ROCK TESTING MACHINE (Uniaxial / Triaxial)

Code : K001



- The Rock Uniaxial/Triaxial Tester is used for determining the compressive strength and deformation behavior of rock core specimens under uniaxial and triaxial loading conditions, essential for rock mechanics and geotechnical engineering studies.
- Featuring a servo-controlled, fully automatic hydraulic system, the apparatus ensures precise control of loading rates, enabling repeatable and reliable test results compliant with international standards.
- The system supports various specimen sizes and configurations, making it suitable for diverse rock types and testing requirements in both laboratory and field applications.
- High-capacity load frames and Hoek cell compatibility allow simulation of in-situ stress conditions, facilitating comprehensive analysis of rock strength and deformation under confining pressure.
- Interchangeable spacer discs of varying heights enable flexible setup for different specimen dimensions, enhancing the tester's adaptability across multiple test scenarios.
- The tester can be optionally configured with strain gauges and a high-precision datalogger (purchased separately), providing advanced measurement capabilities for axial and lateral strains, modulus of

elasticity, and Poisson's ratio, in accordance with standard methods.

STANDARDS

ASTM D2664 • ASTM D2938 • ASTM D3148 • ASTM D5407 • ASTM D7012 • EN 14580 • EN 1926 • AASHTO T226

TECHNICAL SPECIFICATIONS

- Control System: Servo-controlled, fully automatic
- Load Rate: Adjustable between 0.8 – 3.2 kN/sec
- Spacer Discs: Ø 200 mm with heights of 100 / 80 / 60 / 40 / 20 mm
- Optional Strain Measurement: Compatible with strain gauges and datalogger for elasticity modulus evaluation (optional purchase)
- Power Supply: 220 – 240 V / 50 – 60 Hz

ORDERING INFORMATION

Item Name	Item Code
PRESSURE UNIT for HOEK CELL - 250 bar	K001P001H
HOEK CELL (NQ & HQ)	K001P002H
MEMBRANE, NQ - Ø 47.6 mm (For Hoek Cell)	K001P003H
MEMBRANE, HQ - Ø 63.5 mm (For Hoek Cell)	K001P004H
MEMBRANE, NX - Ø 54.74 mm (For Hoek Cell)	K001P005H
MEMBRANE, BX - Ø 42.04 mm (For Hoek Cell)	K001P006H
SPLITTING TENSILE STRENGTH APPARATUS (for Intact Rock Core Specimens)	K001P007H
HOEK CELL (NQ & HQ)	K001P008H
ROCK COMPRESSION TEST MACHINE - 600 kN	K001V06XU

ROCK COMPRESSION TEST MACHINE - 1000 kN	K001V10XU