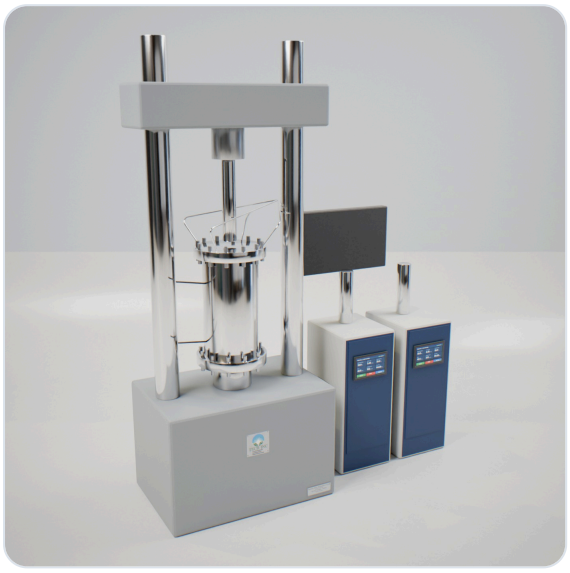
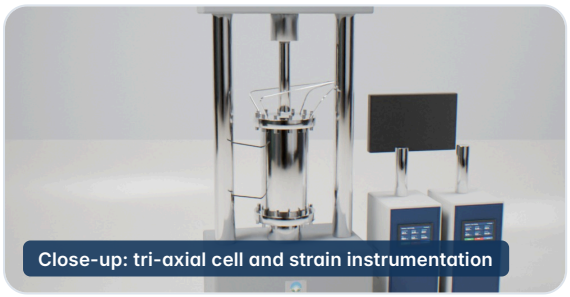
PRODUCT DATASHEET

Tri-Axial Rock-Mechanics System

Tri-axial cells, pressure control and data for rock strength and elastic properties

Product page





Close-up: tri-axial cell and strain instrumentation

OVERVIEW

The Tech Inc. Tri-Axial Rock-Mechanics System measures the strength and elastic properties of rock under reservoir stresses for wellbore-stability, sand-production and fracturing studies. The core sits in a tri-axial cell under confining pressure and pore pressure; a load frame applies axial load while strain gauges or LVDTs measure deformation, and ultrasonic transducers can measure velocities at each stress.

TYPICAL DESIGN DATA

Confining pressure	To about 700 or 1,000 bar
Pore pressure	To about 700 bar
Temperature	To about 150 °C
Codes and standards	Test practice to ISRM suggested methods and ASTM D7012; cells designed with a safety factor
Core size	1 to 2 inch diameter
Measurement	Axial and radial strain, load, pressures; ultrasonic velocities optional
Frame	Servo-hydraulic load frame from a specialist maker

MODELS AND CAPACITIES

- **TI-TRX-700** – confining to about 700 bar, 1.5 inch cores
- **TI-TRX-1000** – confining to about 1,000 bar
- **TI-TRX-US** – with ultrasonic platens
- **TI-TRX-PL** – point-load tester

Indicative confining pressure.

ORDERING CODE

Example **TI-TRX-700-US**: **700** confining pressure, bar; **US** options: US ultrasonic, PL point load, N none.

SCOPE OF SUPPLY

Included: factory acceptance test with a written report; drawings for approval, material certificates and manual. **Options:** ultrasonic platens; point-load tester; high-temperature cell; annual service.

KEY ADVANTAGES

- **Reservoir stresses** – confining and pore pressure
- **Cost-effective** – specialist frame, our cell and controls
- **Full picture** – strength, moduli and velocities
- **Flexible** – several core sizes

Designed and built by Tech Inc. · **Part of the Davey Group since 1990**

Offices: Chennai · Toronto · Tallinn · Al Khobar

mail@techincresearch.com · +1 (289) 622-1032 · www.techincresearch.com

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