

## **TOM-017    PIN ON DISC APPARATUS**



### **RANGE OF EXPERIMENTS TO BE CARRIED OUT:**

1. To Calculate the bearing pressure
2. To calculate the rate of wear
3. To calculate the wear volume
4. Plot graph of rubbing velocity vs Rate of wear for different material
5. Plot the graph of bearing pressure v/s rate of wear for different material

### **TECHNICAL DESCRIPTION:**

The Pin And Disc wear Apparatus consists of a steel disc whose top surface is case hardened and ground. The disc is rotated by a variable speed dc motor. The test pin is inserted in a pin guide so that one end of pin touches the rotating disc. The pin is inserted in the pin guide. The disc is set to rotate at the required speed. The required load is put over the pin and wear of the pin is measured for a time interval of 5 minutes. Different materials can be tested at different speeds, bearing pressures and either lubricated or non lubricated form.

**DIMENSIONS AND WEIGHT :**

Size :1.0 m.(L)x 1.0 m(W) X 1.5m ( H )

Weight :Approx. 55 Kg

**SERVICE REQUIRED :**

230 v Ac SupplySingle Phase 50 Hz

**SCOPE OF DELIVERY:**

1. Experimental Setup
2. Instructional Manual

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