TDG-SHAKETABLE BIAXIAL

DESKTOP SERVO ELECTRO MECHANICAL SHAKE TABLE

TDG- SHAKETABLE BIAXIAL™ can simulate earthquakes using real records. It is also possible to operate it with waveforms such as sine and triangle. The system is fully controlled via computer software. EasyTest Shaketable software is offered along with the TDG- SHAKETABLE BIAXIAL™. The system can simultaneously operate both of its axes with the any given waveform or earthquake profile. It is commonly used in Civil, Structural and Earthquake Engineering. It can be used for soil and geological engineering tests and calibrating accelerometers and seismic instruments.
With its cutting edge technology and advantageous price, it attracts high level universities and research laboratories.

"DEVELOPED 100% IN TDG LABORATORIES & PATENTED"

FEATURES

- Highest Control Resolution with Servo Motor
- Closed Loop PID Control
- Up to 100 kgf payload (@ ±1 g)
- 75X75 cm Upper Table
- Up to 3g (No-Load)
- ±100 mm Stroke in both of the axes.
- Operational Frequency up to 30 Hz
- High precision linear guideway with low friction.
- Earthquake Simulation (Arbitrary User-Defined Waveforms)
- Standard Waveforms - Sine, Triangle, Etc
- Easy Setup, Plug & Play
- High Industrial Quality, Virtually Maintenance Free

FIELDS OF APPLICATION

- LABORATORIES (Civil Engineering)
- EARTHQUAKE SIMULATION
- EDUCATION (Graduate & Undergraduate)
- MODE SHAPES (with Model)
- SMALL SCALE TESTS (Soil, Geophysics, Mechanics, Manufacturing)
- CALIBRATION (Accelerometers)
- CONTESTS / COMPETITIONS (EQ Resistant Design)

• COMPACT DESIGN

• INTEGRATED LIMIT SWITCH FOR INCREASED SAFETY

• AUTOMATIC CENTERING / HOME POSITIONING

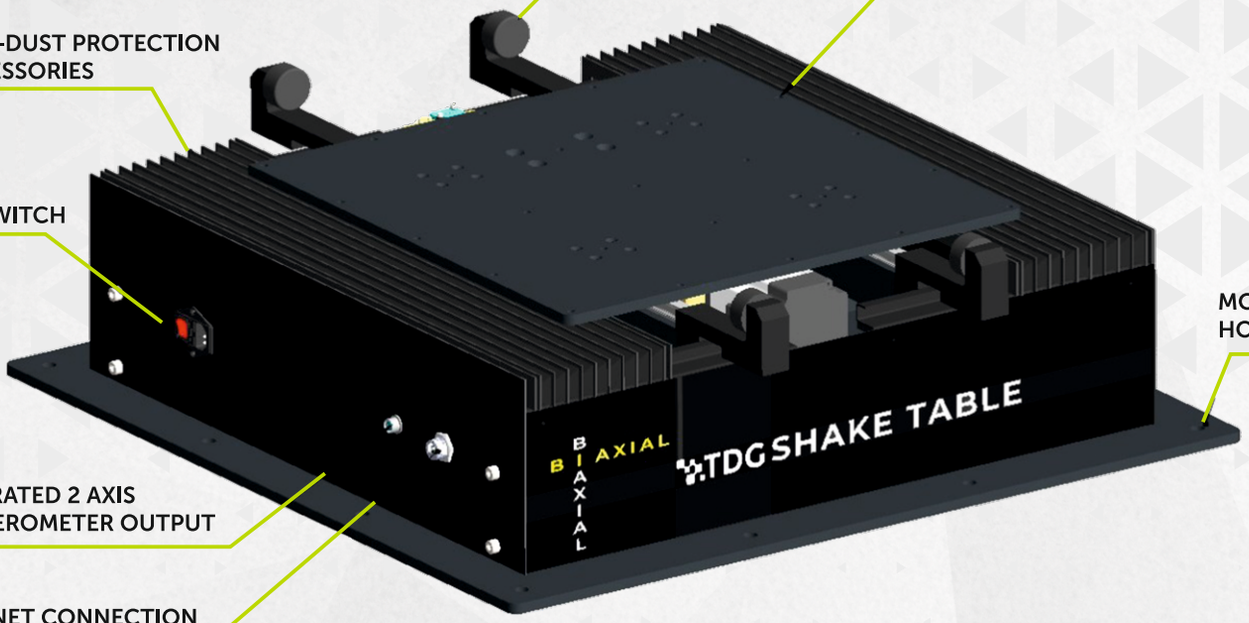
SUPER LOW-FRICTION PRECISION LINEAR GUIDES

