

Product Name :
Semi Automatic Compactor

Product Code :
NLAB-TESTINGLABM109017



Description :

Semi Automatic Compactor

Technical Specification :

Now a days almost every soil laboratory conducts compaction and penetration tests on soils. In both standard and heavy compaction tests the operator has to count the number of blows of the rammer on each layer of soil during compaction. A mechanically cum electrically operated semi-automatic compactor is therefore devised to eliminate hand compaction process. Which also considerably saves time with the Rammers provided two stroke lengths, available, the compactor can be used for normal compaction/heavy compaction as well as C.B.R compaction.

Specification :

It is a motor driven mechanical compactor useful for soil compaction into 100mm or 150mm diameter moulds. Two sets of Rammers are provided, one of 2.6 kg and arranged for 310mm drop and other 4.89kg and arranged for 450mm drop. For compaction soil into 150mm dia moulds, 100mm face dia Rammers having weight 2.6kg and 4.89kg are used. Where as for 100mm dia moulds they are of

50mm dia. The rammer assembly is provided with a ratchet and pawl arrangement to lift it from the top of the soil layer. When the rammer ratchet and pawl arrangement to lift it from the top of the soil layer. When the rammer reaches the required height the pawl release the rammer which falls freely on soil surface. The release mechanism is operated by an arm moving up and down which is connected to a reduction gear coupled to the motor through another arm. An automatic blow counter fitted to the compactor is used to set the number of blows. The base plate of the specimen mould is to be fitted to the rotating base plate of the instrument which marks 1/5" revolution per stroke. The equipment is suitable for operation on 230 Volts, 50 cycles, Single Phase, A.C. Supply moulds are to be ordered separately.

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