

Uniaxial Testing Systems (UCT Series)



SPECIFICATIONS

- 1,000 kN compression load capacity & 800 kN tension load capacity
- 100 mm stroke
- 400 mm distance between columns & 600 mm distance between platens
- Compression and Tension loading system with electro-hydraulic closed-loop digital servo-control
- Ideal for performing unconfined compression, bending, indirect tension, fracture, creep, and other material tests, Static and Dynamic loading capabilities
- Adjustable crosshead
- Accepts GCTS High Pressure triaxial cell & other testing components
- Economical “turn-key” systems built to customer specifications
- Other systems available with load capacities up to 4,500 kN (1,000 kips) and stiffness up to 5,000 kN/mm (28x10⁶ lbs/inch)

DESCRIPTION

The GCTS Uniaxial Testing Systems (UCT Series) are easy-to-use systems for the determination of the unconfined compressive strength of cylindrical specimens. The axial actuator is computer-controlled using our state-of-the-art SCON-1400 Wireless Servo Controller and Data Acquisition System and our 64-bit Windows-based software. The system is capable of performing static and dynamic closed-loop tests by controlling the load, deformation, stress, strain or any other measured or calculated parameter. All test measurements can easily be viewed and exported for rapid analysis of results.

On-specimen deformation instrumentation, triaxial cells, and other testing instrumentation can be provided.