



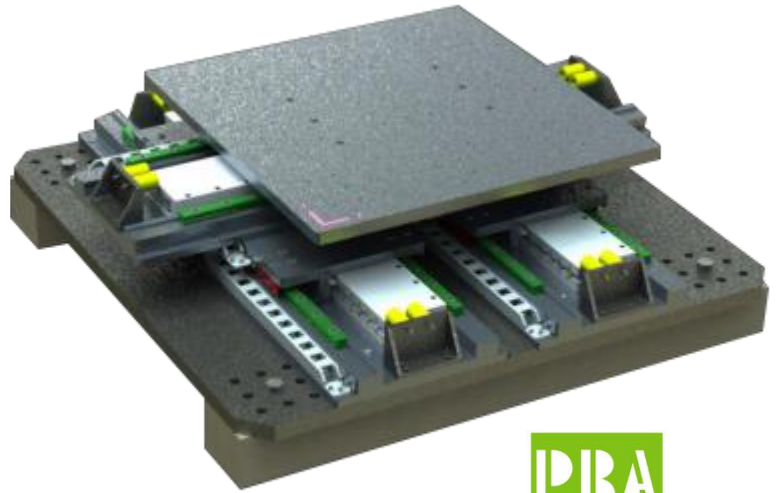
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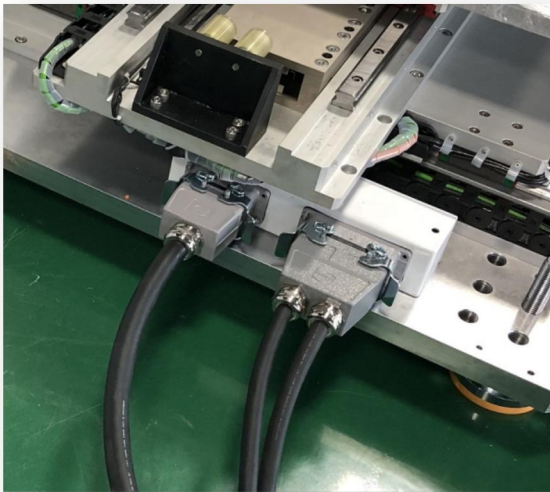
Seismic Dual Axis Table (Model: GSDT1001)

Introduction

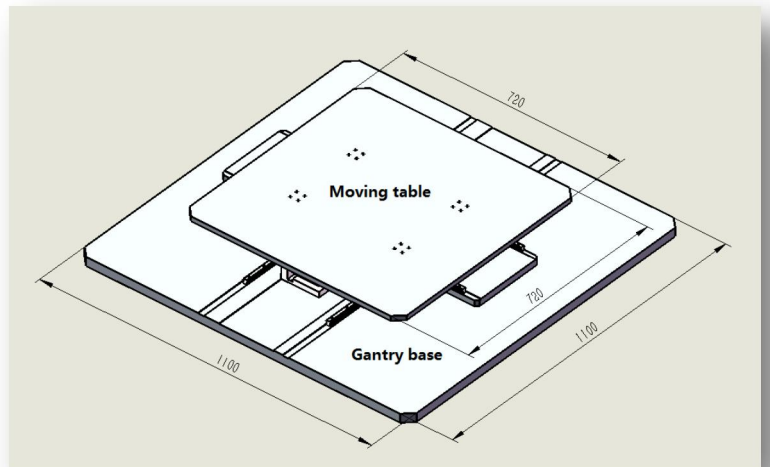
Seismic Dual Axis Table is a high-power seismic simulation device that can be used for vibration-related research such as structural dynamic performance. The device can achieve high speed, high acceleration and high frequency motion under heavy load conditions.



