

SOM-001 ANALOG UNIVERSAL TESTING MACHINE



DESCRIPTION : A universal testing machine (UTM) is used to test the tensile strength and compressive strength of materials. The "universal" part of the name reflects that it can perform many standard tensile and compression tests on materials, components, and structures

RANGE OF EXPERIMENTS :

1. To Perform Tension Test
2. To Perform Compression Test
3. To Perform Transverse Test
4. To Perform Bending Test

TECHNICAL DESCRIPTION :

The Universal testing machine comprises of
Load Frame consisting of two strong supports for the machine.
Cross head - A movable cross head (crosshead) is controlled to move up or down
Dial gauge with chart recorder to measure the load
Test fixtures, specimen holding jaws

FEATURES:

- a. Loading accuracy as high as $\pm 1\%$.
- b. Straining rate to cover a wide range of materials.
- c. Continuous roll type load elongation recorder.
- d. High reading accuracy due to large size and design of dial.
- e. Simple controls to facilitate ease of operation.

- f. Fully enclosed and protected load-measuring system.
- g. Wide range of standard and special accessories including load stabilizer.
- h. Robust straining frame.
- i. Suitable for standard specimen and also structures.
- j. Motorised UP/DOWN movement of lower crosshead to enable easy and rapid fixing of test specimen.

Capacity Of UTM: 100 KN TO 2000KN

SERVICE REQUIRED : Power Supply: 440 V, 50 Hz, A.C.Three Phase , Foundation As Per Drawing

SPACE REQUIRED : 2 m. (L) x 2.0 m (W) X 3 m (H).

WEIGHT : @ 2000 Kg