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Product Name : Journal Bearing Friction	**Product Code :** ASTRALAB-SUPPLYA119001

Description :

Journal Bearing Friction

Technical Specification :

The basic tribological phenomena of journal bearings can be investigated using this unit.

The journal bearing to be investigated consists of a stainless steel bearing journal and the free-moving gunmetal bearing housing.

A three-phase ac motor with a frequency converter for speed control serves as the drive.

A lever with a sliding weight attached to it is connected to the bearing housing.

This enables an external moment to be set corresponding to the friction moment generated in the bearing.

Another lever, combined with a set of weights, applies the defined load to the bearing.

Unit to investigate basic tribological topics

Radial journal bearing with stainless steel shaft journal and freemoving bronze bearing shells

Three phase AC motor with frequency converter for speed control

Load applied to journal bearing using a mechanical lever

Measurement of friction moment acheived through the use of a lever with sliding weight

Balance weight to compensate for the intrinsic weight of the measuring set-up

Drip lubrication for continuous lubricant supply (wick oiler)

Drip tray for leakage oil

Inductive speed sensor

Thermocouple for oil temperature measurement

Control housing with digital displays for oil temperature and speed, also allows speed to be varied.

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