

**1000 KG CAPACITY SHAKE TABLE
TECHNICAL SPECIFICATIONS**

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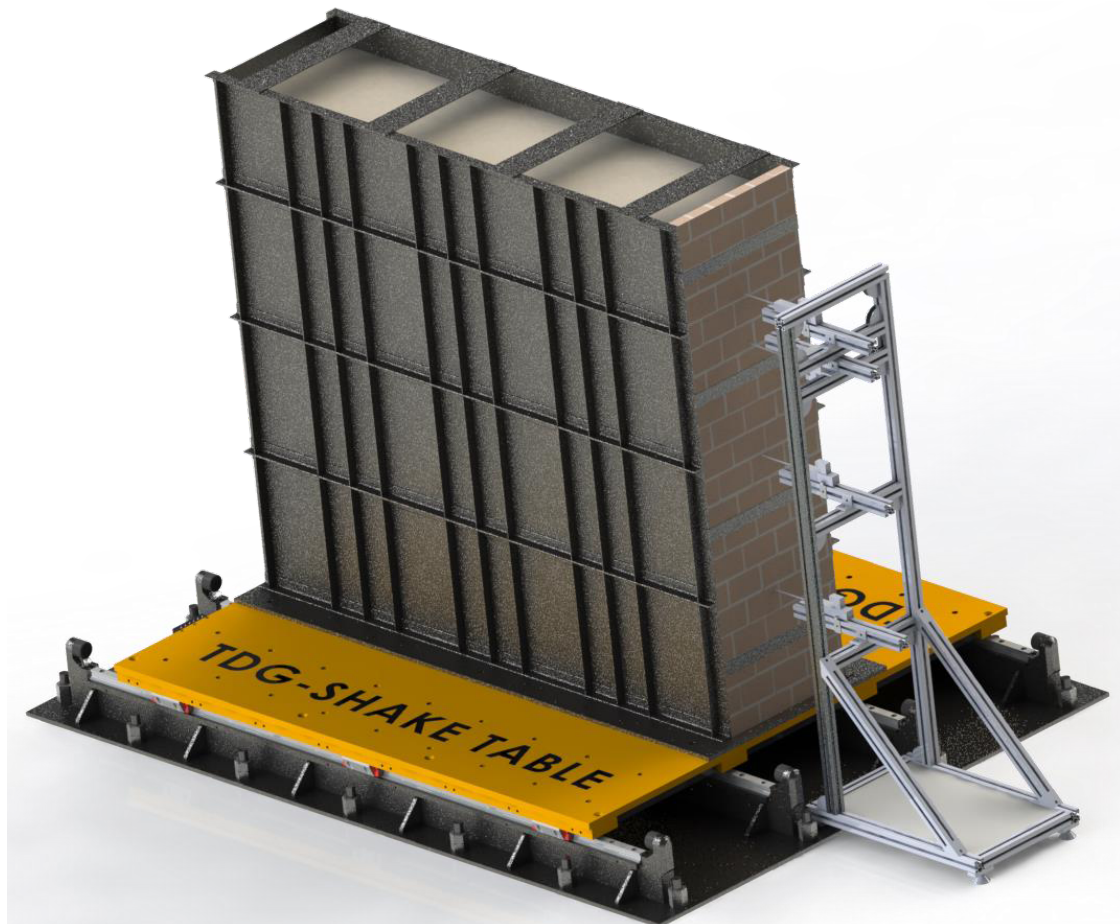
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1. TECHNICAL SPECIFICATIONS

1.1. TECHNICAL PROPERTIES

1.1.1. GENERAL PROPERTIES

- Number of Axis: Uniaxial
- Maximum Dynamic Load Capacity 1000 kg @1g
- Maximum Stroke: ± 150 mm (300 mm)
- Maximum Velocity: 500 mm/s
- Maximum Acceleration: 1g
- Displacement Resolution 0,0025 mm
- Table Dimensions: 1500 x 1500 mm
- Overturning Moment Capacity 32 kNm
- Power Requirements: 8 kW, Three Phase, 380 V AC

