

**Product Code . JA-FMAHLE-7335**

## **Slip and Creep Measurement Apparatus**



### **Description**

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##### **Description:-**

This apparatus is useful for measurement of power transmitted for various input power conditions with varied belt tension.

Belt slip or creep also can be measured.

The driven pulley can slide on the base only with bearing block to change the initial tension in the belt.

The brake drum is mounted on the output shaft, which helps to measure power output.

The apparatus consists of a variable speed motor, driving pulley and driven pulley of equal diameters.

The pulleys are mounted on the input shaft (motor shaft) and output shaft.

The motor speed is varied by variable speed drive.

With the help of Stroboscope (optional), it is possible to demonstrate the slip of belt on driving and the driven pulley.

A double channel digital speed indicator indicates driving and driven pulley speeds.

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### Experimentation:-

To measure the coefficient of friction between pulley material and different belt materials.




To measure percentage slip at fixed belt tension by varying load on the brake drum and plot the graph of  $(T_1 - T_2)$  v/s percentage slip i.e. "Slip Characteristics".

To measure power transmitted with varied belt tension.

To study creep of the belt.

To measure belt slip speed and observe the limiting value of load at a constant speed when the slip just starts.

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