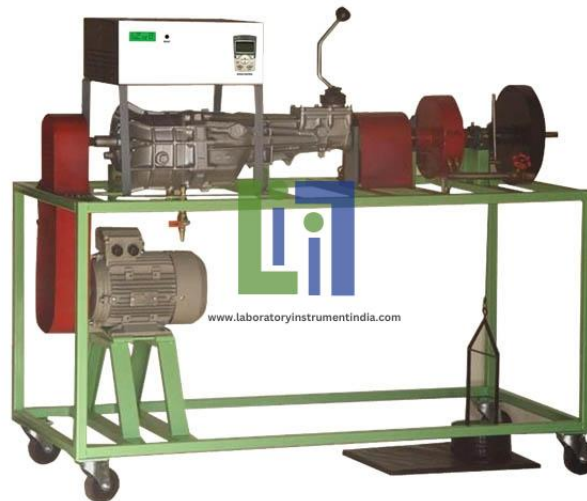




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**Product Name :**  
Automotive Gear Study Unit

**Product Code :**  
LBNY-0005-13000017



#### **Description :**

The system uses a manual automotive gear. The input shaft is driven a motor dynamometer via a belt and pulleys. Speed is controlled by an inverter. The output shaft is attached to an eddy current absorber dynamometer. The Automotive Gear Study Unit is for studying the acceleration of an automotive gear system as well as gear system efficiency under different gear ratios and speeds. The system requires outside water supply for water brake absorber cooling. The unit is on steel frame with adjustable footings. The gear output shaft is extended for a study of inertia of a mass and equivalent inertia of the gear system.

#### **Experiments:**

Equivalent inertia of the gear.  
Effect of speed and load on efficiency.  
Input power, output power and efficiency.

#### **Technical Specification :**

Gear box : Good used 5 speed manual automotive gear.  
Maximum shaft input speed : 6000 rpm.  
Speed control : Inverter.  
Power supply : 380 V, 3 Ph, 50 Hz.  
Power measurement :  
a. Speeds : Digital display for input and output shafts.  
b. Torques : Digital display for input and output shafts.  
Accessories : Cable drum, inertia masses, calibrated weights, weight hanger, and stop watch for inertia determination.



**Laboratory Instrument India**