

MagLevit[®]

Anti-Vibration Platform & Table Magnetic Isolation Technique

Efficient Use
Easy Installation
Compact Design
Revolutionary Concept

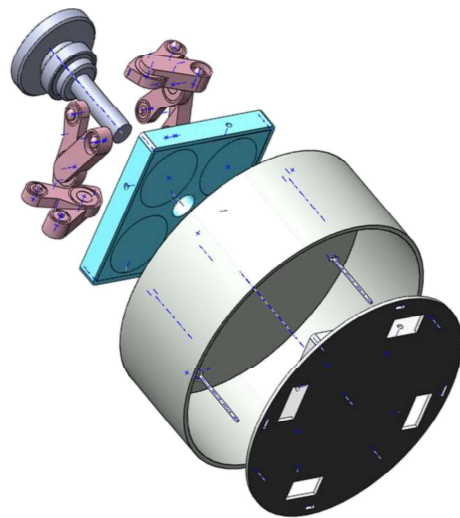
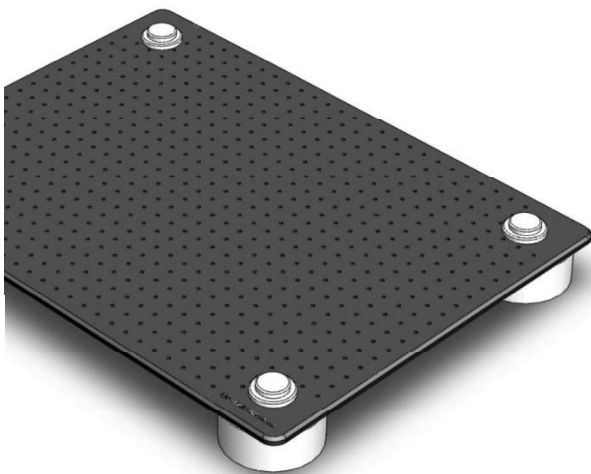
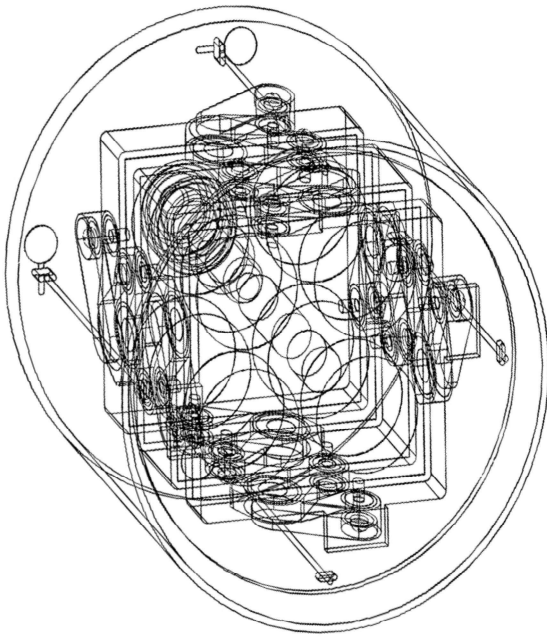


Table-Top Type MagLevit[®] Performance

Description

- Anti-vibration platform with a revolutionary concept in low frequency vibration
- The best performance to isolate transmission of variable vibration in all directions by two patent pending methods: vertical isolation (magnetic isolation technique) and horizontal isolation (suspension mechanism)
- A compact design to mount on any tables to fit all kinds of microscopes and live cell imaging systems.

