



Tesca Bearing Friction is designed to demonstrate the categorical difference between sliding and rolling friction and its application for different industrial uses. Apparatus uses different types of the plain and rolling bearing of different materials like iron and bronze. Apparatus includes flywheel mounted upon an axle. Axle is supported in a plain or ball bearing and bearing housing is attached with wall bracket. Torque is applied by putting dead weights on the flywheel using a hanger which corresponds to the frictional torque when motion begins. Bearing Friction provides experiments relating to friction on sliding and rolling bearings.

Bearing shells in various materials serve as sliding bearings. Bearing forces are generated by the dead weight of a heavy flywheel. A torque is applied by means of weights that correspond to the frictional torque when the motion begins. When the rolling bearings have used the bearing friction is very low. In this case the flywheel can

be used for fundamental experiments in rotational dynamics.

The unit is intended for mounting on a laboratory wall.

Specifications:

- An experiment in sliding bearing friction with various material pairings and comparison with rolling bearings.
- 3 different bearing materials for sliding bearing shells.
- Stainless steel shaft.
- The flywheel of galvanized steel.
- Drive-by cable drum and weight set.
- The base plate of anodized aluminum.
- Experiments in rotational dynamics possible.

Experiments Capabilities:

- Determination of friction torque on sliding bearings: various material pairings by means of interchangeable bearing shells.
- Determination of the friction torque on a rolling bearing.
- Comparison between sliding and rolling bearing.
- Fundamental experiments in rotational dynamics.

Note: Specifications are subject to change.

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