FADAK
LAB EQUIPMENTS

SOM-003 FATIGUE TESTING MACHINE

DESCRIPTION :

A specified mean load (which may be zero) and an alternating load are applied to a specimen and the number of cycles required to produce failure recorded. Generally, the test is repeated with identical specimens and various fluctuating loads

RANGE OF EXPERIMENTS :

1. To Perform Fatigue Test

TECHNICAL DESCRIPTION :

This machine is used to test the fatigue strength of materials. 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 completer 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 Digital counter. An interlocking system puts off the motor at specimen failure. Machine meets requirements of IS 5075 - 1969

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1. Light weight, compact size, simple design.
2. Table model, no need of foundation.
3. Simple lever system of changing load.
4. Accurately calibrated as per IS 5075.

SERVICE REQUIRED : Power Supply: 440 V, 50 Hz, A.C.Three Phase , Foundation As Per Drawing
SPACE REQUIRED : 1.5 m. (L) x 1.0 m (W) X 1 m (H).
WEIGHT : @ 200 Kg

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