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**Product Name :**  
Epicyclic Gear Unit

**Product Code :**  
LBNY-0005-13000044



#### **Description :**

The function of an automatic transmission is to change gears automatically without any human intervention. Transmission consists of three coupled epicyclic gears sets. It will allow the students to carry out experiments of different gear ratios, as well as the torque conversions.

The unit has two graduated discs located at the input and output shafts, which will allow to check the velocity and torque ratios according to the application of the different brakes.

Automatic gearboxes have two differentiated parts: the torque converter and the transmission. The automatic transmission is formed, most importantly, by one or more planetary (epicyclic) gear sets, set of clutches, band brakes and pilot valves.

The unit simulates a Wilson Gear Box.

The epicyclic gears installed in the unit are the same and they consist of the following elements:

Common support of the satellites.

Sun gears.

Satellite gears set.

Ring.

#### **Technical Specification :**

The unit includes a set of epicyclic gears that allows the student to study different reduction ratios (direct drive and overdrive), as well as torque conversion.

A simple epicyclic gears set consists of:

Planet gears whose carrier can rotate.

Ring gear that rotates together with the output shaft

Sun gear that rotates together with the input shaft.



**Laboratory Instrument India**