

# Custom Solutions

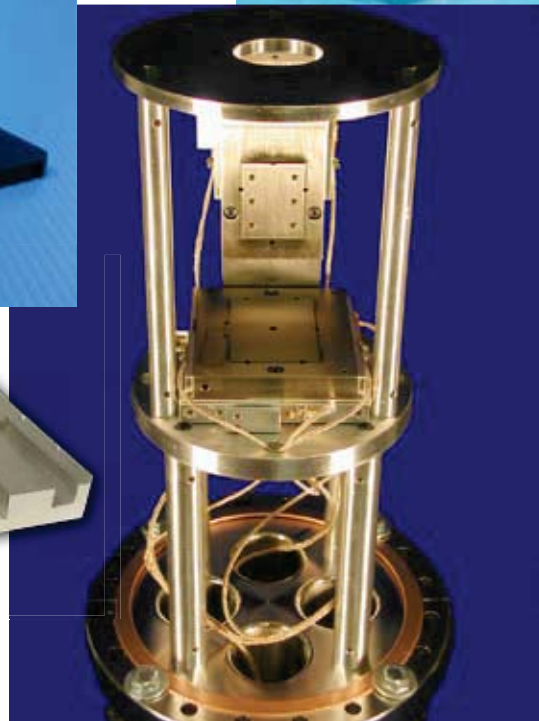
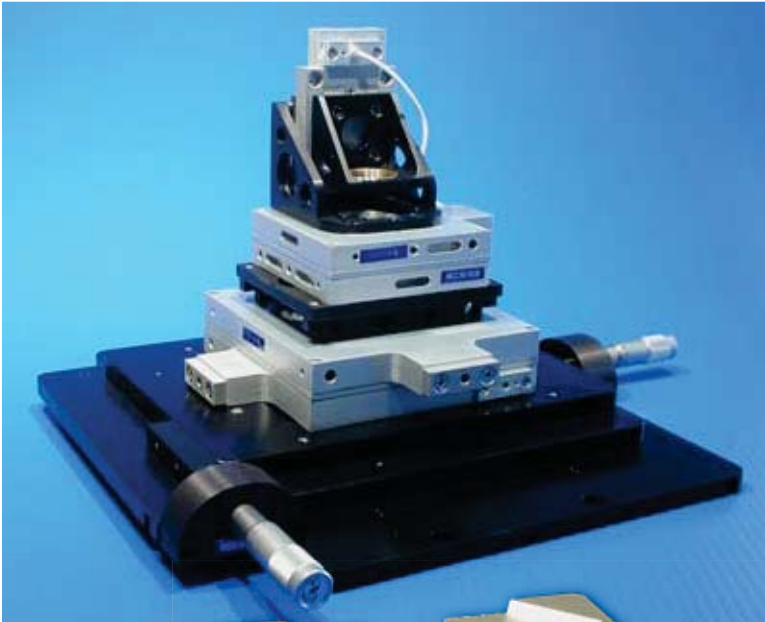
- ▶ *Fast delivery without added design costs*
- ▶ *Interface with staff scientists who have direct research experience*
- ▶ *In-house CNC fabrication under direct control of designers*
- ▶ *Specialty materials*
- ▶ *UHV expertise*
- ▶ *OEM designs with customized or board level controllers*

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## Custom Systems

From simple modifications of existing designs to completely custom projects, Mad City Labs' engineering team has the capability to quickly provide unique nanopositioning systems for specialized requirements. In-house research scientists with extensive experience in UHV instrumentation, optical spectroscopy, and nanotechnology can provide the real-world advice and assistance to move a project from concept to reality. Generally, this

work is done without NRE charges and without any requirements for multiple unit orders. Whether you need a special physical configuration, expanded or reduced range of motion, compatibility with environmental conditions, or special materials, a short discussion with our technical sales staff and engineers will quickly reveal the feasibility of a custom solution.

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## Design Parameters

- ▶ Axes of motion needed?
- ▶ Range of motion for each axis?
- ▶ Required speed of motion?
- ▶ Dimensional limitations?
- ▶ Center aperture?
- ▶ Environmental conditions (UHV, magnetic fields, etc.)?
- ▶ USB computer interface needed?
- ▶ Coarse positioning needed?
- ▶ Mass of attached components which must be moved?

