



Pin on Disc Wear Test Rig is designed to study friction and wear characteristics in sliding contacts. Sliding occurs between a stationary pin and a rotating disc. Normal load and wear track diameter can be varied. Tangential frictional force and wear are monitored with electronic sensors. This test rig is suitable for demonstration of wear and friction properties

Features:

- Continuously variable wear Track.
- Display of wear and frictional force.
- Pre-settable test duration.

Technical Specifications:

- Wear disc : Diameter : 160 mm Thickness : 6 minimum & 8 mm maximum
- Pin diameter : 6 mm
- Pin length : 75 mm
- Wear track diameter : 50 mm minimum & 80 mm maximum , variable
- Disc speed : 0 to 1500 rpm
- Normal load : 5 to 30 (in steps of 10N)
- Frictional force : 0 to 30 kg
- Wear range : 0 to 2 mm
- Preset timer : 1 to 59 minute
- Specimen pin length : 25 to 30 mm
- Pin holders : Diameter :- 4 to 6 , 8 to 10 , 10 to 12 mm (1 nos. each)
- Motor : DC motor with drive
- Pin heating module : Up to 300 degree C
- Environmental chamber : Acrylic make
- The whole set-up is well designed and arranged on a rigid structure painted with industrial PU paint.

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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Control Panel:

- Main power switch – 1 nos.
- Start and stop cycle switch
- Pre set timer meter – 1 nos.
- Motor speed controller – 1 nos.
- Rpm meter – 1 nos.

Scope of Delivery:

- 1 Self contained "Pin on disc wear apparatus."
- 1 Instruction Manual consisting of experimental procedures, block diagram etc
- Test disc -2 nos.
- Dead weight :- 0.5 , 1 , 5 kg
- Specimens steel, brass and aluminum (diameter 6 x height 25 mm – 5 nos. each)

Required for Operation:

- Electric supply: single phase, 220V, 50 Hz, 5-15m amp. Combined socket with earth connection. Each voltage should be less than 5 volts.
- Floor area: 1.0 *1.0 meter.

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