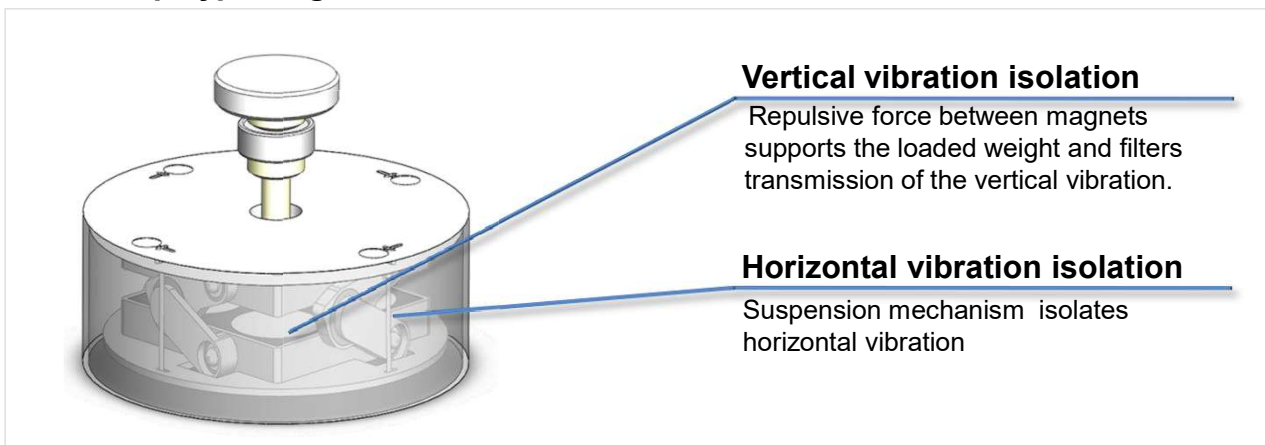


Specification

MagLevit module adopts a new technology for vibration isolation different from existing ways using the air damping or springs.

- Vertical vibration isolated by repulsive force between magnets to support the loaded weight and to prevent vibration transmission.
- Horizontal vibration isolated by flexible wires connecting magnets inner to outer structure.
- Considerable reduction of the vibration transmission contributes to microscopic imaging experiments extensively.
- None of any peripheral devices is required such as pressurized air tank or air compressor.

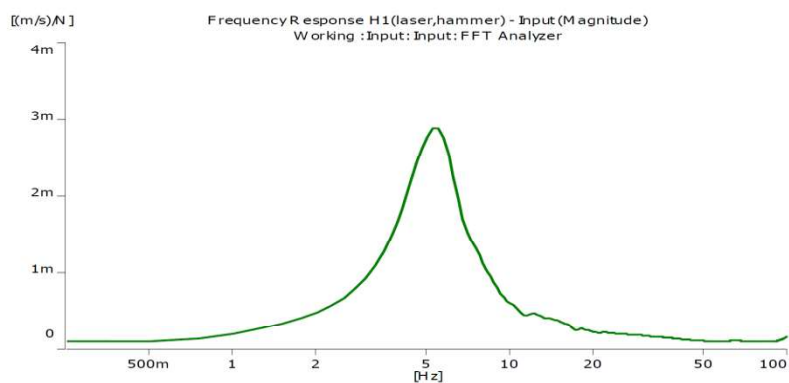
Table-Top Type MagLevit Module





Vertical Direction

x-axis (Log scale) , y-axis (Linear scale)



$$m\ddot{x} + kx = 0$$

$$\ddot{x} + \omega_n^2 x = 0$$

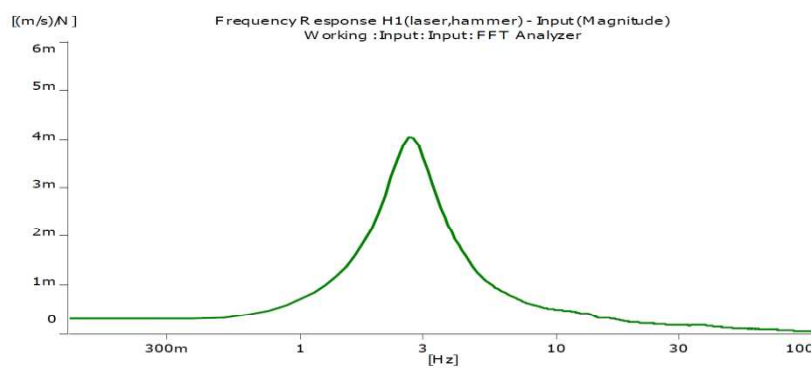
$$\therefore 2\pi f = \omega_n$$

$$f = \frac{\omega_n}{2\pi}$$

$$\left\{ \omega_n = \sqrt{\frac{k}{m}} \right\}$$

Horizontal Direction

x-axis (Log scale) , y-axis (Linear scale)



