

Product Name :
Static Cone Penetrometer, 30KN (300KGF) Capacity, Hand Operated

Product Code :
NLAB-TESTINGLABM109062



Description :

Static Cone Penetrometer, 30KN (300KGF) Capacity, Hand Operated

Technical Specification :

Static cone penetration test is internationally recognized as a standard field test to collect data about bearing capacity and frictional resistance of soil.

Static Cone Test is unsuitable for gravelly soils. The Static Cone resistance is correlated with the 'N' value as obtained from standard penetration test, thus increasing the utility of the test.

The drive is by means of a rack and pinion manually through a gearing arrangement. The gear box and pinion are fixed on two handles, sprockets and chain arrangement. The movement of the rack is guided by a bracket (attached to the rack) and two pillars. The penetration resistance i.e. the pressure is indicated on hydraulic gauges through a hydraulic measuring head. Two pressure gauges of 15cm dia dial and 2 capacities 0-160kg/cm are provided. An automatic cut-off valve, to protect the low capacity gauge from

being overloaded is provided. The 2 valve can be adjusted and locked at desirable values between 20 to 60cm . A provision is made to anchor the unit to the ground (with the help of four anchors supplied with the unit) and there is a provision for lateral 2 movement of the unit so that subsequent tests could be performed without shifting the entire anchorage. A 10cm penetration cone with friction jacket is provided along with fifteen mantle tubes (non-uniform having an effective length of 1 m each with sounding rods for finding out the cone (point) resistance or jacket friction.

It consists of :

- 01)** Penetration Cone, steel 60 angle 10cm base area with friction jacket One
- 02)** Mantle Tube, non-uniform , 36mm OD at the two ends and reduced dia in between with sounding rod working length 1mfifteen.
- 03)** Load Measuring Head, with Automatic Cut off valve and Oil Can, without Pressure Gauge One
- 04)** Pressure Gauge, 0-60kg/cm One
- 05)** 2 Pressure Gauge, 0-160kg/cm One
- 06)** Screw Anchor , with Bolt Four
- 07)** Anchor Driving Handle One
- 08)** T-Rod One
- 09)** Spanner One
- 10)** Extension Pipe 0.5m long for Anchor Driving Handle Four

Note : Uniform dia mantle tubes can be ordered at extra cost.

Optional Extra

Mantle Tube, 36mm uniform OD with Sounding Rod, working length 1 m

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