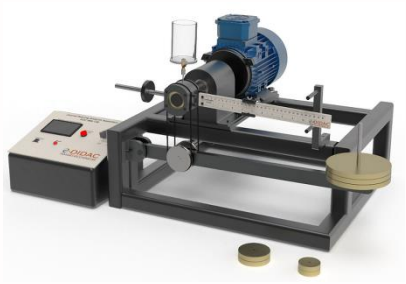
Journal Bearing Apparatus

(EDC-MM-128)

EXPERIMENTAL DATA:

- Frictional bearing in a journal bearing as
  - Bearing load
  - Speed
  - Lubricant with temperature



DESCRIPTION:

The apparatus used to test the bearing on high speed with load. Viscosity of the lubricant used is particularly focused. Apparatus used to study the various factors of friction. It contains a motor whose shaft rotates in a freely moveable bearing housing. The movement of the oil in the bearing can be observed.

Optional Software is available for Data Acquisition and Control Function.

SPECIFICATIONS:

- Visualization of hydrodynamic bearing.
- Variable speed of the motor driven.
- Continuous drip lubrication.
- Speed measurement sensor.
- Temperature sensor for measuring oil temperature in bearing housing.
- LCD display and control.

DIMENSIONS AND WEIGHT:

- L x W x H (mm): 600 X 600 X 400 approx.
- Weight: 35 kg approx.

SCOPE OF DELIVERY:

- 1 x EDC-MM-128.
- 1 x Instructional Manual.

TECHNICAL DATA:

- Journal bearing:
  - Día: 30mm.
  - Width: 50mm.
  - Friction pair: steel.
- Electrical Driven Motor: 0.37kW.
- Oil for Lubrication.
- Torque Weights:
  - 50N.
  - 20N.
  - 10N.
  - 5N.
- Temperature sensor for measurement.
- 230V, 50Hz, 1 phase.