RUBBER TIPPED MECHANICAL STOPPER

MOUNTING HOLES GRID ON THE UPPER TABLE

ANTI-DUST PROTECTION ACCESSORIES

POWER SWITCH

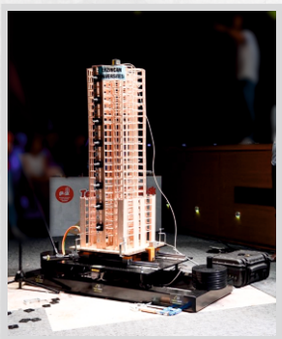


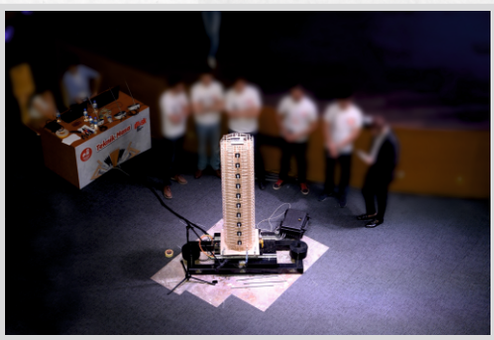
MOUNTING HOLES

INTEGRATED 2 AXIS ACCELEROMETER OUTPUT

ETHERNET CONNECTION

* Images shown are for reference only.
Actual product may vary.





