :**

5 variable compression ratios, adjustable by varying the combustion chamber geometry adjustable ignition point  
Air-cooled single-cylinder four-stroke petrol engine for installation in the CT 159 test stand

Force transmission to brake via pulley

Engine complete with fuel hose and exhaust gas temperature sensor

Mixture composition adjustable

Engine mounted on vibration-insulated base plate

Fuel hose with self-sealing quick-release coupling.



**Laboratory Instrument India**