QUAKELOGIC

SHAKEBOT

Affordable Shake Table

Shakebot, a low-cost, open-source shake table designed specifically for engineering research and education.

- **Open-Source Software with ROS:**

  The shake table runs on the Robot Operating System (ROS), allowing for modular software integration and facilitating easy transition from simulation to physical experiments.

- **Accessible and User-Friendly:**

  The Shakebot's low cost and simple setup make it ideal for students, educators, and researchers, especially in low-resource settings.

KEY FEATURES

- DEGREE OF FREEDOM: SINGLE
- MOVEMENT DEGREE: HORIZONTAL TABLE
- DIMENSIONS: 310 X 810 MM (EXCLUDING CONTROL BOX)
- PAYLOAD: 50 KG @ 1 G
- VELOCITY: 600 MM/S
- STROKE: +/-110 MM (TOTAL 220 MM)
- MAX. OPERATING FREQUENCY: 25 HZ
- POSITION PRECISION: 0.1 MM
- MAX. ACCELERATION at 5 KG AND 2 M/S: 5 G
- OPEN ARCHITECTURE DESIGN ALLOWING USERS FOR CUSTOM CODING FOR CONTROLLER
- SOFTWARE: PYTHON (SUPPORTED BY ROBOT OPERATING SYSTEM)

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live datasheet

WHY SHAKEBOT?

- AFFORDABLE: Shakebot offers a high-performance solution at a fraction of the cost of traditional shake tables.
- OPEN SOURCE: Wth ROS-based software, Shakebot allows for extensive customization, making it suitable for a wide range of seismic research applications.
- VERSATILE: Provides a smoother experience for building occupants by reducing the effects of environmental vibrations.

APPLICATIONS

- Seismic and Structural Research: Ideal for studying active control techniques and vibration management.
- Building Dynamics: Suitable for studying vibration control in model structures.
- Research Laboratories: Provides flexible testing and control capabilities for vibration experiments.
- Geotechnical Testing: Ideal for demostration of liquecation, lateral spreading and landslides.

CONTACT US

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