

# Vibration Isolation Baseplate for Microscopes



Newport Corp., a worldwide leader in lasers and photonics solutions that make, manage, and measure light, today introduced a new table-top vibration isolation platform designed specifically for sensitive instrumentation and microscopes. The VIBe, vibration isolation baseplate, is a compact, effective, and easy-to-use platform that significantly reduces vibrations that can disturb sensitive instruments. The VIBe is available in four standard shapes, two rectangular and two triangular, that have been designed to satisfy the widest range of application needs. All VIBe units feature a black powder-coated steel plate and patented mechanical isolators that provide both vertical and horizontal vibration isolation, there are no air lines, compressors, or other accessories needed to provide effective isolation performance. Fundamental to Newport's VIBe are the IB isolator bearings that are available in discrete payload ranges, as identified by their part number. In total, Newport offers six models of IB bearings that effectively cover a load range from 10 to 100 lbs. This allows users to configure the proper size platform and bearings in the required locations on the baseplate to support and isolate their instrument, even if the load is not uniform.

The isolators feature a 6.7 Hz vertical resonance frequency that begins isolating at 9 Hz and a horizontal resonance of 6.2 Hz with isolation beginning at 9 Hz. This is sufficient performance to eliminate more than 85% of vibration noise seen within typical laboratories. The IB bearings attach to the VIBe baseplate using specially designed brackets that feature a threaded aperture to allow leveling adjustment of the VIBe baseplate.

The two rectangular platforms come in 12 x 18 in. and 18 x 24 in. sizes and can be equipped with isolator bearings to support payloads from 5 lbs. to over 350 lbs. The triangular models have been designed specifically to accommodate a large

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assortment of microscope footprints from all leading manufacturers. Special shapes and sizes are also available on request.

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