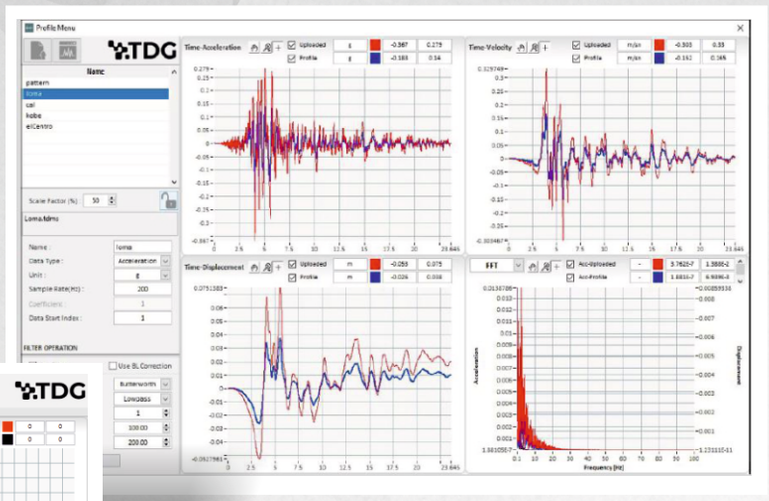
DESIGNED & MANUFACTURED IN TDG LAB 2000

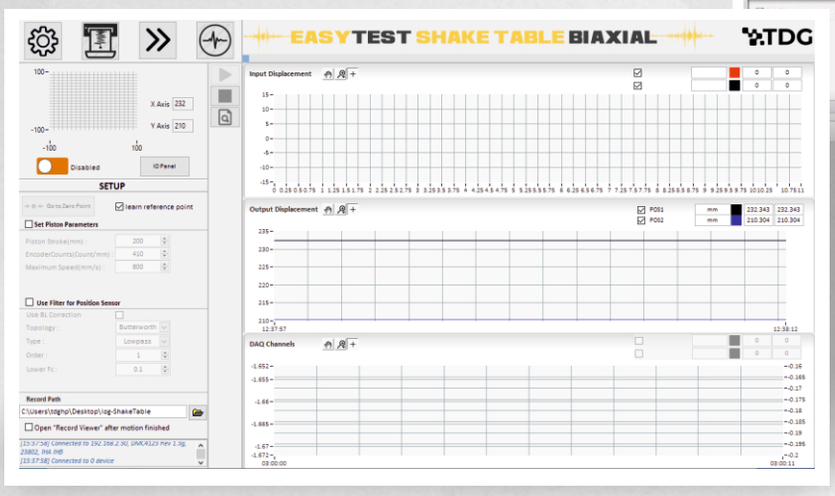
CHOICE OF DASK
(NATURAL DISASTER INSURANCE INSTITUTE) SINCE 2014

TDG-SHAKETABLE is used as the earthquake simulator, together with TESTBOX2010 digitizer, SENSEBOX7001 accelerometer in "Earthquake Resistant Building Design Competition" organized by DASK, since it was first arranged at year 2014.

EASYTEST SHAKE TABLE BIAXIAL

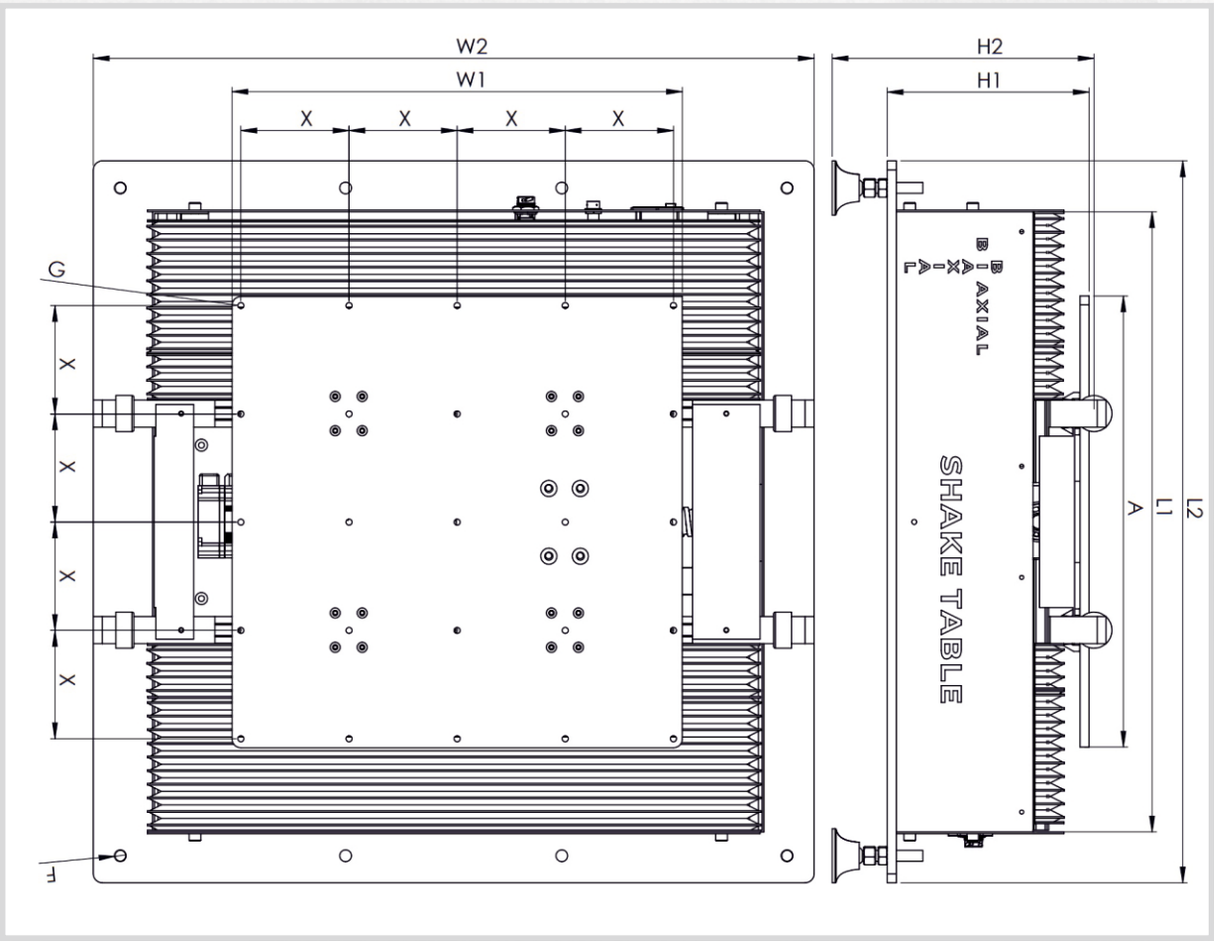
DAQ Support, Calibration, Filtering, Record
User-friendly Software
Uploading Real Earthquake Data
Automated Data-logging
Amplitude,Frequency Sweep,White Noise
Unlimited Profile Length,Continious Operation





