

Product Name :
Digital Triaxial Shear Test Apparatus

Product Code :
TEST5019RFQLAB-0005



Description :

Digital Triaxial Shear Test Apparatus

Technical Specification :

DigiTriax is totally automated stresspath system for soils and conforms to the test requirements of IS-2720 (Part-XII) and BS-1377. All the modules namely load frame, confining pressure, back pressure, pore pressure or volume change are totally controlled by the dedicated computer. Once the specimen is assembled in the triaxial cell, required parameters like strain rate, confining pressure and back pressure are programmed through the computer. Controlling and data acquisition is supported by window based software. It can perform tests under the following conditions:

Shear in UC, UU, CU, CU & CD

Stress path triaxial test

K0 consolidation and swelling test (optional)

Detailed specifications of the individual modules are given as under:

Load Frame

It is a two-pillar type load frame that can accommodate triaxial cell up to 100mm dia specimen. Rate of strain is precisely controlled through micro stepper motor of fractional horsepower operating at 220volts, 50 Hz single phase supply (other voltages optional).

Capacity of the load frame : 50 kN

Rate of strain : 0.00001 – 9.9999 mm/min

Travel : 100 mm

Limit switches and L.E.D are incorporated in the hardware to arrest the travel limits and also to indicate the direction of movement (up/down).

triaxial Cells

Selection could be made from wide range of triaxial cells, they are light weight cells. Transfer bar (loading ram) passes through linear bearing making it almost friction free.

Base has four no-volume change valves one each for back pressure/pore pressure, confining pressure and top drainage.

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