Your supplier of high pressure laboratory instruments

MECATEST ROCK UNIAXIAL AND TRIAXIAL COMPRESSION TESTER

ASTM D7012, D7070, D2664, D3967

Description

The servo-controlled MECATEST represents a conventional rock compression testing system with the capability to conduct both uniaxial and triaxial compression tests on large specimens. These tests enable users to derive valuable information such as strength and elastic properties, shear strength at varying confining pressures, angle of shearing resistance, cohesion, modulus of elasticity, Poisson's ratio, and tensile strength. The system's configuration options include uniaxial compression platens, axial and circumferential deformation sensors, a triaxial cell, acoustic velocity measurements, permeability assessments, polyaxial fixtures, and indirect tension Brazilian fixtures.

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Specifications

Standard	ASTM D7012, D7070, D2664, D3967
Compression load capacity	3000 kN
Maximum confining pressure	70 MPa
Temperature	ambient
Specimen diameter	from 54.7-mm up to 160-mm
Specimen length	Twice the diameter
Wetted parts	Stainless steel
Power supply	110-220VAC, 50/60Hz

Benefits

Multi-purpose machine capable of a wide range of uniaxial, acoustic and triaxial compression tests
Automated tests with pre-programed stress and strain path
Delivers unparalleled accuracy and reliability
Heavy-duty, stiff, noise-free compression frame

Video presentation: