

SK TRIAXIAL TESTING APPARATUS

Model No. DTC-100C

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FEATURE:

1. Triaxial Cell: Simple set up/ Disassembly by one-touch lever
2. Vertical Loading Unit: Loading frame with no restrictions at both sides and a wide working table makes useful space.
3. Ideal Driving System: Slight vibration with ball screw type mechanical jack & small DC motor.

**SK Triaxial Testing App.
Electric measuring type**



SK Triaxial Cell

SPECIFICATION

1. SK Triaxial Cell:

Simple set up/disassembly by one-touch lever with no tie rod

Specimen size: Dia. 35mm x 80mmH & Dia. 50mm x 100mmH

Option: Max. Dia. 70mm x 140mmH is available.

Confining pressure: Max. 1MPa (Normal operation: 800kPa), Vertical loading: Max. 5kN

With 2 kinds of specimen cap & pedestal (Drainage & Undrainage type)

2. Vertical Loading Unit & Air-Water Control System Unit

Vertical Loading Unit:

Single column type, Loading capacity: 5kN

Loading speed: 0.004 to 2.0mm/min. Step-less variable type

Quick return by manual handle, Electric type takes Electromagnetic clutch

Actual speed display by Digital indicator

Air-Water Control System Unit

Measuring of Confining pressure

Air-Water control system by precision air regulator via confining pressure tank & air-water control system of triaxial cell at direct



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Loading pressure: 0 to 1MPa (Normal operation: 800kPa)

Pressure indication: Bourdon tube type Pressure gauge, Dia.150mm, 1MPa, 100divisions

Measuring of Back pressure

Back pressure loading type by back pressure tank with precision air regulator & double tube type burette. Then, the regulator can load with keeping constant confining pressure by bias regulator.

Loading pressure: 0 to 1MPa (Normal operation: 800kPa)

Measuring of volume change (Drainage measuring): Double tube burette type: Max. pressure: 1MPa

Burette capacity: Standard 25ml, Minimum scale 0.1ml (Option: 50ml)

Making of De-aired water

De-aired water tank: Acrylic made, 5L, Vacuum tank: Acrylic made, Approx. 1L

Vacuum loading: Vacuum regulator -0.1MPa, Vacuum pressure gauge; Dia.100mm, -0.1MPa

3. Measuring Apparatus

3-1 Visual Measurement type

Vertical load: Proving ring, Capacity: Select one among 500N, 1kN, 2kN & 5kN

Vertical displacement: Dial gauge 30mm, 0.01mm

Volume change: Burette (Visual measurement) type, Capacity 25ml, 0.1ml

Electric measuring (Option)

1. Direct reading type by Strain gauge type differential pressure transducer & Digital indicator

2. Direct reading type by Pore water transducer, Strain gauge type pressure transducer (1MPa) & Digital indicator

3-2 Electric Transducers

Vertical load cell: Strain gauge type, Capacity: Select one among 500N, 1kN, 2kN and 5kN

Vertical displacement transducer: Dial gauge type 30mm, 0.01mm

Volume meter: Differential pressure transducer

Pore water pressure: Strain gauge type Pressure transducer (Capacity: 1MPa)

(Option): Lateral pressure gauge: Strain gauge type pressure transducer (Capacity:1MPa)

3-3 Data Acquisition apparatus: Data Logger TDS-303

4. OPTION

- 1) Cylindrical former for cohesive soil DP-24AB: Combined use of Dia.35mm & Dia.50mm
- 2) Miter box: Dia.35mm x 80mmH & Dia.50mm x 100mmH
- 3) Rubber membrane: Dia.35mm & Dia.50mm
- 4) Consolidation unit DTD-191 (Consisting of measuring of confining & back pressure loading & double tube type volume change apparatus)
- 5) SK triaxial cell: DTD-109AB
- 6) Electric vacuum pump TSW-20: Motor 100V AC, Single phase 0.2kw, Exhaust 20L/min.
- 7) Electric air compressor: Pressure open/close type, 0.78 to 0.97MPa