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**Product Name :**  
Computerized Variable Compression Ratio Multifuel Engine  
Test Bed

**Product Code :**  
LBNY-0005-11200051



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**Description :**

The Compression Ratio can be changed without stopping the engine and without altering the combustion chamber geometry by means of a specially designed tilting cylinder block arrangement both during gasoline running and during Diesel running. Computerized Variable Compression Ratio Multifuel Engine Test Bed allows to perform experiments concerning this kind of engines. The unit consists of single cylinder, four stroke, Variable Compression Ratio (VCR) engine connected to eddy current type dynamometer for loading. Setup is provided with necessary instruments for combustion pressure and crank-angle measurements. The test bed includes a stand-alone panel box consisting of air box, two fuel tanks for duel fuel test, manometer, and fuel Measuring unit, transmitters for air and fuel flow measurements, process indicator and engine indicator. Rota meters are provided for cooling water and calorimeter water flow measurement. These signals are interfaced to computer through engine indicator for pv diagrams. Provision is also made to interface airflow, fuel flow, temperatures and load measurement.

**Technical Specification :**

Required Services:  
Water supply: 1000 l/h, 2 bar, 10 - 15°C, from mains, for cooling  
Electric power supply: 220V, single phase, 50/60 Hz; 1kW.  
Weight and dimensions:  
Test Bed  
Dimensions: 2000x2500x1500 h mm  
Weight: 650 kg.



**Laboratory Instrument India**