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Fatigue Testing Machine

ZI 7006

Standards:

Specification:

Application & Operation

This machine is used to test the fatigue strength of materials and to draw S-N diagram ideal equipment for Technical Institutions, Research Institutes, Laboratories etc. This is a 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 loaded 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 fibers 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 are recorded by a mechanical counter. An interlocking system puts off the motor at specimen failure. Machine meets requirements of International / Indian Standards

Features

- Light weight, compact size, simple design
- Table model, no need of foundation
- Simple lever system for changing load
- Accurately calibrated as per IS 5075
- Calibration in Nm available on request 8 digit electronic counter instead of mechanical

counter can be supplied at additional price and the model is termed as FTG-8 (D).

Machine with maximum bending moment upto 400 kg cm can be offered on request.

Technical Specifications

Maximum bending moment	kg cm	200
Bending moment adjustable.	kg cm	30 – 200
Ranges.	I-kg cm	30 – l 00
	II-kg cm	100 – 200
Gripping dia of specimen	mm	12
Testing dia of specimen	mm	8
Rotating speed	rpm	4200
Accuracy of applied bending moment.		± 1%
Mechanical counter No. of digits		8
Power required	HP	0.5
Main supply	A.C.3 ph.	440 V, 50 Hz
Overall size (approx)	mm	1000L x 500W x 600H
Weight (approx)	kg	120