The only HPHT dynamic linear swell meter currently made in the USA
The M4600 HP/HT Dynamic Linear Swell Meter (LSM) is the only LSM in the USA capable of high-pressure, high-temperature dynamic test operations.

The Grace Instrument M4600 HPHT Linear Swell Meter is an automated, dual core, high pressure and high temperature linear swell meter (up to 2,000 psi and 500 °F). It is engineered to measure the volumetric expansion (or contraction) of a core/wafer sample under simulated downhole conditions while saturating it with a drilling fluid sample.

Engineered to achieve highly repeatable test results
The patented design of the M4600 hardware allows core samples to expand in only one direction, making test results extremely repeatable.

The Grace Instrument M4600 HPHT Linear Swell Meter provides the most repeatable test results on the market today. The patented design allows core samples to expand in only one direction, making test results very repeatable.

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**Measurement specifications:**
- Sample Size: 75 mL
- Pressure Range: Atm to 2,000 psi
- Core/Wafer Diameter: 1.00 inch
- Core/Wafer Length: 0.4 to 1.00 inch
- Maximum Linear Displacement: ±0.6 inches
- Linear Resolution: 0.1% of full scale range
- Temperature: Ambient to 500 °F

**Mechanical specifications:**
- Height: 21” tall
- Width: 20” wide
- Depth: 14” deep
- Construction: 304/316 stainless steel wetted material

**Utility requirements:**
- Electrical Supply Voltage: 120 VAC or 240 VAC
- Line Frequency: 50 to 60 Hz
- Power Consumption: 500 VA
- Pressure Supply: Nitrogen: Atm - 3,000 psi

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The M4600 is engineered for laboratory HPHT testing of solids and fluids interactions

- PC interface
- Digital data
- Easy operation
- Safe operation
- Test flexibility
- Repeatability
- Low maintenance
- Automatic data collection

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Core/Wafer Compactor
18” tall x 14” wide x 8” deep