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**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

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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**