Accuracy Is The
Underlying Strategy.

GCTS
TESTING SYSTEMS

Cyclic / Stress-Path Soil Triaxial System (STX-200)

FUNCTIONS

- Closed-Loop Digital Servo Control
- Specimen Diameter from 70 mm. to 150 mm.
- Dynamic and Static Loading
- Frequencies up to 30 Hz
- Electro-hydraulic
- Axial loads up to 50 kN
- Cell Pressures up to 2,000 kPa
- ASTM D3999, D4767, D5311 and Other Standards

DESCRIPTION

The STX-200 triaxial testing system is intended for performing dynamic tests for liquefaction, resilient modulus, cyclic strength, complex modulus, and other dynamic triaxial tests including synchronized cyclic axial and confining stress loading. This system also provides the necessary versatility to automatically perform conventional triaxial tests as well as advanced procedures such as stress or strain path.

The standard STX-200 system includes all the necessary hardware and software to automatically perform all triaxial stages including saturation, consolidation, and easily created cyclic and static customized test procedures. It allows creation of an unlimited variety of waveforms including user-generated profiles such as a digitized earthquake record. The system software provides advice for the user as to how to perform testing tasks.

The program helps the user select the proper testing parameters and provides the necessary information required to automatically execute the desired test. The Graphical User Interface helps minimize learning time and enables laboratory personnel to conduct more complex, but realistic, testing programs at substantially lower operating cost and with minimal operator error.

Summary results for individual test specimens can be generated in report format and files can be merged to produce a Mohr envelope plot for up to five specimens. Data acquired from all the software modules can be easily transferred to other programs like spreadsheets, databases, etc.