

# Semi-Automated Helium Porosimeter with Confining Pressure



**PERM** Inc  
INSTRUMENTS

# SEMI-AUTO HELIUM POROSIMETER

## Description:

This is an upgraded version of the automated porosimeter that allows the user to apply a confining pressure on the core plug. This unit can measure rock compressibility. A high-pressure core holder will provide the confining stress on the core plug. The confining pressure is applied using a hand-operated hydraulic pump up to 5,000 psi.

## Specifications:

- ◆ Core holder diameter: 1.0 or 1.5 inches
- ◆ Core holder length: up to 4.0 inches
- ◆ Pressure rating: up to 500 psi
- ◆ Confining pressure: up to 5,000 psi
- ◆ Gas type: Helium
- ◆ Semi-automated system with a digital pressure display
- ◆ Porosity range: 1.0 to 60%
- ◆ Accurate pressure measurement with 0.1% FS
- ◆ Chamber material: Stainless steel
- ◆ Adjustable core plug size
- ◆ Computerized data acquisition and control

## Benefits:

- ◆ Adjust the inner space of the core holder
- ◆ Applying the confining pressure to investigate the effect of overburden on porosity measurements
- ◆ Easy and simple mount inside the chamber using a unique design

## Possible Upgrades:

- ◆ Increase size of the chamber in order to use a whole core plug
- ◆ Add an automated controlling confining pressure system to make the unit fully automated
- ◆ Increase the confining pressure up to 10,000 psi

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