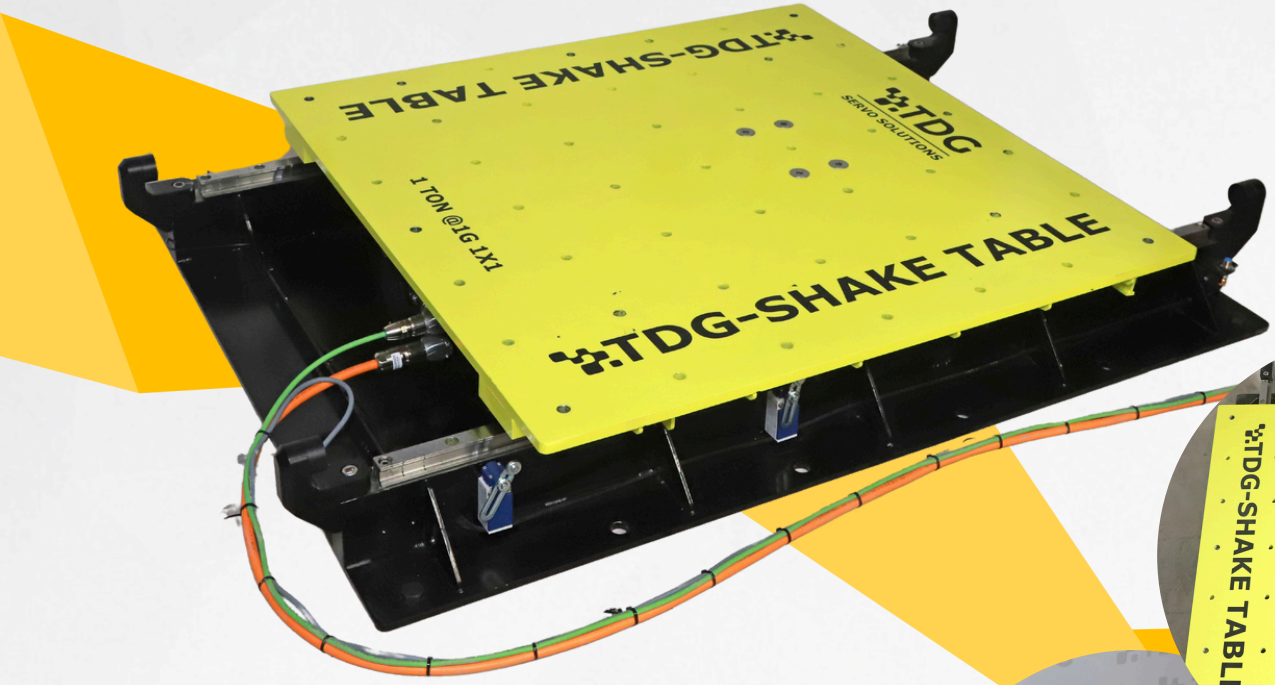
TDG-SHAKETABLE 1 TON



Technical Specifications

Axis	Uniaxial
Loading Capacity	1000 Kg @ 1g
Stroke	±200 mm
Table Size	150 cm x 150 cm
Maximum Velocity	500 mm/s
Maximum Acceleration	±2.5g @ No Load
Power Requirement	8 kW 380 V AC
Tipping Moment Capacty	43 kNm
Maximum Operating Frequency	15 Hz
Positioning Accuracy	0.0025 mm

SERVO ELECTRO MECHANICAL SYSTEM

LOW FRICTION PRECISION LINEAR GUIDANCE SYSTEM

STRONG GROUND ANCHOR HOLES

GRID MOUNTING HOLES

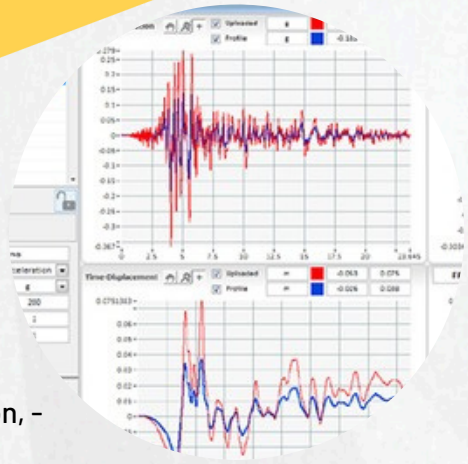
TDG

TDG CONTROLBOX

Digital Servo Controller

- 1 x 16 Bit ±10V control channel for servo system
- 1 X 16 Bit ±10V analog output for feeding the table position to DAQ system.
- Digital encoder input for table position
- Up to 4 kHz selectable PID control loop time
- Signal generation (Contour Mode) up to 2 kHz
- Ethernet connect on to PC
- Advanced PID control with velocity and acceleration feed forwards, notch filter and lowpass filter.
- Emergency stop button
- Digital relay outputs for enabling / disabling torque from software

EASYTEST SHAKETABLE



SHAKETABLE CONTROL Software

-Labview Based, Customizable Graphical Programming
-Sine, Triangle, Sawitooth, Square, Sine Sweep, Sine Beat, Random/Transient, Classical Shock, Waveform Replication, Frequency and Amplitude Sweeping and combinations.
-Signal and Time History Generator
-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, data acquisition channels.
-Acceleration-Velocity-Displacement Time History, FFT and Response Spectrum of input and output data. Test simulation.
-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 and Seismic Analysis.
-Graphs pallette for zooming, panning, cursor and resizability for all the graphs.

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