



Science Lab

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Product Name :

Automatic CBR Test Apparatus

Product Code :

SLE/CE/63



Description :

- The machine is 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.
- The ram speed can be set between 0.5 mm/min to 5 mm/min by using the digital readout unit.
- This main feature allows the user to perform tests complying to BS, EN, ASTM or AASHTO standards with the same machine.
- Rapid adjustment of the platen is also provided by up and down buttons which are located on the front panel of the machine.
- The machine is supplied complete with a 50 kN load cell, penetration piston, linear potentiometric displacement transducer (25 mm x 0.001 mm), computer software and connection cable.

Features:

- Calculates corrected CBR value at 2.5 and 5 mm the digital unit saves the load value at user defined displacement values such as 0.625, 1.25, 1.875, 2.5, 3.75, 5, 7.5, 10, 12.5 mm.
- Can make test with displacement and limited load control.
- 1/256000 points resolution per channel.
- 10 data per second sample rate for each channel.
- Ethernet connecting for computer interface.
- 800x480 resolution 65535 color TFT-LCD industrial touchscreen.
- Real time display of test graph.
- CPU card with 32-bit arm RISC architecture.
- Permanent storage capacity up to 10000 test results.
- 4 analog channels, 2 channels are active for CBR.
- The load corresponds to the displacements corrected respect to the linear region of the data has also saved.
- The % CBR at 2.5 mm and % CBR at 5 mm is also automatically calculated and saved.
- 4 main function keys.
- Multi-language support.
- 3 different unit system selection; kn, ton and lb.
- Real-time clock and date.
- Test result visualization and memory management interface.
- Remote connection through ethernet.

The CBR test machine is supplied complete with:

- Load cell, 50 kN
- Penetration piston
- Linear potentiometric displacement transducer with connection part, 25x0.001 mm
- Computer software
- Connection cable.
- Advanced report generation
- **Dimensions :** 480 x 650 x 1150 mm
- **Weight (approx.) :** 110 Kg
- **Power :** 370 W

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