

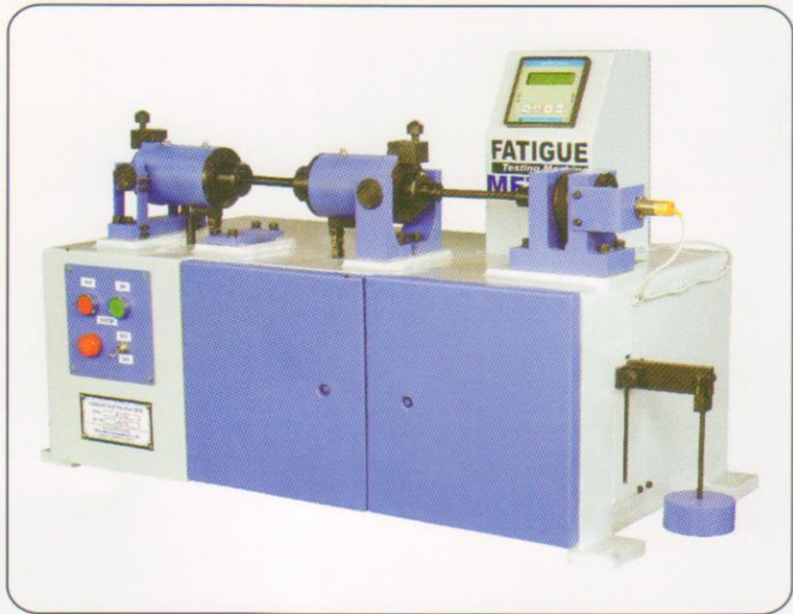
APPLICATION & OPERATION :

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 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 requirements of IS : 5075-1969

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 400 kgcm can be offered on request)



Model: MFT-8-D

TECHNICAL SPECIFICATIONS :

Maximum bending moment	200 kg cm
Bending moment adjustable	25 - 200 kg cm
Ranges	Range - I) 25 -125 kg cm Range - II) 125 - 200 Kg cm
Gripping dia of specimen	12 mm
Testing dia of specimen	8mm
Rotating speed	4200 rpm
Accuracy of applied bending moment	± 1%
Digital counter	8 Digits
Power required	0.5 HP
Power supply	3ph, 440 V, 50 Hz, A.C.
Overall size (approx)	1000 L x 500 W x 600 H mm
Weight (approx)	120 kg