(See vibration isolation technology @ www.minusk.com?pdf)



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Vibration Isolator



Minus K Technology has released a compact, high-capacity, low-frequency negativestiffness isolator designed to support heavy payloads while reducing low-frequency vibrations. The new CM-1 isolator comes in several capacity ranges to match vibration-sensitive instruments such as SPMs (AFMS, STMs, etc), micro-hardness testers, profilers, interferometers, electron microscopes, or other imaging systems, for weight loads from 50 to 800 lbs.

The CM-1 can deliver a vertical natural frequency of 1/2 Hz or less, which can be achieved over the entire load range. Horizontal natural frequency is load dependent.

1/2 Hz or less can be achieved at or near the nominal load.

As with all Minus K isolators, the CM-1 is completely passive, using no air or electricity. The new isolators can be combined into multi-isolator systems to support heavy payloads while taking up very little room themselves. The CM-1 isolators can be placed on pedestals to bring them to an appropriate height to retrofit existing air tables, enabling existing table top systems to achieve much better isolation.

If needed, the CM-1 isolators can be customized to achieve user-specific needs. For example, different horizontal and vertical frequencies, damping, etc. They can also be made cleanroom and vacuum compatible.

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