



- ☒ Dynamic Triaxial
- ☒ Resonant Column
- ☒ Torsional Shear
- ☒ Resilient Modulus
- ☒ Liquefaction
- ☒ P&S Wave Velocities
- ☒ Hollow Cylinder
- ☒ UU, CU, CD Triaxial

UNIVERSAL SOIL DYNAMICS SYSTEM

Innovative Solution

The SRC-100 is a groundbreaking Universal Soil Dynamics Testing System, designed to address the challenges faced in dynamic soil testing. This innovative system simplifies the process of determining dynamic soil properties, crucial for constructing structures that are resilient to dynamic loads, such as earthquakes and machinery vibrations.

- Automatic Multi-Stage Testing
- Precise laser to measure angular deformations
- Automated cell close/lift assembly
- Quick setup – High productivity
- Modular Design – Easy to use
- Lowest life-cycle cost – Best value



SEE IT IN ACTION



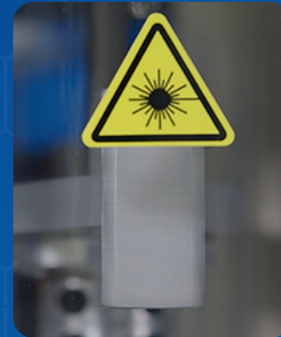
COMPACT SPECIMEN



SLIDE SPECIMEN IN &
REMOVE MOLD



CLOSE CELL



PERFORM TEST

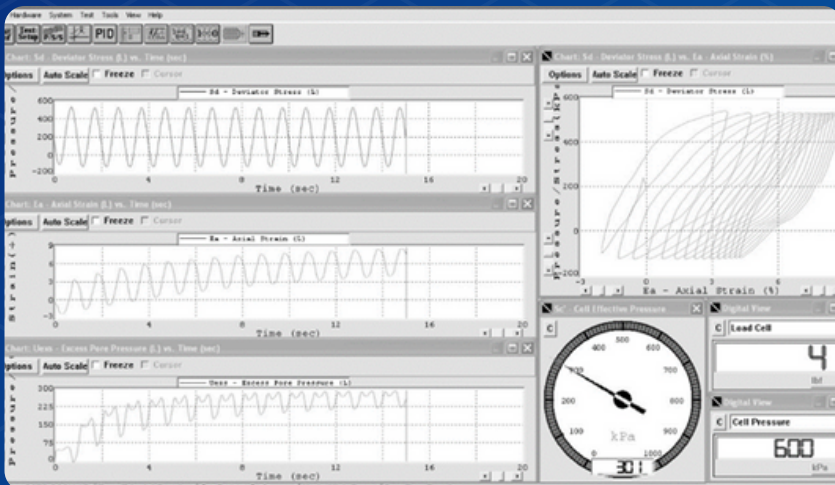


OPEN CELL AND
REMOVE SPECIMEN

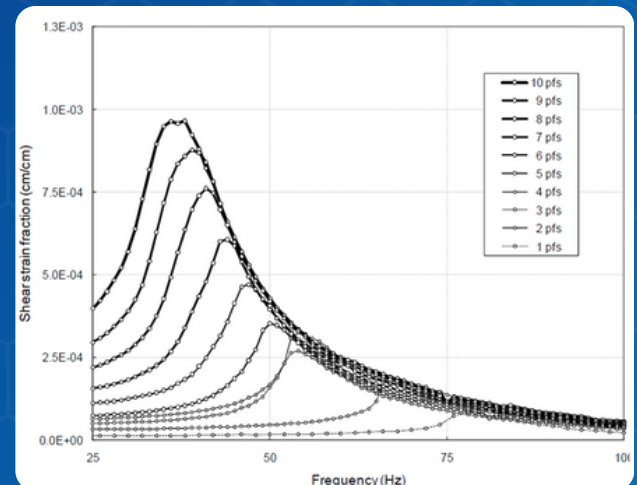
QUICK SPECIMEN SETUP & TEST

The SRC-100 isn't just a soil dynamics testing system; it's a gateway to a universe of testing possibilities. Designed with modularity at its core, the SRC-100 offers unparalleled flexibility to meet the evolving needs of geotechnical laboratories. Whether you're starting with a dynamic triaxial system or looking to expand your testing capabilities, the SRC-100 grows with you.

- **Start Smart:** Begin with a dynamic triaxial system, equipped with everything you need to perform advanced soil testing. It's the perfect entry point into the world of soil dynamics.
- **Expand Effortlessly:** When you're ready, elevate your system to include resonant column testing, resilient modulus evaluation, and more. Each module seamlessly integrates with your existing setup, ensuring a smooth transition and expanded capabilities.
- **Future-Proof Testing:** Our commitment to innovation means you'll have access to the latest modules as they're developed. The SRC-100 is designed to adapt, ensuring you're always at the forefront of geotechnical testing.



Cyclic Triaxial



Resonant Column

AUTOMATED ACQUISITION OF FULL MATERIAL CHARACTERIZATION

GENERAL SPECIFICATIONS

Servo controlled axes:

- 3 (torsional stress, axial stress/strain cell pressure)

Analog Inputs:

- 8

Maximum RC/TS Frequency:

- 500 Hz

Maximum Specimen Diameter:

- 70 mm

Maximum Cyclic Triaxial Frequency:

- 5 Hz

Shear Strain Resolution:

- 2×10^{-7} ($2 \times 10^{-5}\%$)

Standard Sensors:

- Axial Load
- Axial Displacement
- Cell Pressure
- Pore Pressure
- Volume Change

Peak Torque Capacity:

- 2.3 N•m

Axial Load Capacity:

- 10 kN (2.5 kN with torque motor installed)

Maximum Cell Pressure:

- 1,000 kPa

Maximum Shear Strain:

- $\pm 1\%$

Dimensions:

- 81 x 59 x 112 cm (W x D x H)

Weight:

- 160 kg (353 lbs)

INSTALLATION REQUIREMENTS

Power:

- 220 VAC, 50/60 Hz, 7 A
- (Optional 110 VAC, 60 Hz, 14 A)

Water:

- Clean or Distilled (6 mm or 1/4" nylon tubing)

Compressed Air:

- 1,000 kPa Clean Dry Air (12 mm or 1/2" nylon tubing)

AVAILABLE MODULES

Static/Cyclic Triaxial

- UU, CU, CD
- Stress/Strain Path
- Liquefaction
- Cyclic Strength

Resonant Column/Torsional

Resilient Modulus

Bender Elements

Hollow Cylinder (HCA)

Back Pressure Saturation

Unsaturated Soil Testing

SHIPPING

Dimensions:

- 101 x 76 x 140 cm (40 x 30 x 55 in) (W x D x H)

Weight:

- 220 kg (485 lbs)

Learn More



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TESTING SYSTEMS

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