

Product Code . JL-FML-7333

Static and Dynamic Balancing Apparatus



Description

Static and Dynamic Balancing Apparatus

This equipment is designed for carrying out the experiment for balancing a rotating mass system.

The apparatus consists of a steel shaft fixed in a rectangular frame.

For static balancing, each block is individually clamped on the shaft and its relative weight is found out using cord and container system in terms of the number of steel balls.

A set of four blocks with a clamping arrangement is provided.

The system is provided with angular and longitudinal scales and is suspended with chains for dynamic balancing.

For dynamic balancing, a moment polygon is drawn using relative weights and angular and axial position of blocks is determined.

The block is clamped on the shaft is rotated by a motor to check the dynamic balance of the system.




Experiments:

To balance the masses statically and dynamically of a single rotating mass system.

Utilities Required.

To observation of the effect of unbalance in a rotating mass system.

Electricity 0.5kW, 220V, Single Phase.

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