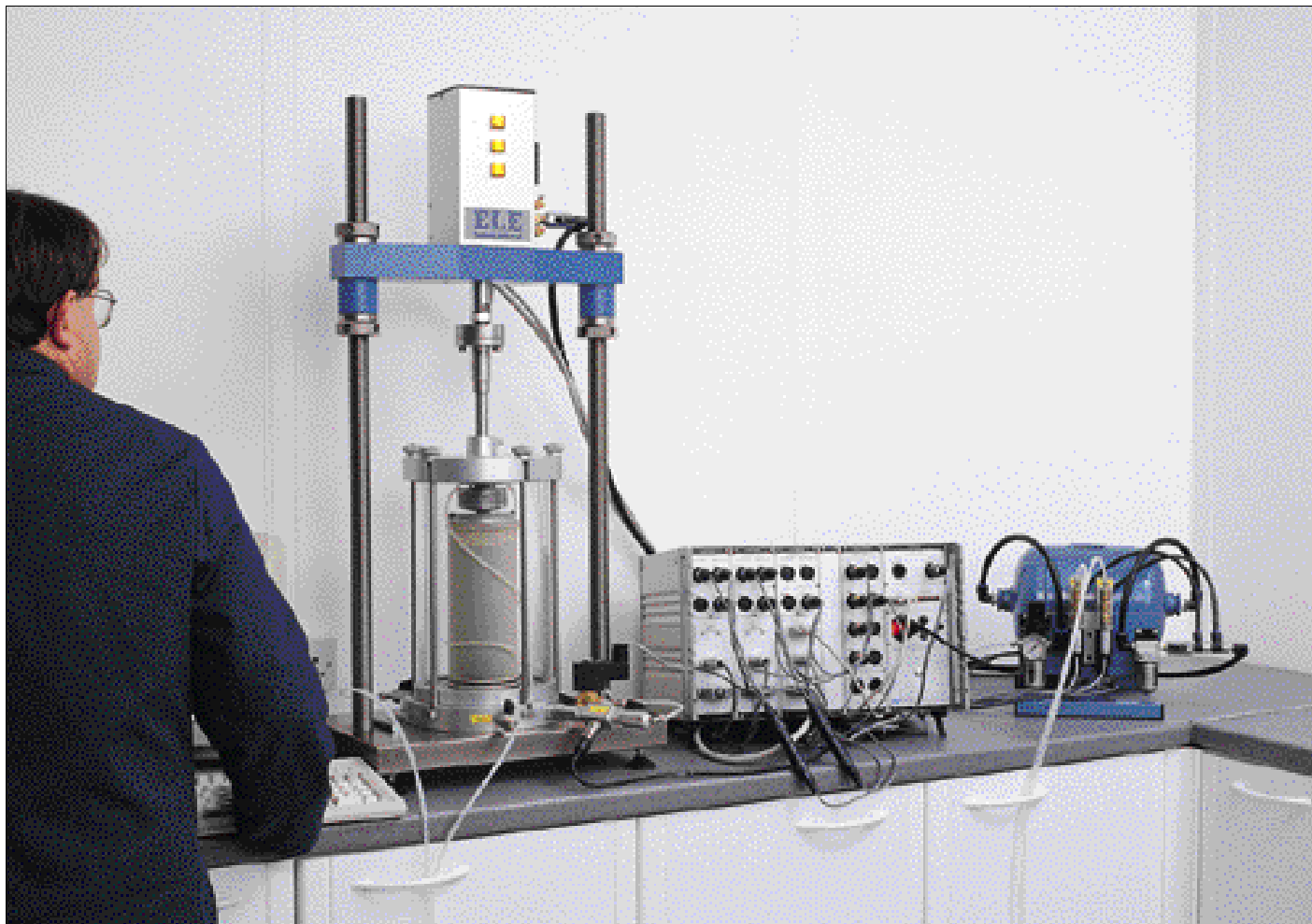




Cyclic Triaxial Test Set

ASTM D-3999.

- **A high quality load frame with servo-controlled, pneumatic actuator coupled with a control and Data Acquisition System (CDAS).**
- **Triaxial Cell with accessories for 100 mm diameter samples.**
- **ELE Cyclic Triaxial Software.**
- **Complete set of electronic measurement transducers.**

Simulation of conditions produced by earthquakes, ocean waves and blasting is now possible with the Cyclic Triaxial Test System which applies a constant cyclic load to soil specimens. The system consists of a loading frame with a servo-controlled pneumatic actuator, a triaxial test cell, triaxial control panel, and a control and data acquisition system.

