

# DIGITAL/PC CONTROLLED TRIAXIAL SYSTEM



## Features

### Load Frame:

Table top two pillar Load Frame with high quality machined columns with threading to facilitate movement of crosshead. It comes in capacities of 10, 30, 50 and 100 kN with infinitely variable speed from 0.00001 to 99.9999 mm/min which can be set using the membrane keypad and provision for mounting load cell, LVDT etc. It can accommodate universal type triaxial cell for 38, 50, 75, 100 and 150mm diameters ( depending on the capacity of the frame)

### Pressure Volume Controller

Cell and back pressure is applied by an integral microprocessor based control system with a large easy to read 240\*192 character LCD in English. Required cell/back pressure is applied by one click using the 20 buttons keypad. The cell/back pressure control system features automatic water filling and drain and measurement of volume change

### Software (fully automatic version)

- Computer-automated control of testing- not just data logging
- 16-bit Data acquisition
- With one computer, control multiple sets of triaxial testing systems
- Windows® software for test control and post-test processing
- Truly independent confining pressure and back pressure
- Comply with various geotechnical specifications (IS/BS/ASTM)
- B-value checking
- Isotropic consolidation test, including measurement of volume changes
- UU, CU and CD tests, including pore pressure measurement and volume change measurement down to 1mm<sup>3</sup>(0.001cc)
- Multiple stage triaxial test
- Automatic data processing/analysis

## DIGITAL/PC CONTROLLED TRIAXIAL SYSTEM



DIGITAL DISPLAY



TRIAXIAL CELLS



SAMPLE PREPARATION  
ACCESSORIES



MEMBRANE KEYPAD



TRANSDUCERS

### Specifications

Parameter	TTS 1/1A/1C	TTS 3/3A/3C	TTS 6/6A/6C	TTS 10/10A/10C
Specimen size up to ( dia x height) mm:	50 x 100	70x 140	100x 200	150 x 300
Axial loading range ( kN):	0-10	0-30	0-50	0-100
Axial Loading accuracy:	0.3%F.S	0.3%F.S	0.3%F.S	0.3%F.S
Axial Load Resolution (N):	1	1	1	1
Shear speed ( mm/min):	0.00001-99.99999	0.00001-99.99999	0.00001-99.99999	0.00001-99.99999
Confining pressure range ( MPa)	0-2	0-2	0-2	0-3
Confining pressure resolution ( Kpa):	1	1	1	1
Back pressure range ( Mpa)	0-2	0-2	0-2	0-3
Back pressure resolution ( Kpa):	1	1	1	1
Pore pressure range ( Mpa)	0-2	0-2	0-2	0-3
Pore pressure resolution ( Kpa):	1	1	1	1
Volume change capacity ( ml):	0-50	0-50	0-200	0-200
Volume change resolution ( ml):	0.001	0.001	0.001	0.001
Microprocessor Controlled:	Yes	Yes	Yes	Yes
Only LCD display:	Model 1A	Model 3A	Model 6A	Model 10A
PC data acquisition & LCD display:	Model 1C	Model 3C	Model 6C	Model 10C
Fully Automatic control:	Model 1	Model 3	Model 6	Model 10