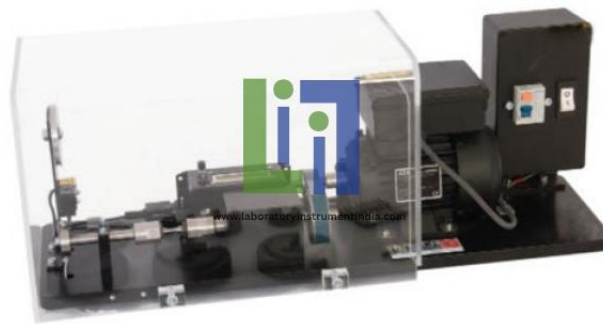




Email : sales@laboratoryinstrumentindia.com

**Product Name :**  
Rotating Fatigue Machine Apparatus

**Product Code :**  
LBNY-0005-17600022



#### **Description :**

The Rotating Fatigue Machine Apparatus is mounted on a heavy base plate and is designed to overhang the bench. Specially machined necked test specimens are provided. This Rotating Fatigue Machine Apparatus has been designed to introduce students to the effects of fatigue. The loading system cancels its own self-weight enabling any desired value of bending stress to be applied. Loads are applied to the test specimen using a load hanger and a set of calibrated weights. When failure occurs, a micro switch stops the motor and the cycles to failure are registered on a revolution counter. A motor rotates a specimen through a gear and pulley arrangement which can be adjusted. During the rotation the specimen is subject to sinusoidal variation of bending stress. A safety guard shields all rotating parts.

#### **Experimental Capabilities:**

Introducing students to S-N curves  
Varying materials on fatigue limits  
Specimen geometry

To make an introductory study of fatigue using a Wohler rotating fatigue apparatus, including the time to failure caused by various stress levels and materials.

#### **Technical Specification :**

A motor rotates a specimen through a gear and pulley arrangement which can be adjusted. This Rotating Fatigue Machine Apparatus has been designed to introduce students to the effects of fatigue. During the rotation the specimen is subject to sinusoidal variation of bending stress.



**Laboratory Instrument India**