ProLab® PLMT-ST1 Series electromechanical Single-Axis Bench-Scale Shake Table is a mid-size, open architecture, single-axis simulator ideal for teaching and doing research in structural dynamics, earthquake engineering, and other topics related to structural, earthquake, and civil engineering. Users can apply sine waves, chirp signals and scaled earthquakes, such as the Northridge, Kobe, and El-Centro supplied, to study their effects on buildings, bridges, and various materials. Additional earthquake profiles can be downloaded from the PEER Ground Motion Database and scaled down for replaying on the Shake Table II. By combining two Shake Table II systems, users can perform bi-directional shaking experiments, or work with higher payloads.

ProLab Shake Table simulates earthquakes using real records, as well as operates waveforms such as sine, triangle etc. or any user defined acceleration or displacement profile. The system is fully controlled via computer software, which is included in the package. It is commonly used in Civil Engineering departments. It can also be used for structural mechanics, earthquake, soil and geological engineering tests and calibrating accelerometers and seismic instruments.
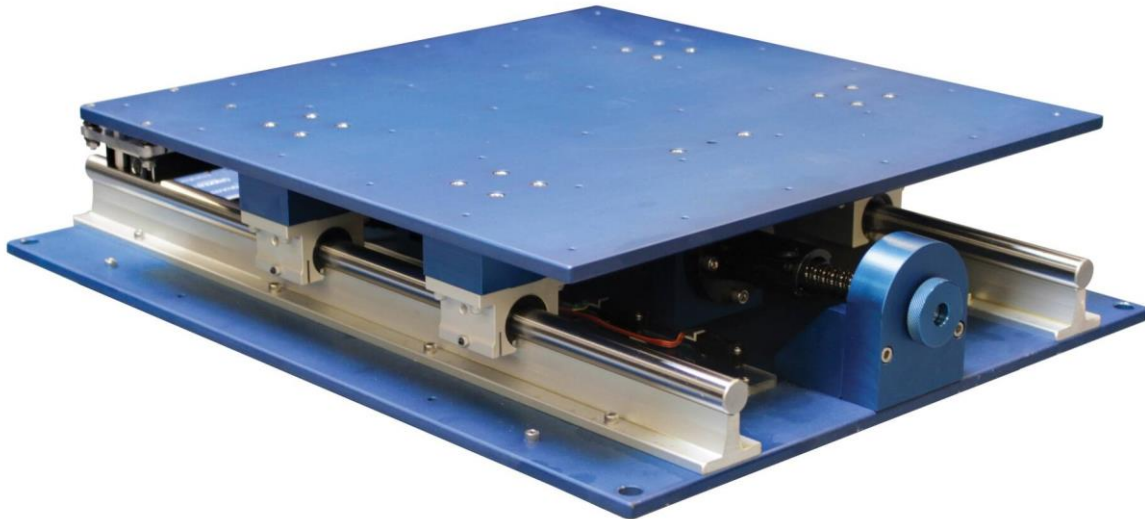
o   Standard uniaxial and biaxial options are available.
o   Custom designs are possible for more degree of freedom needs.

System:	Servo Electromechanical system with closed loop control.
Degree of freedom:	Single
Table dimensions:	500 x 500 mm
Operational bandwidth:	10Hz *Contact us for other requirements

- Automatic sensor recognition through intelligent sensor plug SGS
- Universal digital IO interface, connection for 8 digital inputs and 8 digital outputs, 24V DC
- Machine control, control output analog ± 10 V or various digital interfaces
- Connection for display / operating unit Remote Machine Control RMCi with emergency stop option
- Connection for incremental digital sensors, e.g. for position measurement
- iSYNC interface for multi-axis applications. Connection of several EDCi.
- Analog input amplifier (e.g. for load cell) with DC supply with a resolution of 20,000,000 steps
- '+/- 10V control output
- Ethernet RJ45, communication with PC. 10/100Mbit
- USB 2.0, communication with PC
- Serial interface for external electronics (optional)

Universal Simulation Software:

Universal Simulation Software is the testing industry's most powerful and advanced testing software. Its intuitive workflows are designed to simplify operator training, increase testing efficiency, and minimize safety hazards. User can Configure unlimited Live Displays to show force, displacement, time, and results to provide users with immediate feedback on current test status. Graphs, most typically displaying force vs. displacement
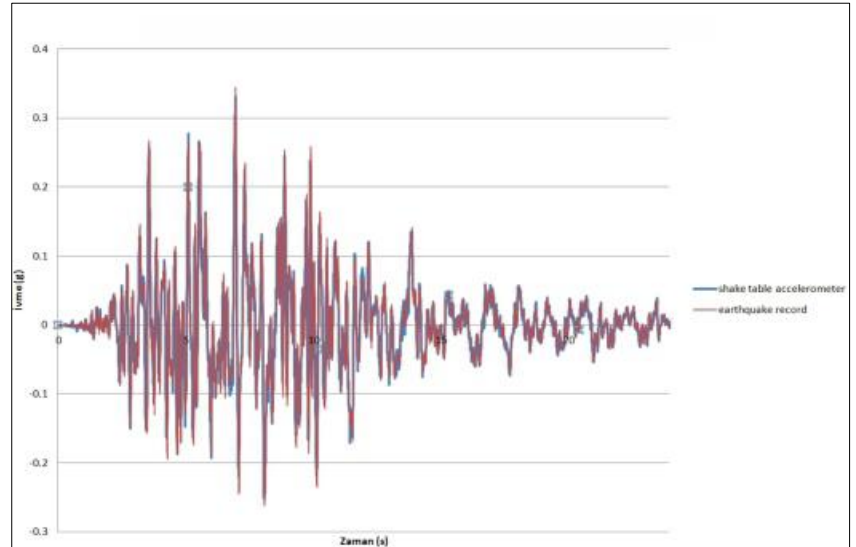
data or stress vs. strain data, can easily be viewed in more detail by pinching to zoom. Multiple graphs can be displayed in the workspace, including control charts in a completely customizable layout. Create customized report templates that ensure a professional and consistent style for reporting test results. Reports can be generated, printed, and emailed with the press of a button. Report format options include CSV and PDF.