



Email : sales@laboratoryinstrumentindia.com

**Product Name :**  
Simple Geared System

**Product Code :**  
LBNY-0005-13000025



#### **Description :**

The Simple Geared System consists four parallel shafts with fixed and sliding gears and supported by self aligned ball bearings on a base frame. The gear system is attached to a wall supported on two legs for weight hanger travel. By timing the fall of the weight hanger, the acceleration of the system can be calculated. The Simple Geared System is for studying the acceleration of a gear system under different gear ratios. Each pair of adjacent shafts has two transmission ratio, providing 8 different gear ratios between the first and the last shaft. A chord wound around a drum and the weight hanger provides a means of applying a torque. Inertia mass with torque drum is attached to each shaft. A sprocket and lock pin, and a winding handle are provided for raising the weights. All gears are enclosed in a casing with a transparent cover for safety.

#### **Technical Specification :**

Shafts : 4 ea.  
Gear : Spur gear.  
Maximum gear ratio : 64 : 1.  
Inertia masses : 4 ea.  
Stop watch : 1 ea.  
Weight hanger : 1 ea.  
Chord with measuring tape : 1 set.  
Weights : 1 lot.

#### **Experiments:**

Efficiency of a geared system.  
Inertia of a mass and of a geared system.



**Laboratory Instrument India**