

Product Name :
Astra Scientific Fatigue Testing Machine

Product Code :
Mechanics0001



Description :

Astra Scientific Fatigue Testing Machine

Technical Specification :

This machine is used to test the fatigue strength of materials and to draw S-N diagram by research institute, laboratories, material manufacturers and various industries. This is rotating beam type machine in which load is applied in reversed bending fashion. The standard 8 mm dia specimen is held in special holders at its ends and located such that it experiences a uniform bending moment. The specimen is rotated at 4200 rpm 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 the lever system and can be easily changed by moving a weight over the lever. Total number of revolution at which the specimen fails are recorded by a mechanical counter. An interlocking system puts off the motor at specimen failure. Machine meets requirement of

Salient Features

- 6 digit electronic counter instead of mechanical counter can be supplied at additional price.

- Machine with maximum bending moment upto 400 Kg. cm can be offered on request.
- Table model, no need of foundation.
- Simple lever system for changing load.
- Calibration in Nm available on request.
- Light weight, Simple design, Compact Size.

Specification	
Max. bending moment (Kg. cm)	
Bending moment adjustable (Kg.cm)	
Range 125-200 Kg.cm II - Kg.cm	
Gripping dia of specimen (mm)	
Testing dia of specimen (mm)	
Rotating speed in RPM	
Accuracy of applied bending moment	
Mechanical Counter: No. of digits Multiplying factor	
Power required in HP	
Main Supply	
Overall size (mm)	



Astra Scientific

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