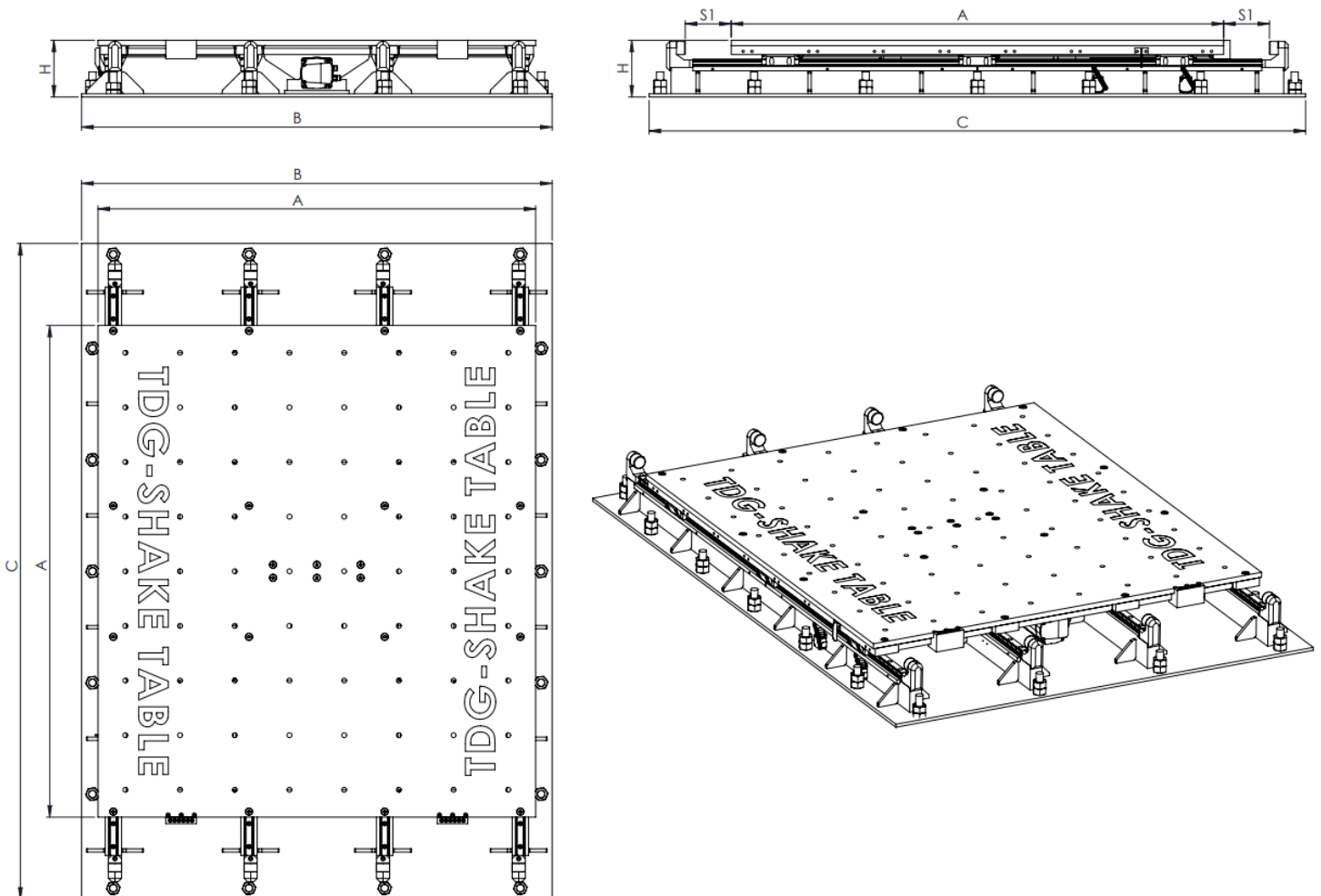


SampleServo Electromechanic Shake Table

1.1.2. MECHANICAL PROPERTIES

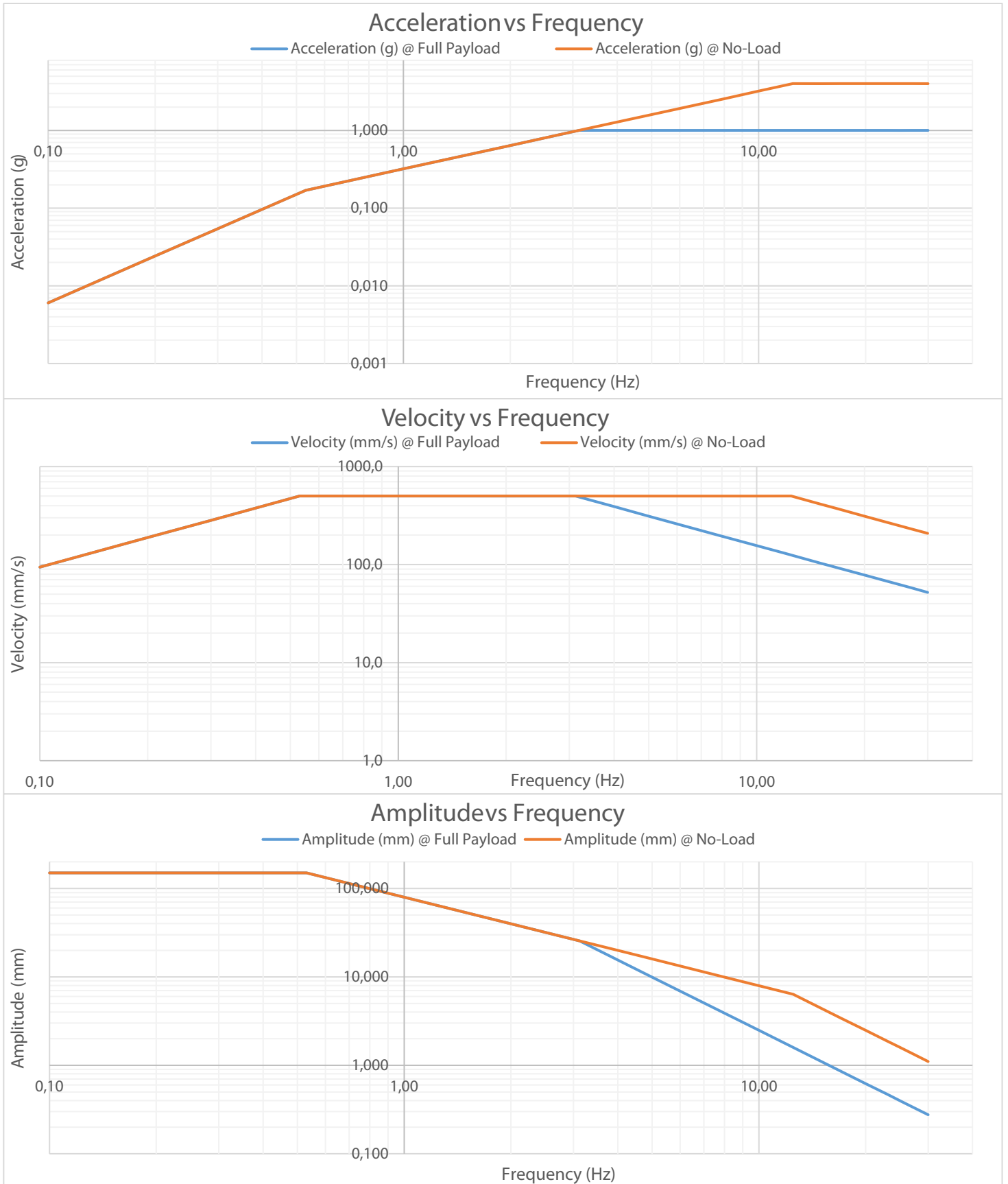
- Servo Electromechanic Motion System
- High Precision Linear Guideway with Low Friction (0,02 ~ 0,05)
- Optional Grid Mounting Holes on Upper Table
- Floor Connection Holes: M12 x 6 Nos.
- General Dimensions;