Real-time Monitoring&Detailed Analysis
Sine&Triangle,
Sawtooth,Arbitrary Waveforms
Time Series,FFT, and Response Spectra Graphs
Save/Load Profile and Motion Parameters

Design of TDG SHAKE TABLE BIAXIAL



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Technical Specifications

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Test Capacity

Degree of Freedom	Double
Movement Direction	Horizontal
Table Dimension	750mmx750mm
Payload Capacity	100kg@1g(Each Axis)
Velocity	650 mm/s
Stroke	±100mm
Frequency	30 Hz
Position Precision	0.001 mm

Physical&Environmental

Overall Dimensions	800mmx 800mm x 250mm
Weight	80 Kg
Operating Temperature	0-50°C

Power&Electrical

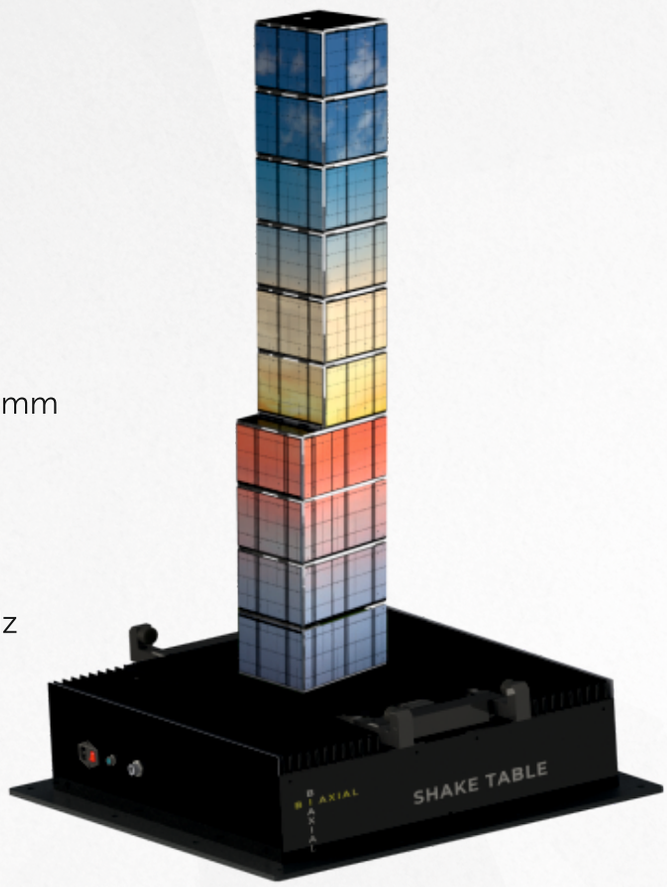
Power Supply	1 Phase, 220 V AC, 50 Hz
Nominal Power Consumption	Approx. 2.6 kVA
Recommended Circuit Breaker Rating	30 A
Pc Connection	Ethernet

Certification

CE	Valid for all versions LVD (2014/35/EU) EMC(2014/30/EU)
Caliibration	TDG Calibration Lab Factory Calibration Certificate

Software

EasyTest Shake Table BIAXIAL	Developed by TDG Included in the package



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Scan to see the action!

TDG
structural health monitoring

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