



Email : sales@laboratoryinstrumentindia.com

Product Name :
Machinery Diagnostic System

Product Code :
LBNY-0005-14000013



Description :

The Machinery Diagnostic System permits vibration measurement exercises whereby readings can be taken from different points on the apparatus and at different motor speeds. The Machinery Diagnostic System can be used to simulate certain types of damage and investigate its effects on the vibration spectrum. Balancing of rigid rotors and alignment of shafts can also be practiced. Users can also complete exercises from purposefully induced faults (measurement of vibration displacement, velocity and acceleration in the time/frequency range). A speed controller and tachometer display are supplied to allow the accurate controlling and displaying of the speed of the motor. The base frame, with integral grooves allows the elements of the apparatus to be moved and adjusted into position accurately. The Machinery Diagnostic System allows the quick and easy mounting of the key component parts. The key components of the base unit are the mechanical elements (i.e. motor, bearing blocks and shaft with rotors).

Experimental Capabilities:

Transducers and measuring devices
Fundamentals of measurement of shaft and bearing vibrations
Introduction to vibration measurement methods on rotating Machinery Systems.
Fundamentals of vibration measurement methods.

Technical Specification :

Bench top Base unit for Machinery Diagnostic System
Interchangeable bearing blocks and roller bearings
Flexible coupling
Motor can be aligned at different angles

Motor, electronically controlled and speed/power displayed on control box
2 shafts: 1x short, 1x long
2 balanced rotors with interchangeable balance weights/ screws
Rigid base plate with grooved elements for quick and easy install and adjustment of components
Safety guard
Comprehensive instruction manual.



Laboratory Instrument India