



### Features

- An interlocking system provided puts off the motor at specimen failure.
- Light weight, compact size and very simple design.
- Table model, no need of foundation
- Simple lever system of changing load
- Calibration is in Nm

### Application and operation

This machine is used to test the fatigue strength of materials and to draw S-N diagram by research institutes, laboratories, material manufactures and various industries. This is a rotating beam type machine in which load is applied in reversed bending fashion. The standard 8mm dia. specimen is held in special holders at its end loaded such that it experiences a uniform bending moment. The specimen is rotated at 00rpm. By a motor. A complete cycle of reversed stresses in all fibres of the specimen is produced during each revolution. The bending moment is applied with a lever system and can be easily changed by moving a weight over the lever. Total number of revolutions at which the

specimen fails is recorded by a digital counter. An interlocking system puts off the motor at specimen failure. Machine meets requirement of IS:5075-1969.

### Technical Specifications

- Maximum bending moment 20Nm
- Bending moment adjustable 2.5-20Nm
- Ranges    Range-I : 2.5-12.5Nm  
                  Range-II : 12.5-20Nm
- Gripping dia of specimen 12mm
- Testing dia of specimen 8mm
- Rotating speed 4200 rpm
- Accuracy of applied bending  $\pm 1\%$  moment
- Digital counter 8 Digital
- Power required 0.5 HP
- power supply 3ph, 440, V, 50Hz, A.C.
- Overall size (approx.) 0L.X500W X600H mm
- Weight (approx.) 120kg

Note: Specifications are subject to change.

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