

Product Name :
Astra Scientific Static and Dynamic Balancing Apparatus

Product Code :
DynamicsLab0012



Description :

Astra Scientific Static and Dynamic Balancing Apparatus

Technical Specification :

The experimental unit can be used to demonstrate imbalance and the balancing process clearly. The difference between static and a dynamic imbalance can be shown. Imbalance is determined and balanced by appropriate measures.

The main element of the experimental unit is a smooth shaft to which four variable imbalance masses are attached at any angular and longitudinal position. The shaft is mounted on ball bearings. A variable-speed electric motor and a belt drive it. The speed of the shaft is displayed digitally.

In order to determine the imbalance, a defined external moment is applied via an additional pulley with weights. This moment is compared to the moment of the imbalance masses. A transparent cover protects against contact with rotating parts and allows a clear view of the shaft. Unwanted vibrations are suppressed by using elastic bearing for the foundation.

FEATURES:

- Demonstration of imbalance vibrations at different speeds
- Comparison of static, dynamic or general imbalance
- Determine an imbalance
- Perform a balancing operation
- Representation of the fundamental processes involved in balancing

SPECIFICATION:

- Number of imbalance masses: 4
- Total imbalance: 880cmg
- Measuring ranges

speed: 0...1400min-1

- Required for operation

230V, 50Hz, 1 phase

230V, 60Hz, 1 phase; 120V, 60Hz, 1 phase



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