MAD CITY LABS INC.

UHV Nanopositioning December 2015

Capacitive sensors perform poorly in vacuum, with performance degrading up to 60% per meter of cable length. Mad City Labs **PicoQ® sensor performance does not degrade in vacuum**. Our extensive and practical knowledgebase, combined with proprietary **PicoQ® sensor technology**, uniquely places us to provide a standard product line of **UHV nanopositioners and micropositioners** and develop customized solutions with the highest performance characteristics.

- **lowest UHV prices**
- best UHV design
- highest resolution available in UHV
- **PicoQ® sensor technology**
- Unlike capacitive sensors, the **performance of PicoQ sensors are not degraded in UHV**
- UHV engineers with over 50 years combined UHV experience
- Standard nanopositioning systems can be customized

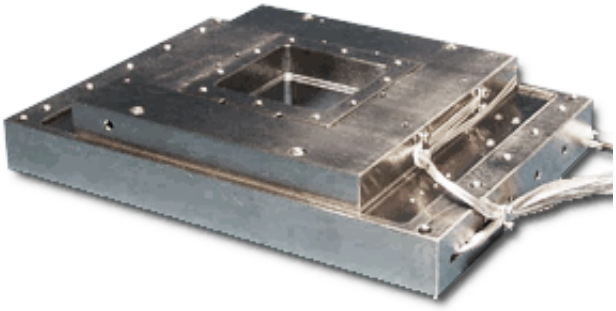
3 axis custom UHV system.

Applications

- X-ray, VUV, and optical microscopy and spectroscopy
- Surface metrology
- UHV atomic scale microscopy
- Interferometry
- Particle physics

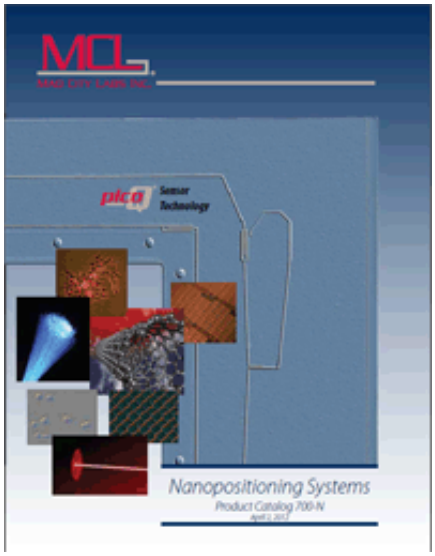
Custom three axis tip/tilt nanopositioning solution for UHV 10 meter atomic interferometer.

Mad City Labs has a standard line of **UHV compatible nanopositioners**. These nanopositioners have a central aperture for beam lines and optical transmission with 50 to 200µm range of motion on two or three axes.



***Nano-UHV200** system with 200 µm range of motion in XYZ, closed loop control, and large central aperture. Bakeable to 100 C.*

Product Catalog



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