

Product Name :

Bearing Friction

Product Code :

ALABS-A104-267

ALTEC™**Description :****Bearing Friction**

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 which correspond to the frictional torque when the motion begins. When the rolling bearings are 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.

Specification:

1. Experiment in sliding bearing friction with various material pairings and comparison with rolling bearings
2. 3 different bearing materials for sliding bearing shells
3. Stainless steel shaft
4. Flywheel of galvanised steel

5. Drive by cable drum and weight set
6. Base plate of anodised aluminium
7. Experiments in rotational dynamics possible
8. Box to house the components

Technical Data:

Sliding bearing half-shell material

- gunmetal
- PTFE (Teflon)

Grooved ball bearing

Bearing journal of shaft: $d=17\text{mm}$

Flywheel

- $d=300\text{mm}$
- weight: 22,2kg

Weights

- 1x 1N (hanger)
- 5x 1N
- 1x 2N
- 3x 5N

Base plate, LxWxH: 250x200x12mm



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