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Product Name :
Static And Dynamic Balancing Machine

Product Code :
LBNY-0005-14000042



www.laboratoryinstrumentindia.com

Description :

The main feature of the machine is that the cradle, in which the rotor to be balanced is supported, has only one degree of freedom which is that of rotation in a horizontal plane about the axis of the crossed spring pivot. The Static and Dynamic Balancing Machine has been developed to provide means for accurate experimental work in the balancing of rigid rotors. The position of the rotor in the cradle is adjusted so that one of the correction planes contains the axis of the cradle suspension and the rotor is balanced for moments about this correction plane by adjustments in the other correction plane. The design of the machine adheres to industrial practice and the machine may be used to balance real rotors of up to 152 mm (6") diameter and 450 mm length in addition to the fivedisc rotor provided. In either case the rotor is then completely balanced, both statically and dynamically. The rotor is then turned round in the cradle and balanced for moments about the other correction plane, or alternatively it is balanced statically.

Experimental Capability:

Four vector method of balancing, two- or three- vector method
Static balancing
Nodal point balancing
Pivot cradle balancing
Analytical analysis of unbalance
Graphical analysis of unbalance.

Technical Specification :

Provided with transducer and read-out system for amplitude measurement and stroboscope for angle measurement

Comprising cradle supported on crossed spring pivot and furnished with ball bearing system and variable speed electric drive.

To be complete with five-disc rotor on which the discs are adjustable for angular position and provided with a means for fitting out-of-balance and balancing masses.

To permit static and dynamic balancing of rigid rotors.

To determine a vector, pivot cradle and nodal point balancing.

Stroboscope for angle measurement.

Provision for testing rotors of different diameters all mounted on a substantial base plate

Masses to be included.



Laboratory Instrument India