FADAK LAB EQUIPMENTS

# TOM-002 WHIRLING OF SHAFT

**RANGE OF EXPERIMENTS TO BE CARRIED OUT:**

1. To observe the whirling phenomenon.
2. To calculate the whirling speed of shaft.

## TECHNICAL DESCRIPTION :

This Apparatus is special developed for the study of whirling phenomenon. The Different diameter Shaft can be tested for different end connections.

The Apparatus consists of a frame support its driving motor, & fixing & sliding blocks, etc. A special design is provided to clear out the effects of bearings of motor spindle from those of testing shafts. An autotransformer is provided for regulating the speed of motor The special design features of this equipment are as follows :

### A. KINEMATIC COUPLING

This coupling is specially designed to eliminate the effect of motor spindle bearings on those of the rotating shafts.

### B. BALL BEARING FIXING ENDS

These ends fix the shafts while it rotates. The shaft can be replaced within a short tome with the help of this unit. The fixing condition of the rotating shaft as per the requirement.

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## END FIXING ARRANGEMENT :

At motor end as well as tail end different end conditions can be developed by making use of different fixing blocks.

1. Supported end condition : Make use of end block with single self aligning bearing.

2. Fixed end condition : Make use of end block with bearing.

**DIMENSIONS AND WEIGHT** :

Size :2.0 m.(L)x 0.6 m(W) X 0.5m ( H )

Weight :Approx. 50 Kg

**SERVICE REQUIRED :**

230 v Ac Supply 50 Hz

**SCOPE OF DELIVERY**:

**1.** Experimental Setup
**2.** Instructional Manual

**OPTIONAL FACILITY**: Data logging Facility

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