The Control and Data Acquisition System (CDAS) is linked to a personal computer to provide all critical control, timing and data acquisition functions for the testing frame and transducers. The operator uses digital control of the pneumatic servo-valve to apply the requested loading rate or waveform. The system can generate a variety of desired loading wave shapes.

The software allows the operator to enter the initial specimen measurements, specimen conditions after consolidation, load cycle width, and separate values for the peak load in compression and extension. During testing, load, displacement, pore water pressure and chamber pressure transducers are used to monitor the specimens behavior during each cycle. Calculations are completed and displayed on the screen.

Ordering Information

Note: Computer hardware and peripherals required for system operation; not included. Contact factory for details.

Set Includes:	1	Cyclic Triaxial Control System with Data Acquisition, load frame and software.
	1	Submersible Load Transducer/Piston Assembly, 5 kN.
	1	Axial Strain Transducer, +/- 25 mm travel.
	3	Pressure Transducers, 1,000 kPa.
	1	Electronic Volume Change Unit, 80 cc.
	1	Triaxial Cell.
	1	100 mm Base Pedestal.
	1	100 mm Specimen Cap.
	1	Universal Pump and Pressure Indicating Panel.
	2	Bladder Type Air/Water Pressure Assemblies.
	1	De-aired Water Apparatus.
	2	Nylon Opaque Tubing, 30' (9.1 m) roll.

EI2050/02.	110-120vAC, 50/60Hz, 1ø.
EI2050/01.	220-240vAC, 50/60Hz, 1ø.

Special Note:

It is essential that the system be operated using a clean and dry compressed air source. Contact factory for details.

Cyclic Triaxial Test System

ASTM D-3999.

- **Digital closed-loop control.**
- **Flexible software management.**
- **Force, strain or displacement control.**
- **Frequencies up to 70 Hz.**
- **Standard and user defined waveshapes.**

The ELE Cyclic Triaxial Closed-loop Control System is a versatile servo-controlled pneumatic testing system that can simulate various loading conditions generated by waves, wind or earthquakes.

The system consists of a high quality load frame with a servo-controlled pneumatic actuator assembly and a control and data acquisition system (CDAS).

The ELE Cyclic Triaxial Software enables saturation, consolidation, cyclic and shear stages to be performed.

Specifications

Load Frame:

Capacity.	10 kN.
Actuator.	Servo-pneumatic; 5 kN capacity double-acting 30 mm stroke up to 70 Hz frequency.
Pneumatic System.	Requires 800 kPa (116 psi) air supply.
Dimensions.	30" w. x 22" d. x 44" h. (762 x 559 x 1,118 mm).

Control and Data Acquisition System:

Acquisition.	8 analog input channels; 1000/sec sampling rate.
Control.	High speed 3-axis digital servo-control.
Software.	Saturation and Consolidation BS-1377. Modulus of Damping ASTM D-3999. Shear. User-defined tests.

Ordering Information

Note: Computer hardware and peripherals required for system operation; not included.

EI25-8700/02.	110-120vAC, 50/60Hz, 1ø.
EI25-8700/01.	220-240vAC, 50/60Hz, 1ø.
EI25-8700/10.	5 kN Submersible Load Cell.
EI25-8700/20.	+/- 25 mm Displacement Transducer.
EI25-8700/30.	80 cc Volume Change Transducer.
EI25-8700/40.	1,000 kPa Pressure Transducer.

Accessories

EI25-4157.	100 mm Triaxial Cell.
EI25-4186.	100 mm Base Pedestal.
EI25-7590.	100 mm Specimen Cap.
EI25-8700/50.	100 mm Triaxial Cell. Cell base modified to accept on sample transducer leads.
EI25-8700/60.	Connection Kit. For rigid coupling for specimen cap to actuator, 100 mm.
EI25-8730.	Radial Strain Transducer. With in-line conditioning module.
EI25-8735.	Axial Strain Transducers. With in-line conditioning module. Set of 2.
EI25-1833/02.	De-aired Water Apparatus. 110-120vAC, 50/60Hz, 1ø.
EI25-1833/01.	De-aired Water Apparatus. 220-240vAC, 50/60Hz, 1ø.
EI26-1746.	Bladder-Type Air/Water Pressure Assembly.
EI26-1880.	Universal Pump and Pressure Indicating Panel.

Special Note:

It is essential that the system be operated using a clean and dry compressed air source meeting the above specifications.