SYMBOLS	DIMENSIONS
A (Upper Table (W x L))	1500 mm
B (Total (W))	1600 mm
C (Total (L))	2000 mm
H (Total (H))	230 mm
S1 (Stroke)	150 mm



SampleShake Table General Dimensions

1.1.3. MOVEMENT PROPERTIES



Amplitude (mm) @ Full Payload	Frequency (Hz)	Velocity (mm/s) @ Full Payload	Acceleration (g) @ Full Payload
150,000	0,10	94,2	0,006
150,000	0,20	188,5	0,024
150,000	0,30	282,7	0,054
150,000	0,53	500,0	0,170
79,570	1,00	500,0	0,320
39,790	2,00	500,0	0,641
25,495	3,12	500,0	1,000
15,520	4,00	390,1	1,000
9,940	5,00	312,3	1,000
3,880	8,00	195,0	1,000
2,485	10,00	156,1	1,000
1,725	12,00	130,1	1,000
1,104	15,00	104,0	1,000
0,860	17,00	91,9	1,001
0,621	20,00	78,0	1,000

Amplitude (mm) @ No -Load	Frequency (Hz)	Velocity (mm/s) @ No -Load	Acceleration (g) @ No -Load
150,000	0,10	94,2	0,006
150,000	0,20	188,5	0,024
150,000	0,30	282,7	0,054
150,000	0,53	500,0	0,170
79,570	1,00	500,0	0,320
39,790	2,00	500,0	0,641
26,530	3,00	500,1	0,961
19,900	4,00	500,1	1,282
15,920	5,00	500,1	1,602
9,950	8,00	500,1	2,564
7,960	10,00	500,1	3,205
6,374	12,49	500,0	4,000
4,416	15,00	416,2	4,000
3,437	17,00	367,2	3,999
2,483	20,00	312,1	3,999

1.2. DIGITAL SERVO CONTROLLER SYSTEM

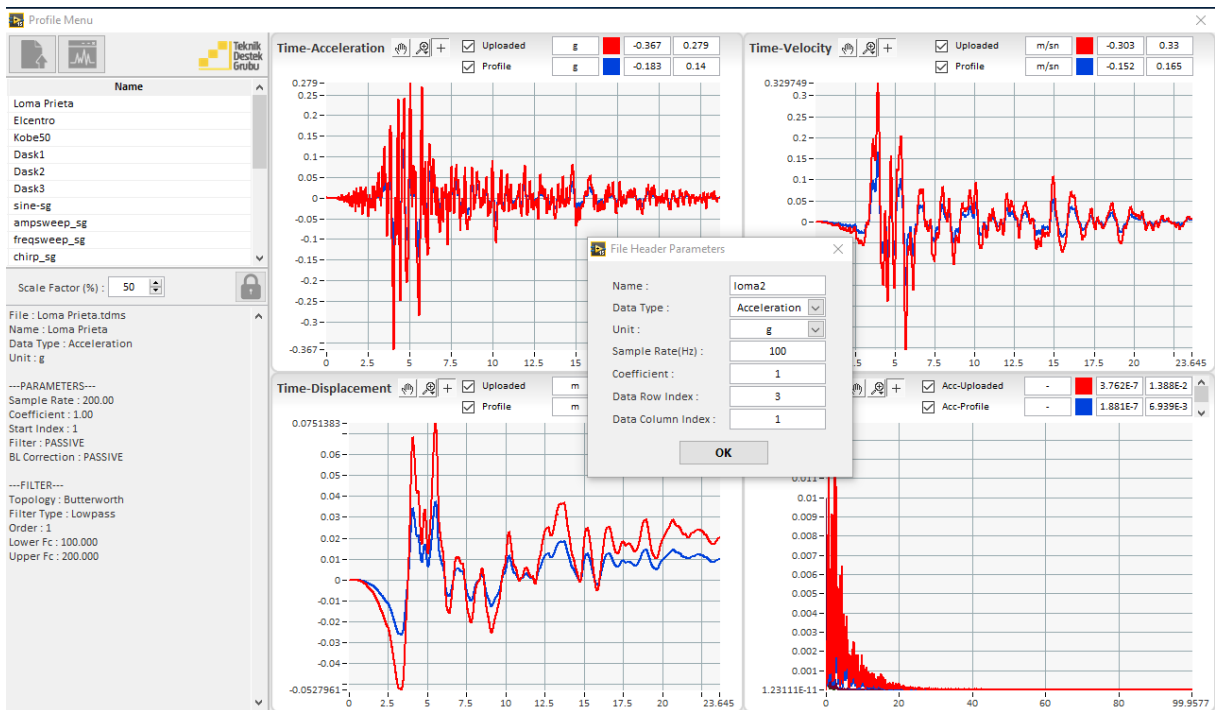
1.2.1. TDG CONTROLBOX-1R Digital Servo Controller and Datalogger

