

## MK52 Negative-Stiffness Optical Table Isolation System



Tables 5' or less



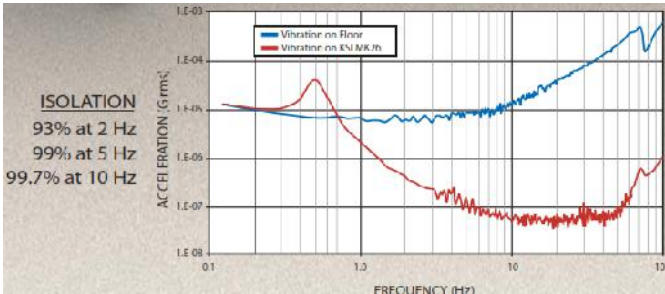
Tables over 5'

### Features/Benefits:

- Ultra-low natural frequencies
- Vibradamped frame
- Customizable accessories
- Choice of tabletops
- Ergonomic style
- Class 100 cleanroom compatible

Introducing the MK52, the New Optical Table for ultra-low natural frequency applications. The Kinetic Systems MK52 Optical Table utilizes two Minus K patented negative-stiffness vibration isolators to provide a passive optical table with ultra-low natural frequencies, higher internal structural frequencies, and excellent vertical and horizontal isolation efficiencies.

The Minus K vertical isolators use a stiff spring and a negative-stiffness mechanism to achieve a low net vertical stiffness without affecting the static load supporting capability. Horizontal isolation is provided by beam columns connected in series with the vertical-motion isolator. Adjusted to a 1/2 Hz natural frequency, the table achieves 93% isolation efficiency at 2 Hz, 99% at 5 Hz, and 99.7% at 10 Hz.



The optical table can be designed for a wide variety of applications and customized with auxiliary work surfaces, enclosures, shelves, seismic restraints, retractable casters, and many other options.

The premiere choice for large applications requiring high resolution such as: Raman spectroscopy, atomic force microscopy (AFM), AFM-Raman integration, and micro-hardness testing.

### Ordering Information

#### MK52XX-WWLL-TT

#### Gross load capacity (XX)

- 02 = Up to 700 lbs
- 03 = Up to 1000 lbs
- 04 = Up to 1300 lbs
- 05 = Up to 1700 lbs
- 06 = Up to 2000 lbs

#### Tabletop Description (TT)\*\*

- 11 = 1" (25mm) Vibradamped steel w/white plastic laminate
- 12 = 1" (25mm) Vibradamped steel w/stainless steel laminate
- 13 = 1" (25mm) Vibradamped steel w/black plastic laminate
- 14 = 1" (25mm) Vibradamped steel w/anti-static laminate
- 21 = 2" (51mm) Composite w/white plastic laminate
- 22 = 2" (51mm) Composite w/stainless laminate
- 23 = 2" (51mm) Composite w/black plastic laminate
- 24 = 2" (51mm) Composite w/anti-static laminate
- 30 = 4" (101mm) Granite
- 40 = 2" (51mm) Honeycomb/no holes
- 45 = 2" (51mm) Honeycomb 1/4-20 x 1" enters
- 46 = 2" (51mm) Honeycomb M6 x 25mm centers
- 80 = 4" (101mm) Honeycomb/no holes
- 85 = 4" (101mm) Honeycomb 1/4-20 x 1" centers
- 86 = 4" (101mm) Honeycomb M6 x 25mm centers

#### Tabletop Size (WWLL)\*

- 3660 = 36" x 60"
- 3672 = 36" x 72"
- 3696 = 36" x 96"
- 4860 = 48" x 60"
- 4872 = 48" x 72"
- 4896 = 48" x 96"

### Specifications

Max. Load Capacity	2000 lbs.	Max. Width of Tabletop	48"
Max. Length of Tabletop			96"
Vertical Natural Frequency			0.5 Hz
Horizontal Natural Frequency			0.5 Hz
Isolation Efficiency @ 2HZ			93%
Isolation Efficiency @ 5HZ			99%
Isolation Efficiency @ 10HZ			99.7%

\* Custom sizes available

\*\* For tabletops with thickness greater than 4" contact us