$$ml^2\ddot{\theta} + mgl\theta = 0$$

$$\ddot{x} + \omega_n^2 x = 0$$

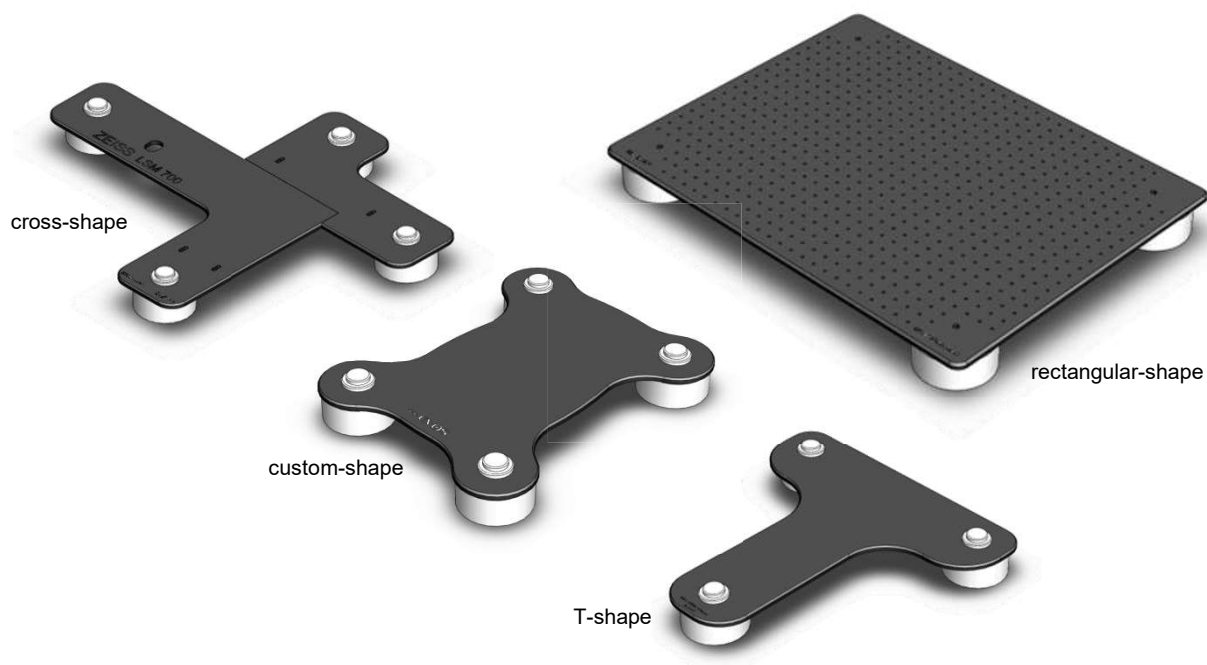
$$\therefore 2\pi f = \omega_n$$

$$f = \frac{\omega_n}{2\pi}$$

$$\left\{ \omega_n = \sqrt{\frac{g}{l}} \right\}$$

Table-Top Type MagLevit[®]

Technical Specification



- We will custom-make any sizes or any shapes of MagLevit to fit all microscopes.
- Standard types of shapes (T / cross / rectangular shapes) depend on types of the microscopes.
- Height adjustment of the isolation module by using knobs or a hexagonal wrench
- Usable with all equipment for vibration isolation for the balance, the centrifuge, the pump, and the microscope
- Efficient installation in a very small space
- Cross shape is designed for a confocal microscope (e.g. Zeiss LSM 700 or etc.)

Armrest



- The arm rest is offered as an option to microscope users for easy-use of the lens-controlled knob.
- T-shape and cross shape are available.

Table-Top Type MagLevit® Technical Specification

Knob & Thread Type



Ordering Chart

Table-Top Type MagLevit				
Plate Size		Model No.	Height Adjustable Knobs	Threaded Holes Pattern (M6 at 25mm spacing)
Rectangular Shape	600 x 600mm	ML-R-6060	Y (Outside)	Y (With threaded holes)
	600 x 700mm	ML-R-6070		
	600 x 800mm	ML-R-6080		
	600 x 900mm	ML-R-6090		
	600 x 1,000mm	ML-R-6100		
T-shape		ML-T-6060	N (Inside)	N (Without threaded holes)
Cross shape		ML-C-6080		
Custom-make		ML-X-nnnn		

We will custom-make any sizes or any shapes of table-top type MagLevit.

(e.g.)

(ML-X-nnnn)

ML-R-6060 N Y

Rectangular shape table-top

600x600mm plate size

With threaded holes pattern

Inside height adjustable knobs