

**Microscopy News – January 2017**

## **MINUS K ANNOUNCES NEW MK52 NEGATIVE-STIFFNESS VIBRATION ISOLATION OPTICAL TABLE**



Minus K Technology, a leading manufacturer of vibration isolation products has partnered with Kinetic Systems, Inc in designing a new, versatile, ultra-low-natural-frequency optical table isolation system. The MK52 negative-stiffness optical table achieves 0.5 Hz or lower vertical and horizontal natural frequencies without limiting its ability to support static loads. When adjusted to a 0.5 Hz natural frequency, the MK52 achieves 93% isolation efficiency at 2 Hz, 99% at 5 Hz, and 99.7% at 10 Hz.

The MK52 Optical Vibration Isolation Table can be configured for a wide variety of locations and applications – wherever external vibrations can adversely affect the operation of sensitive equipment. Ultra-low natural frequencies, high internal structural frequencies, and excellent vertical and horizontal isolation efficiencies make the system well-suited to applications such as analytical balances, cell injection, confocal microscopes, patch clamping, optical microscopes, wafer probing, sensor calibration, and laser applications in fields such as semiconductor processing, telecommunications, aerospace engineering, and medical research. The MK52 is also ideal for applications requiring high resolution, such as Raman spectroscopy, atomic force microscopy (AFM), AFM-Raman integration, and micro-hardness testing.

The MK52 is available in table sizes up to 4' x 8' with gross load capacities up to 2000 pounds (909Kg) (larger optical table sizes will be considered). Tables are constructed with a 3/16" thick ferromagnetic stainless steel top skin, 3/16" thick carbon steel bottom skin, and plated-steel precision honeycomb core.

Customization options include guard rails, padded armrests, overhead equipment shelves, monitor stands, non-isolated shelves for supporting equipment off the tabletop, seismic restraints, auxiliary work surfaces, retractable casters, Faraday Cages, and tabletop enclosures to protect against harsh manufacturing environments.

Check out all the specifications at:

[www.minusk.com/content/products/standard/mk52\\_optical\\_tables\\_vibration\\_isolation\\_systems.html](http://www.minusk.com/content/products/standard/mk52_optical_tables_vibration_isolation_systems.html)

**About Minus K Technology, Inc.**

Minus K Technology, Inc. designs, manufactures and markets high performance vibration isolation products, systems and services to a wide range of markets from biology and neuroscience to aerospace, semiconductors, and nanotechnology. Minus K's innovative solutions enhance the capabilities and productivity of its customers' manufacturing, engineering and research applications. Minus K is the vibration isolation platform of choice for many critical applications, providing end-user and OEM solutions to commercial, academic and government customers worldwide. They are an OEM supplier to leading manufactures of SPMs, micro-hardness testers and other sensitive instruments. Founded in 1993, Minus K is headquartered in Inglewood, California.

For additional information about Minus K's capabilities, contact:

Steve Varma

Operations Manager

Minus K Technology, Inc.

460 Hindry Ave., Unit C

Inglewood, CA 90301

Phone 310-348-9656

email [stevev@minusk.com](mailto:stevev@minusk.com)

[www.minusk.com](http://www.minusk.com)