



4.5kg Professional Clegg Hammer Soil Strength Tester

The 4.5 Kg CIST/883 Clegg Impact Soil Tester provides an easy and straightforward means for measuring and controlling soil strength and consolidation levels during trench re-instatement. The readout is clamped to the guide tube and the displayed reading is viewed from the top during use. Single button operation design provided for easy use.

Operating Principle

The Tester consists of a 4.5 kg compaction hammer operating within a vertical guide tube. The Hammer falls through the tube when released and strikes the surface under test, decelerating at a rate determined by the stiffness of the material within the region of impact. The readout registers the deceleration in units of Impact Value (IV). The IV is an indication of soil strength.

CBR Measurement

Good correlation with results from CBR tests exists. Data from the CIST/883 can be used in a similar manner to results from CBR tests performed in the laboratory and in the field. The CIST/883 display can directly show the %CBR result based upon Dr Clegg's original pioneering work.

Tough Design

The CIST/883 Clegg Impact Soil Tester has a guide tube made from a high density material designed for strength, rigidity, lightweight, high impact resistance and excellent temperature characteristic. Readout made of a high strength alloy. The CIST/883 battery compartment, sealed to IP67, is fitted with 2 x AA batteries.

Usage

The instrument is used to confirm uniform compaction of over wide areas of ground, identifying poorly compacted areas and ineffective rolling of materials.

CIST/883 Readout Unit

The Readout Unit displays readings of Impact Value (IV) and also shows the number of times that the hammer has been dropped during each test operation. Example: readings of 25 IV and drop number 4 are shown on the readout unit in the picture on the left. Carrying out a test is quick and straightforward. The ground surface is brushed lightly with the foot to remove loose material and the guide tube is placed in position. The digital readout is located on the guide tube, shown above, during testing allowing easy use as there is no need to hold the readout in the hand. The hammer is raised to a height of 450 mm as indicated on the hammer head and then allowed to fall freely. This procedure is repeated five times, the reading achieved on the fifth drop being recorded as the median Value. Software selectable Quality Assurance (Q.A.) Readout firmware can advise the user of a failed reinstatement. Tables of target IV for a range of backfill and subgrade materials are given in the operating manual, enabling the operator to check the compliance of reinstatements with the specification levels.



Standard Package Includes:

Clegg 4.5kg hammer & T handle, guide tube with locating pin & chain, readout bracket with side clamps, CIST/883 readout unit, connecting cable, operational check ring, instruction manual, test calibration certificate, hard carry case.

4.5kg Bluetooth unit available - *please contact one of our sales specialists for more information*



This instrument is available for hire

