



FATIGUE TESTING MACHINE

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.



BFTG - 8

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 at foundation.
- Simple lever 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. BFTG-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 |