TDG SHAKETABLE BIAXIAL IRONCORE



SHAKETABLE BIAXIAL IRONCORE 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, SHAKETABLE BIAXIAL IRONCORE also comes with EASYTEST-SHAKETABLE, 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. SHAKETABLE BIAXIAL IRONCORE 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 SHAKETABLE BIAXIAL IRONCORE 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 30 Hz
- Anti-cogging technique for minimal cogging without magnet skewing
- High force density
- Stainless steel magnet way covers
- High position accuracy and resolution

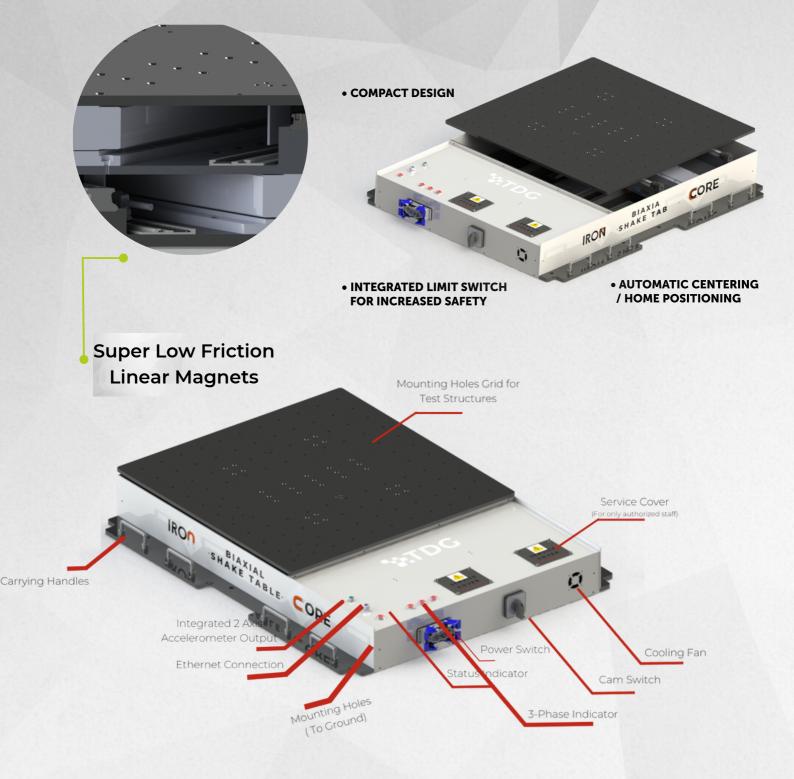
ADVANTAGES

High System Dynamics

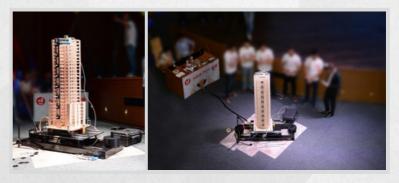
High Velocity Capability

Super Low Friction

No Wear or Maintenance



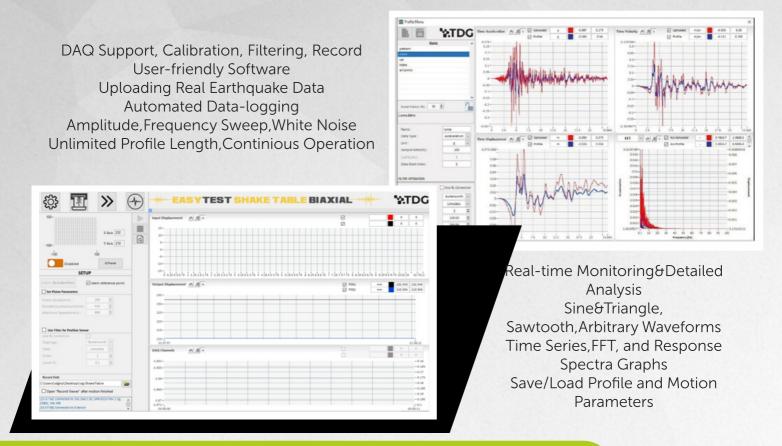




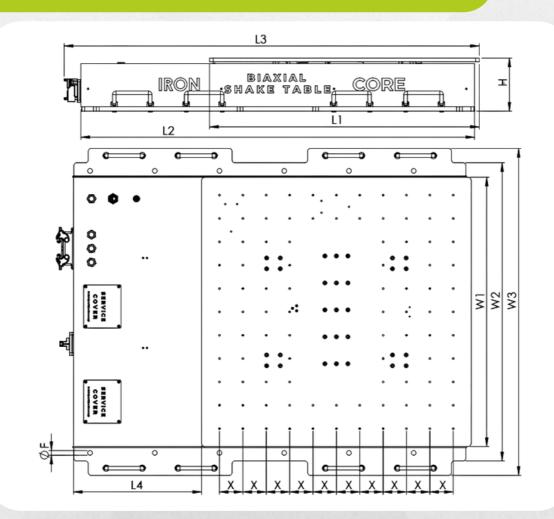
CHOICE OF DASK (NATURAL DISASTER INSURANCE INSTITUTE) SINCE 2014

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



DESIGN of TDG SHAKETABLE BIAXIAL IRONCORE



TDG SHAKETABLE BIAXIAL IRONCORE

Double

Horizontal

750 x 750 mm

± 100 mm (200 mm)

Closed Loop PID Controller

Magnetic Linear Encoder

Integrated Accelerometer

596 counts/mm

100 kg @ ±1g

1000 mm/s

30 Hz

Technical Specifications

Test Capacity

Degree of Freedom Movement Direction Table Dimension Payload Capacity Velocity Stroke Frequency

Controller

Position Feedback

Acceleration Feedback

Encoder Resolution

Physical&Environmental

Overall Dimensions Weight Operating Temperature 1155 x 910 x 150 mm (L x W x H) 96 kg 0-50 C

± 4g @ < 10 kg

Power&Electrical

Mains Connection Pc Connection Power Consumption 400-480 V AC, 50-60 Hz Ethernet 4 kW Max

Certification

CE

Caliibration

Software

EasyTest Shake Table BIAXIAL Valid for all versions LVD (2014/35/EU) EMC(2014/30/EU) TDG Calibration Lab Factory Calibration Certificate

Developed by TDG Included in the package Scan to see the action!





Teknik Destek Grubu Bilimsel Ölçme Ltd. Şti.

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