

# Tri-Axial Core Fracturing Test Unit

Precision meets reliability in every fracture



## Specification

- Triaxial Pressure/force (Confining, Axial and Lateral )
- Core Holder MOC : SS 316L
- Customizable to fit core samples of various sizes Up to 6 Inches
- Air Driven Gas Booster Pump working Up to 15,000 psi
- Working Pressure Range: Up to 10,000 psi
- Water bath temperature Range: Up to 80 °C
- Hydraulic pumps working pressure Up to 10,000 psi (Servo operated Optional)
- Modular Design
- Consist of Vacuum Pump, Air Compressor
- Safety : Pressure Safety Valve, Overflow Point, Auto Pressure cutoff system & Air compressor

## Learning Outcome

- Understand the core testing process.
- Comprehend the principles of core fracturing using a triaxial system.
- Analyze the effects of supercritical CO<sub>2</sub> (SC-CO<sub>2</sub>) on rock fracture behavior.
- Learn to control and adjust pressure in a triaxial core system.
- Assess the impact of temperature variations on core fracturing.
- Utilize acoustic emission sensors to detect and analyze fracture events.
- Understand the significance of pressure variations in fracturing.
- Collect and analyze experimental data.

## Application

- Academic and industrial research for geological studies and core testing.
- Applied in petroleum engineering for reservoir characterization and hydraulic fracturing.
- Geothermal energy, seismology & environment engineering research
- Integral to rock mechanics for fracture analysis and strength testing.



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