

## DIGITAL CBR TEST MACHINE

STANDARDS: EN 13286-47, BS 1377:4, ASTM D1883, AASHTO T193, NF P94-078, UNI CNR 10009

The Digital CBR Test Machine is designed for performing laboratory evaluation of the CBR value of highway sub-bases and sub-grade and determination of the strength of cohesive materials.

The device is composed of a robust and compact two column frame with adjustable upper cross beam driven by an electromechanical ram with a maximum capacity of 50 kN or 100 kN and a data acquisition and processing system.

The CBR Test Machine designed to load the penetration piston into the soil sample at a constant rate to measure the applied load and piston penetration at predetermined intervals.

Two models are available as 50 kN and 100 kN capacity.

Two test speeds are provided 1.0 mm/min for BS and 1.27 mm/min. for ASTM/EN/ AASHTO Tests.

The speed setting of the loading plate is controlled from the digital readout unit. For safety, the up and down travel of the lower platen is limited the use of limit switches.

The measuring system consists of a 50 kN or 100 kN capacity load cell according to capacity of frame fitted to the upper cross beam to read stability values and the 25 mm Displacement Sensor fitted to the column.

Supplied complete with LCD CBR Control Unit, 50 kN or 100 kN capacity Load Cell according to capacity of frame, 25 x 0.01 mm Linear potentiometric displacement transducer with holder, CBR Penetration Piston.



HR-S5000

### Technical Specifications:

Product Code	Product Name	Dimensions (cm)	Weight (kg)	Power Supply
HR-S5000	Digital CBR Test Machine, 50 kN capacity	47x70x110	80	220 V, 50 Hz, 1 ph
HR-S5000/60Hz	Digital CBR Test Machine, 50 kN capacity	47x70x110	80	220 V, 60 Hz, 1 ph
HR-S5010	Digital CBR Test Machine, 100 kN capacity	52X72X110	90	220 V, 50 Hz, 1 ph
HR-S5010/60Hz	Digital CBR Test Machine, 100 kN capacity	52X72X110	90	220 V, 60 Hz, 1 ph

### Spare Parts & Accessories:

Product Code	Product Name
HR-S5000/F	CBR Testing Frame, 50 kN capacity
HR-S5010/F	CBR Testing Frame, 100 kN capacity
HR-G0981	Load Cell, 50 kN capacity
HR-G0982	Load Cell, 100 kN capacity
HR-G0995	Displacement Sensor, 25 x 0,01 mm
HR-S5000/2	LCD CBR Control Unit
HR-S5000/1	CBR Penetration Piston