PBA Systems Linear Motors



HARTING cables and connectors



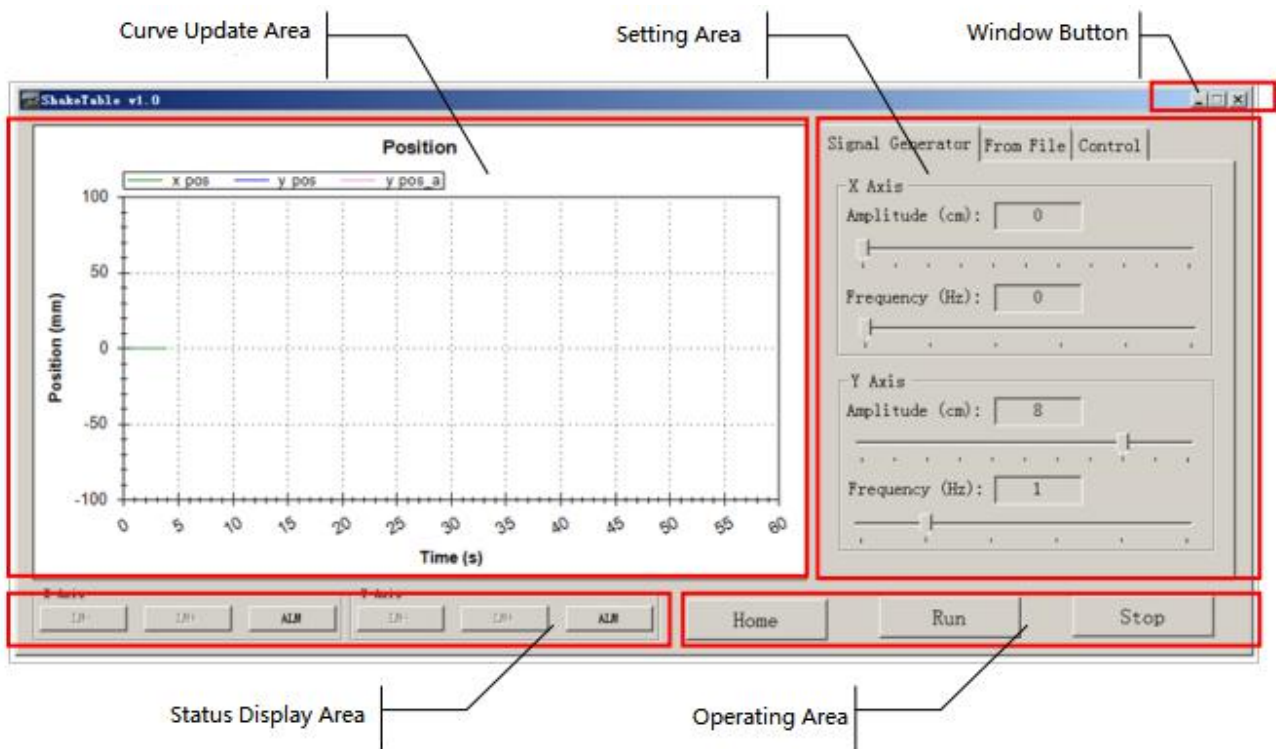


System Characteristics

- XY dual-axis motion, where X-axis is a dual linear motor in parallel
- Easy maintenance
- High motion accuracy and low noise
- Ample mounting holes for users to integrate other devices
- Compatible with MATLAB® / Simulink®
- With origin, positive and negative limit signals, strong mechanical safety hard limit

Control Principle

The seismic simulation dual-axis shaking table experimental system is driven by three linear motors, of which the X-axis is driven in parallel by the dual-linear motors and the Y-axis is driven by the single linear motor. Each linear motor drive shaft is equipped with a high-precision encoder as a position feedback element, providing high-precision speed and position information.



System Operation Interface



Experimental Contents

- Linear motor closed-loop control
- High-precision motion platform interpolation motion
- Frequency response test
- Uni-axial seismic wave influence experiment
- Experiment of bi-axial seismic wave influence

Specifications

Items	Specifications	Values
The motor of X axis(X2)	Type	3 phase brushless linear motor
	Stoke	240mm
	Peak force	3171N
	Continuous force	906N
	Rating Power	377.9 watts
	Maximum power	6045.8 watts
	Continuous current	3.2A
	Peak current	11.2A
The motor of Y axis	Type	3 phase brushless linear motor
	Stoke	240mm
	Peak force	3171N
	Continuous force	906N
	Rating Power	377.9 watts
	Maximum power	6045.8 watts
	Continuous current	3.2A
	Peak current	11.2A
The encoder of X and Y axis	Scale type	Stainless steel band
	Accuracy class	±5um
	Resolution	1um
	Signal type	TTL
The motor drive of X and Y axis	Continuous current	6A
	Peak current	18A
	Input power	3 Phase power voltage 220V- L+10%~15% 50/60Hz

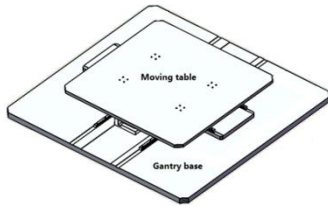


Ordering Guide

Product Model Number	Product Name	Standard Configuration
GSDT1001	Seismic Dual Axis Table	<ul style="list-style-type: none"> ✧ Main Body ✧ Motion Controller (GTS-400-PV-VB) ✧ Electric Control Box ✧ Connect Cable ✧ Communication Cable ✧ Emergency Stop Button Box (3m Connect Cable) ✧ Transformer (SG-8) ✧ Power Plug ✧ Transformer Cable ✧ User CD

Installation Process

- PCI control card will be provided for connecting PC to the table.
- PC based control software & Matlab drive will be provided.
- Connection diagram as below:



1. Seismic Table Body
2. Control Cabinet & Power Supply

PCI Control Card

PC & Windows (Not provided)

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