FATIGUE TESTING MACHINE

This machine is used to test the Fatigue strength of materials and to draw S-N diagrams by research institutes, laboratories, material manufacturers, and various industries. This is a rotating beam-type machine in which load is applied in a reverse bending fashion. The standard 8mm dia specimen is held in special holders at its ends and loaded such that it experiences a uniform bending moment. The specimen rotates at 4200 rpm by a motor.

DESCRIPTION: -

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. The 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 the requirements of IS 5075-1959.

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FEATURES: -

- Light weight, compact size, Simple design ◎ Table model, no need at the foundation.
- Simple lover System of changing bending moment load.
- Accurately Calibrated as per IS 5075.
  (Machine with maximum bending moment up to 40Nm can be offered on request)

Technical Specification	Model No. HFTG-8
Maximum Bending Moment	2 Nm
Bending Moment adjustable	2.5-20 Nm
Range	Range-I 2.5-12.5 Nm
	Range-II 12.5-20.0 Nm
Gripping Dia of specimen	12 mm
Testing dia of specimen	8 mm
Rotating speed	4200 rpm
Accuracy of applied bending moment	± 1 %
Digital Counter	8 Digit
Power required	0.5 HP
Power Supply	3 ph,440 V,50 Hz, A.C
Overall size (approx.)	1000 L X 500 W X 600 H mm
Weight (approx.)	120 kg

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