UTEST
MATERIAL TESTING EQUIPMENT

ROCK MECHANICS

Strength and Deformability Tests

UNIAXIAL & TRIAXIAL TESTS

Product Code

UTR-0450.PVPR	Automatic Pressure Unit for Lateral Pressure in Hoek Triaxial Cell
UTR-0455	Hoek Triaxial Cell BX, Ø 42,04 mm dia.
UTR-0457	Hoek Triaxial Cell NX, Ø 54,74 mm dia.
UTR-0460	Hoek Triaxial Cell HQ, Ø 63,5 mm dia.
UTR-0400	Compression Jig Assembly for Rock Core Specimens, Ø54,74 mm to Ø63,5 mm
UTC-0210	High Precision Pressure Transducer and Electronics

Models for 220-240V 50-60 Hz, 1ph.	UTR-0450.PVPR
Models for 110-120V 60 Hz, 1ph.	UTR-0450.PVPR-N

Standards

EN 1926, 14580; ASTM D2664, D2938, D3148, D5407, D7012, ISRM

The UTR-0450.PVPR Automatic Pressure Unit is used to apply lateral pressure in the Hoek Cell during the triaxial testing of rock specimens.

The power pack is equipped with a proportional valve to provide a sensitive control of the loading rate and to maintain a constant confining pressure to within 0.1 bar.

Pressure is controlled by using the PID closed loop controlled electronics.

The user can define the set lateral pressure and display the lateral pressure through the U-Touch PRO Control Unit.

Any capacity which depends of rigidity and sizes of rock specimens to be tested, EN or ASTM automatic compression testing machines can be used for appliying vertical load required for the triaxial and uniaxial tests.

As option for weaker rock specimens, the compression machines can be upgraded with option UTC-0210 special calibration procedure to have Class 1 starting from 1% of the full range of the capacity.

To see the details of Hoek Triaxial Cells required for triaxial testing of rock specimens, please look at the page of Rock Triaxial Test Accessories.

SAFETY FEATURES of UTR-0450.PVPR

- Maximum pressure valves to avoid machine overloading
- Emergency stop button
- Software controlled maximum load valve

Specifications

Max. Working Pressure	420 bar
Min. Controllable Pressure	3 bar
Pressure Accuracy	0.1 bar
Dimensions	300x500x500 mm
Weight (approx.)	22 kg
Power	750 W

UTC-5727.FPR and UTR-0460.PVPR

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