

Press Release - November 2019

Minus K Receives Laser Focus World Innovator Award for Ultra-Thin, Low-Height CT-1 Vibration Isolation Platform

The awards were given to companies or organizations that demonstrated excellence in a product or technology, an application, or in research and development.



For the second year, Laser Focus World held its Innovators Awards program, which celebrates the disparate and innovative technologies, products, and systems found in the photonics market. The awards were given to companies or organizations that demonstrated excellence in a product or technology, an application, or in research and development.

Laser Focus World's impartial judges based their ratings of the submissions on originality; innovation; their impact on designers, systems integrators, or users; whether they fulfilled a new market need; leveraged a novel technology; and/or increased productivity.

Minus K received a Bronze award in the category positioning, support & accessories for their ultra-thin CT-1 Tabletop Vibration Isolation Platform, recognizing an innovation that resulted in improvement over previous methods employed, approaches taken, or products/systems used.

The CT-1 offers Minus K's signature 0.5 Hz vertical natural frequency and 2.0 to 2.25 Hz horizontal natural frequency using patented technology that delivers this performance in a 2.25-in.-tall isolation platform that offers 10–100 times better performance than a full-size air table.



Now only 2 1/4 inches tall

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The completely passive mechanical isolator requires no air or electricity and is suitable for use directly under bench top instruments. With only two adjustments possible, making it easy to set up and easy to use, the CT-1 not only optimizes critical space utilization, but also provides better ergonomics for viewing through the eyepiece of a microscope.

The transmissibility of the CT-1 is substantially improved over air and active isolation systems. When adjusted to 1/2 Hz vertical natural frequency, the CT-1 Negative-Stiffness isolator achieves approximately 93 percent isolation efficiency at 2 Hz; 99 percent at 5 Hz; and 99.7 percent at 10 Hz.

Negative-Stiffness vibration isolation systems have become a growing choice for micro- and nanotechnology microscopy applications. Not only are they a highly workable vibration solution, but they provide location flexibility and portability that other vibration isolation systems cannot.

The criteria for the different levels of Innovators Awards are:

- Bronze: Recognizes an innovation that resulted in improvement over previous methods employed, approaches taken, or products/systems used.
- Silver: Recognizes a very good innovation that resulted in not just incremental improvement, but in marked improvement over previous methods employed, approaches taken, or products/systems used.
- Gold: Recognizes an excellent innovation, the benefits of which are clear. A Gold-level Innovators Award recipient makes a substantial improvement over previous methods employed, approaches taken, or products/systems used.
- Platinum: Recognizes a superb innovation, characterized by a groundbreaking approach to meeting a need, and/or a new level of performance, efficiency, ease-of-use or other beneficial quality.