

# IEICOS



## IEICOS Wear and Friction Tester (Pin-on-Disc Machine)

IEICOS manufactures wear and friction tester (pin-on-disc tester) for analyzing wear and friction characteristics of sliding contact. The wear and friction tester can be operated under both dry and lubricated conditions.

Various materials can be tested on the IEICOS Wear and Friction Tester (pin-on-disc machine).

IEICOS Wear and Friction Tester consists of a stationary stylus pin and a rotating disk below it. Parameters such as Normal Load, rotational speed and wear track diameter can be varied. Sensors are provided to measure normal load, wear (displacement), frictional force, speed. Digital displays are provided for display of the above parameters. The instrument is also provided with electronic motor controller for accurate speed control of the rotating disk.



IEICOS Wear and Friction Tester (pin-on-disc machine)

### Specifications:

Model: **IWFT-DD**

Disk Rotation Range: 100 - 1500 RPM

Maximum Normal Load: 20 Kg

Frictional Force Range: 0 - 20 kg

Wear Measurement Range: 0 - 4 mm

Pin Size: 3 - 12 mm

Disc Size: 160 mm dia x 8 mm thick

Operating Voltage: 230V AC 50 Hz

Weights: Provided

Cables: One set provided

Pins: One sample pin provided

Operation Manual: One provided

Model: **IWFT-B**

Basic Model with motor controller with digital speed indicator and sensor/digital indicator for frictional force measurement. Normal load known from weight applied and wear (displacement) measurement is by graduated scale.

### Accessories:

#### 1) Lubricant Re-circulating System

With lubricant enclosure, pump, valve and on/off control switch

#### 2) Digital Temperature Indicator - 2 Channel with temperature sensors

For measuring inlet and outlet temperature of lubricant.

#### 3) IEICOS Computer Interface Facility

For Model IWFT-DD to connect the instrument to a PC for display and data collection

#### 4) IEICOS Wear and Friction Tester Software

GUI based menu driven software to display all the parameters and to save the data to a file for analysis. Software is user friendly and works on Windows XP operating system.

Higher speed version, Higher normal load version and other custom configurations available on request.

## INDUSTRIAL ENGINEERING INSTRUMENTS

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Mechanical dimensions, location of components, specifications may be changed without notice to incorporate state-of-the-art technology and continuous improvement.