

EQUIPMENT FOR STRAIN MEASUREMENT

Longitudinal Compressometer

Used for determination of modulus of elasticity of concrete using 15 cm dia x 30 cm high cement concrete cylinders subjected to compressive loads.

The apparatus consists of two annular frames of cast aluminum alloy with two gauge bars. The bottom frame is provided with three clamping screws with hardened conical ends to hold the specimen at two diametrically opposite points. Both the frames are joined together with a pivot rod and tensioning spring. On the diametrically opposite end of the pivot, a dial gauge of 0.002 mm x 5 mm range is fitted to the top frame with a bracket. The plunger of the dial gauge rests on an anvil fixed to the lower frame. The dial gauge records the deformation of the specimen under compression.

Supplied complete in a wooden box.

●● HC46.05

Longitudinal Compressometer (150 mm dia)

Longitudinal Compressometer for 150 mm dia cylinder and 300 mm height. Unit is supplied with dial gauge 0.002 x 5 mm.



HC46.05

●● HC46.505

Longitudinal Compressometer Electronic (150 mm dia)

Same as HC 46.05 but provided with a digital gauge with a sensitivity of 1micron.

Change in length under load is directly displayed on the LCD screen.

●● HC46.06

Longitudinal Compressometer (100 mm dia)

Same as HC46.05 but for 100 mm dia cylinder specimens.

●● HC46.506

Longitudinal Compressometer for Electronic (100 mm dia)

Same as HC46.505 but for 100 mm dia cylindrical specimens.

●● HC46.10

Lateral Extensometer (150 mm dia)

For measuring the lateral extension of 15 cm dia concrete cylinders during the compression test.

The apparatus consists of two semi-circular frames pivoted at one end and carrying a dial gauge of 0.002 mm x 5 mm range at the other. Four clamping screws are provided for initial setting of the instrument. The dial gauge records the deformation readings magnified 2.5 times.

Supplied complete in a wooden box.



HC46.10

●● HC46.510

Lateral Extensometer Electronic (150 mm dia)

Same as HC 46.10 for measuring lateral extension of 15 cm dia concrete specimen during compression test but provided with digital dial gauge. lateral deformation is indicated on the LCD screen in mm. Reading is to be multiplied by 2.5 for lateral extension.

●● HC46.11

Lateral Extensometer (50 mm dia)

For 50 mm dia cylindrical specimens.

●● HC46.511

Lateral Extensometer Electronic (50 mm dia)

Same as HC46.510 but for 50 mm dia cylindrical specimens.