

SHAKE TABLE BIAXIAL IRON CORE is a linear-drive dual-axis earthquake simulator that allows users to test the stability and integrity of structures, equipment, and products under simulated seismic conditions. This unique product is capable of generating waves at speeds of up to 1000 mm/s.

In addition to its impressive speed and accuracy, SHAKE TABLE BIAXIAL IRON CORE also comes with EASYTEST SHAKE TABLE, user-friendly software that allows users to easily control and monitor the simulator. This software makes it easy to set up and run tests, as well as analyze the results in real time. SHAKE TABLE BIAXIAL IRON CORE is ideal for testing the resilience and performance of structures, materials, and systems under simulated earthquake conditions. It is commonly used in the construction, engineering, and research industries for evaluating the performance of buildings, bridges, roads, pipelines, and other critical infrastructure during an earthquake.

One of the unique features of SHAKE TABLE BIAXIAL IRON CORE is its iron core linear motor, which provides a high level of precision and control over the simulated motion. This allows users to replicate a wide range of earthquake scenarios and test a variety of different materials and structures under different conditions. In addition to its powerful performance capabilities, the shake table is also designed for easy operation and maintenance. It features a user-friendly control panel and a durable and reliable construction, ensuring reliable and consistent operation over long periods.

FEATURES

- Highest Control Resolution with Linear Motor
- Closed Loop PID Control
- Up to 100 kg payload (@±1 g)
- 75x75 cm Upper Table
- Velocity up to 1000 mm/s
- ±100 mm stroke (200 mm in total)
- Operational Frequency up to 20 Hz
- Anti-cogging technique for minimal cogging without magnet skewing
- High force density
- Stainless steel magnet way covers
- High position accuracy and resolution

ADVANTAGES

High system dynamics

High Velocity Capability

Super Low Friction

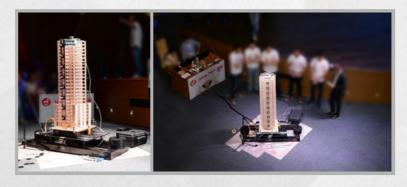
No Wear or Maintenance





Ethernet Connection

Mounting Holes (To Ground)



ndicator

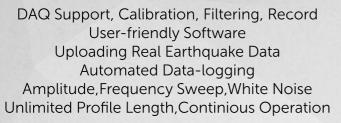
Cam Switch

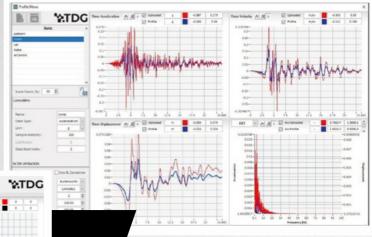
3-Phase Indicator

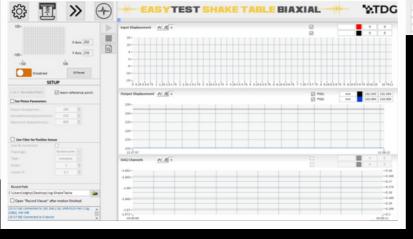
CHOICE OF DASK (NATURAL DISASTER INSURANCE INSTITUTE) SINCE 2014

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

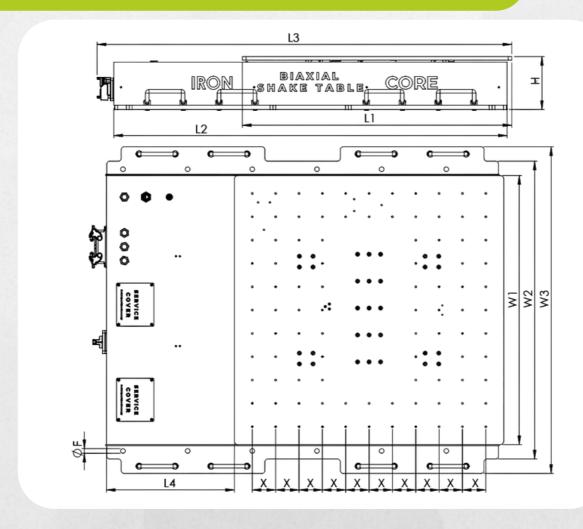






Real-time Monitoring&Detailed Analysis Sine&Triangle, Sawtooth,Arbitrary Waveforms Time Series,FFT, and Response Spectra Graphs Save/Load Profile and Motion Parameters

DESIGN of TDG SHAKE TABLE BIAXIAL IRON CORE



TDG SHAKE TABLE BIAXIAL IRON CORE

Technical Specifications

Test Capacity

Degree of FreedomDoubleMovement DirectionHorizontalTable Dimension750 x 750 mm

Payload Capacity 100 kg @ ±1g ± 4g @ < 10 kg

Velocity 1000 mm/s

Stroke ± 100 mm (200 mm)

Frequency 20 Hz

ControllerClosed Loop PID ControllerPosition FeedbackMagnetic Linear EncoderAcceleration FeedbackIntegrated Accelerometer

Encoder Resolution 596 counts/mm

Physical&Environmental

Overall Dimensions 1155 x 910 x 150 mm (L x W x H)

Weight 96 kg **Operating Temperature** 0-50 C

Power&Electrical

Mains Connection 400-480 V AC, 50-60 Hz

Pc ConnectionEthernetPower Consumption4 kW Max

Certification

CE Valid for all versions

LVD (2014/35/EU) EMC(2014/30/EU) TDG Calibration Lab Factory Calibration

Caliibration Certificate

Software

EasyTest ShakeDeveloped by TDG **Table BIAXIAL**Included in the package

Scan to see the action!





Teknik Destek Grubu Bilimsel Ölçme Ltd. Şti.

