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Digital California Bearing Ratio Test Apparatus ZI 3096

Standards:

Specification:

The Labtest Digital CBR Testing Machine is designed for performing laboratory evaluation of the California Bearing Ratio value of highway sub bases and subgrade and for the determination of strength of cohesive materials which have maximum particle sizes less than 19 mm (3/4"). The machine is designed to be mounted on a suitable bench and comprises of a robust and compact two column frame with adjustable upper cross beam. The frame is 50 kN capacity. Three test speeds are provided 1.25 mm/min, 1.50 mm/min & 2.5 mm/min tests. This main feature allows the user to perform tests. Laboratory California Bearing Ratio Apparatus with software & PC interface.



Salient Features:

1. No need of separate observation on dial gauge and proving ring.
2. Facility to readout rate of loading in mm/minute.
3. Tare system to nullify initial load
4. The digital lcd display will retain the peak value until it is cleared.
5. Flow value and load on a single screen.
6. Flow value with a least count of 0.01 mm with accuracy of 1%.
7. Load value with a least count of 0.1 kg / 0.001

kn with accuracy of 1%.

8. Back light facility to observe the readings even in the dark.
9. Two line readout showing load, flow, and speed.
10. Software interface to PC and plot live graph.

Technical Specifications:

1. ZI 3096A Three Speed Load Frame, 50kn (5000 Kgf) Capacity
2. ZI 3096B Mould 150mm Id X 175mm High
3. ZI 3096C Perforated Base Plate for ZI3074- 2 Mould
4. ZI 3096D Extension Collar, 150mm Id X 50mm High
5. ZI 3096E Penetration Piston, 50mm Face Dia.
6. ZI 3096F Adjustable Bracket, for Penetration Dial Gauge
7. ZI 3096G Circular Metal Spacer Disc. with Detachable Handle 148mm Dia X 47.7mm Hight
8. ZI 3096H Annular Metal Weight, 2.5Kg, 147mm Dia with 53 mm Dia Central Hole
9. ZI 3096I Perforated Metal Weight 2.5 Kg. 147mm Dia, with 53mm Dia Soft
10. ZI 3096J Perforated Plate, 148mm Dia, with Adjustable Stem and Lock Nut
11. ZI 3096K Metal Tripod for Dial Gauge
12. ZI 3096L Cutting Collar
13. ZI 3096M Rammer 2.6Kg, 310mm Controlled Drop
14. ZI 3096N Rammer 4.9Kg, 450mm Controlled Drop
15. ZI 3096O S Type Load Cell Capacity 50 kN
16. ZI 3096P LVDT, 25 mm Travel, 0.01mm Least Count (Optional Extras)