



LABORATORY VANE SHEAR APPARATUS - MOTORISED

Applications :

Vane shear test is a useful method of measuring the shear strength of clay. It is a cheaper and quicker method. The test can also be conducted in the laboratory. The laboratory vane shear test for the measurement of shear strength of cohesive soils, is useful for soils of low shear strength (less than 0.3 kg/cm²) for which tri-axial or unconfined tests can not be performed. The test gives the un-drained strength of the soil. The undisturbed and re-moulded strength obtained are useful for evaluating the sensitivity of soil.

Brief Construction Details :

Consists of a torque head adjustable in height by means of a lead screw rotated by a drive wheel to enable the vane to be lowered into the specimen. Rotation of the vane is motorized, which operates a worm gear arrangement turning the upper end of a calibrated torsion spring. Vane dia, rod dia, vane size & vane height are as per IS specification.



The Vane shaft is attached through the hollow upper shaft to re-settable pointer, which indicates the angle of torque on a dial graduated in degrees. The dial reading multiplied by spring factory gives the torque. A container for soil tube of 38mm I.D. & 150 mm long can also be used as container. Complete with set of springs, one each of approx 0.2 kg/cm, 4 kg/cm, 6 kg/cm, 8 kg/cm

Motorized unit:

Rate of rotation : 1/60 RPM

Relevant Test Standard : IS : 2720(PART-XXX)

Technical Specification

- Overall Dimensions : 510 X 310 X 250 (L X W X D) mm
- Net weight (in kg) : 11 kg

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