Modulus of Elasticity, Stress & Strain Analyses (EDC-MESM-530)

SPECIFICATIONS:

- Designed for determining axial deformation and diametrical extension of concrete cylinder specimens during compression tests.
- Used to measure strain and deformation characteristics of concrete and cylindrical specimens.
- Includes 2 dial gauges with 0.001 mm precision.
- Lightweight metal castings for easy clamping to specimens.
- Features two length gauge bars for accurate measurements.
- Dial gauge specifications: 5 mm travel, 0.001 mm divisions.
- Suitable for compress meter testing of cylinder diameters.

DESCRIPTION:

The Concrete Compression Testing Equipment is a specialized tool designed to accurately measure the axial deformation and diametrical extension of concrete cylinder specimens under compressive loads. It is primarily used for evaluating strain and deformation characteristics of concrete in compliance with standard testing procedures. The system includes two precision dial gauges with 0.001 mm resolution, allowing for highly accurate deformation readings. The device is constructed using lightweight yet durable metal castings, which are easily clamped onto test specimens, ensuring secure positioning during testing.

This equipment is compatible with cylindrical specimens of sizes 150 × 300 mm, 160 × 320 mm, and 6" × 12", making it ideal for a wide range of concrete strength assessments. It features two length gauge bars, ensuring reliable and repeatable results. Additionally, the wooden box provides safe storage and protection, prolonging the lifespan of the equipment. The compress meter design allows for efficient testing procedures, making it a valuable tool for laboratories, construction sites, and research institutions.

TECHNICAL DATA:

- **Size of test specimen:**
  - Cylindrical specimens: 150 × 300 mm, 160 × 320 mm, 6" × 12".
  - Cuboid specimens: 150 × 150 × 300 mm, 100 × 100 × 300 mm.
- **Dial gauge specifications:**
  - Measurement range: 0 – 1 mm.
  - Precision: 0.001 mm.
  - Travel range: 5 mm.
- **Clamping system:**
  - Central distance between upper and lower clamping rings: 150 mm.
  - Distance of the lower ring from the bottom: 75 mm.
- **Storage:**
  - Supplied with a wooden box for safe transportation and storage.