- Closed Loop PID Control
- 1 control axes
- Embedded Programming
- 10 / 100 MBit Ethernet Connection to PC Software
- Lab or Field Type Enclosure Options, Robust Connectors

1.3. TDG SOFTWARE PACKAGE

1.3.1. Easytest-Shake Table

- Labview Based, Customizable Graphical Programming
- Sine, Triangle, Saw tooth, Square, Sine Sweep, Frequency and Amplitude Sweeping and combinations.
- Time History import from ASCII files, unlimited file size and continuous operation,
- Amplitude Matching function for Cyclic Applications to minimize errors.
- Filtering and Scaling of input data
- User defined profiles, load and saving of input data and settings as a project.
- Real time display of input and output displacement / acceleration
- FFT and SRS of input and output data
- Easy Calibration for DAQ Channels (load cell, accelerometer, strain gauge type sensors, etc.)
- Digital Filter options for DAQ Channels. (Low pass, highpass, bandpass, bandstop with Butterworth, Bessel, Chebyshev, Inverse Chebyshev topologies)
- Viewer Panel for Post Processing
- Graphs palette for zooming, cursor and resizability for all the graphs.



Screenshot of Easytest Shake

2. REFERENCE PROJECTS

Project Name	8 Ton, 200x200 cm TESTBOX SHAKE TABLE
Company/ University	Fabcon Nuclear Plant, Pakistan
Year	2020
Project Name	±1g @ 5 Ton, ±200 mm, 200x200 cm, TESTBOX SHAKE TABLE
Company/ University	Gazi University, Ankara/ Turkey
Year	2020
Project Name	TESTBOX DESKTOP SHAKE TABLE
Company/ University	Universidad Of Granada Granada/ Spain
Year	2015,2020
Project Name	TESTBOX DESKTOP SHAKE TABLE
Company/ University	Ye Chance Enterprise Co., Ltd Taipei / Taiwan
Year	2018
Project Name	TESTBOX DESKTOP SHAKE TABLE
Company/ University	Uludag University Civil Engineering Bursa/ Turkey
Year	2018
Project Name	TESTBOX DESKTOP SHAKE TABLE FOR SEISMIC DESIGN COMPETITION
Company/ University	DASK- Turkish Natural Catastrophe Insurance Pool
Year	2014, 2015, 2017, 2018, 2019
Project Name	TESTBOX DESKTOP SHAKE TABLE
Company/ University	Cumhuriyet University Civil Engineering Sivas/Turkey
Year	2017
Project Name	TESTBOX DESKTOP SHAKE TABLE
Company/ University	Hanze University of Applied Sciences Groningen / Netherlands
Year	2017
Project Name	TESTBOX DESKTOP SHAKE TABLE
Company/ University	Auburn University Alabama/USA
Year	2017

