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**Product Name :**  
Alternating Bending Fatigue Machine

**Product Code :**  
LBNY-0005-1760009



#### **Description :**

The Alternating Bending Fatigue Machine is a further evolution of the popular Rotating fatigue Machine. All these parts are enclosed by a transparent safety guard, which ensures rotating components are kept away from the user but full view of parts and count is kept. Rather than rotating a specimen to fatigue failure, the Alternating Bending Fatigue Machine induces an alternating displacement to the free end of a cantilevered test specimen in order to fatigue fail the part. A heavy base plate houses the control box, motor, fluctuating components, test specimen and digital counter.

#### **Experimental Capabilities:**

Reading and working with nomograms

Cantilever test specimens

Bending fatigue of a cantilevered strip of metal or plastic in modes varying from alternating to fluctuating stresses  
Fatigue

#### **Technical Specification :**

Rotational speeds can be either 5700 or 1425 rpm depending on gearing

Variable stress range

Includes dual micro switches to detect failure of the specimen and stop the motor

Specimens in the range of 100 mm in length, 5-10mm in width and up to 5mm in thickness in metal or plastic

To be a self-contained, bench-mounted machine for the imposition of an alternating displacement on the free end of a cantilever test specimen

Guarded machine with a digital readout of revolutions to failure

The apparatus is mounted on a heavy base plate with rubber mounting feet

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Supplied with a rotating faceplate carrying an adjustable eccentric bearing driving a connecting rod attached to a cantilever  
Load hanger and calibrated weights set to provide counterbalance and restrict horizontal displacement during fluctuations.



**Laboratory Instrument India**