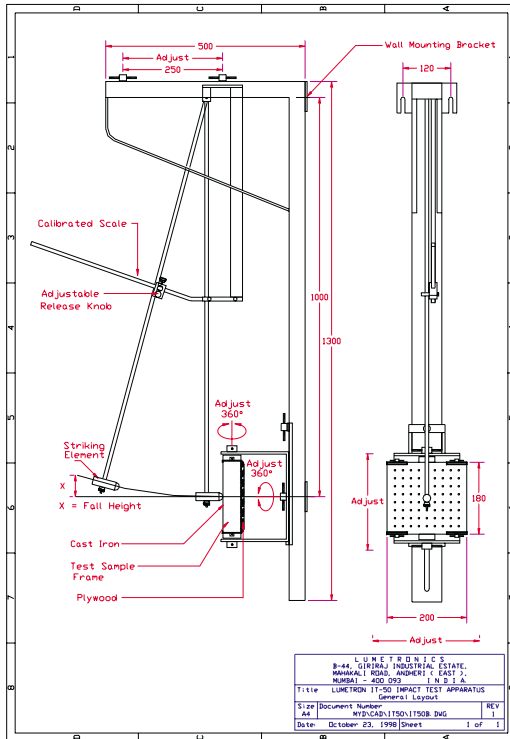


LUMETRON IT-50 Impact Test Apparatus



Impact test is an essential physical test prescribed in many standards to test samples for mechanical shock. The **LUMETRON IT50 Impact Test Apparatus** is designed to perform such tests. The test is carried out to ensure that the test items have adequate mechanical strength to withstand the stresses and rough handling imposed during installation and use. It is adapted to test various types of electrical accessories such as switches, sockets, plugs, starter seats and other electrical appliances.

The **IT50** is a swing pendulum type of impact test apparatus designed to meet the requirements for several BIS, IEC, BSI and other standards specifications. The specimen to be tested is mounted on an adjustable base plate. The swing hammer can be released from a calibrated height corresponding to the required impact energy. The specimen is said to comply with the test requirements if it does not break, crack or split after undergoing the specified impact.

It's rugged construction enables either industrial or laboratory use. The use of precision parts and components provides accurate results.

Features

- * Precise drop height release mechanism calibrated in Nm.
- * Adjustable drop height.
- * Steel shaft as specified in the standards with close tolerance dimensions.
- * Fully adjustable specimen holder with four axes of movements.
- * Hammer vertical position can be adjusted to suit thickness of the test sample.
- * Polyamide hammer head of specified hardness.
- * Rigidly constructed steel frame with wall mounting brackets.
- * Constructed as per the relevant specifications.

Specifications

Drop Energy : 0.10 Nm to 0.50 Nm

Impact Energy in Nm	= 0.00147 x (Drop Height in mm)
Drop Height in mm	= 680.27 x (Impact Energy in Nm)

Drop Height : Adjustable from 50 to 350 mm by release mechanism

Hammer Head Radius : 10 mm

Hammer Head Material : Poly Amide, Hardness = R 100

Hammer Weight : 150 grams

Hammer Length : 1000 mm

Specimen Holder : 200 mm W x 180 mm H, perforated grid on one side, 10 mm ply board on other side

Specimen Adjustment : +/50 mm Horizontally

+/75 mm Vertically

Dimensions (mm) : 1300 H x 500 D x 200 W