Project Name	5 TON, SHAKE TABLE
Company/ University	Yildiz Teknik University Civil Engineering İstanbul/Turkey
Year	2016
Project Name	TESTBOX DESKTOP SHAKE TABLE
Company/ University	Cankaya University Civil Engineering Ankara/Turkey
Year	2016
Project Name	TESTBOX DESKTOP SHAKE TABLE
Company/ University	Mugla Sıtkı Kocman University Civil Engineering Mugla/Turkey
Year	2016
Project Name	500 KG, SHAKE TABLE
Company/ University	Sakarya University Civil Engineering Sakarya/Turkey
Year	2016
Project Name	1X1 m SHAKE TABLE
Company/ University	AFAD Republic of Turkey Prime Ministry Disaster and Emergency Management Presidency Ankara/Turkey
Year	2016
Project Name	TESTBOX DESKTOP SHAKE TABLE
Company/ University	Duzce University Civil Engineering Duzce/Turkey
Year	2016
Project Name	TESTBOX DESKTOP SHAKE TABLE
Company/ University	AINA Group Barcelona/ Spain
Year	2015
Project Name	TESTBOX DESKTOP SHAKE TABLE
Company/ University	Milenium Technologies India
Year	2014, 2015
Project Name	TESTBOX DESKTOP SHAKE TABLE
Company/ University	Industrial Electrical Co, Thailand
Year	2015
Project Name	TESTBOX DESKTOP SHAKE TABLE
Company/ University	Ozyegin University CiviEngineering İstanbul/Turkey
Year	2015

Project Name 10 TONS CAPACITY SHAKE TABLE CONTROL SYSTEM UPGRADE
Company/ University Bogazici University Kandilli Observatory and Earthquake Research Center, Istanbul/Turkey
Year 2015

Project Name TESTBOX DESKTOP SHAKE TABLE
Company/ University International Antalya University Civil Engineering, Antalya/Turkey
Year 2015

Project Name TESTBOX DESKTOP SHAKE TABLE
Company/ University Bursa Technical University Civil Engineering, Bursa/Turkey
Year 2015

Project Name TESTBOX DESKTOP SHAKE TABLE
Company/ University Abdullah Gul University Civil Engineering, Kayseri/Turkey
Year 2015

Project Name TESTBOX DESKTOP SHAKE TABLE
Company/ University Balıkesir University Civil Engineering, Balıkesir/Turkey
Year 2015

Project Name HIGH CAPACITY SHAKE TABLE
- Quasi-Static Hydraulic Loading System
- Determining Earthquake Performance In The Existing Building With Full-Scale Testing
Company/ University Istanbul Technical University, Istanbul/Turkey
Year 2014

Project Name TESTBOX DESKTOP SHAKE TABLE
Company/ University University of Houston, USA
Year 2014

Project Name TESTBOX DESKTOP SHAKE TABLE
Company/ University Nuh Naci Yazgan University Civil Engineering, Kayseri/Turkey
Year 2014

Project Name TESTBOX DESKTOP SHAKE TABLE
Company/ University Karadeniz Technical University Civil Engineering, Trabzon/Turkey
Year 2014

Project Name TESTBOX DESKTOP SHAKE TABLE
Company/ University İzmir Katip CelebiUniversity Civil Engineeringİzmir/Turkey
Year 2013

Project Name TESTBOX DESKTOP SHAKE TABLE
Company/ University Istanbul Kultur University Civil Engineeringİstanbul/Turkey
Year 2013

Project Name TESTBOX DESKTOP SHAKE TABLE
Company/ University Nigde University Civil EngineeringNigde/Turkey
Year 2013

Project Name TESTBOX DESKTOP SHAKE TABLE
Company/ University Anadolu University Civil EngineeringEskisehir/Turkey
Year 2012

Project Name TESTBOX DESKTOP SHAKE TABLE
Company/ University Atılım University Civil EngineeringAnkara/Turkey
Year 2012