



Shakebot-40, with top-plate dimensions of 40 x 40 cm is 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.

SHAKEBOT-40

Affordable Shake Table

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)





WHY SHAKEBOT?

- **AFFORDABLE:** Shakebot offers a high-performance solution at a fraction of the cost of traditional shake tables.
- **OPEN SOURCE:** With 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.



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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 demonstration of liquefaction, lateral spreading and landslides.



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