

Digital Fatigue Testing Machine



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 manufacturers and various industries. 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 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 requirements of IS 5075-1959.

FEATURES :

Light weight, compact size, Simple design

Table model, no need of foundation.

Simple lever system of changing bending moment load.

Accurately calibrated as per IS 5075

(Machine with maximum bending moment upto 40Nm can be offered on request.)

Technical Specifications :

Maximum bending moment	2Nm
Bending moment adjustable	2.5-20 Nm
Ranges	Range – I 2.5-12.5Nm
	Range – II 12.5-20Nm
Gripping dia of specimen	12mm
Testing dia of specimen	8 mm
Rotating speed	4200 rpm
Accuracy of applied bending moment	± 1%
Power required	0.5 HP
Power supply	3 Ph, 440V, 50Hz, AC
Overall size(approx)	1000L x 500 W x 600 Hmm
Weight (approx)	120kg.

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