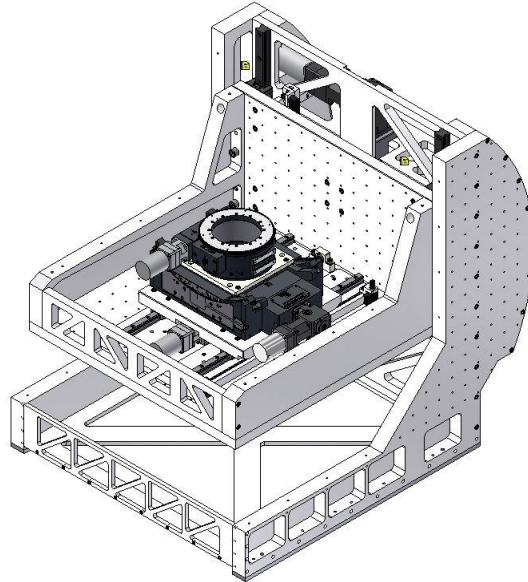


Gimbal System for MOBI High Vacuum



Customer:

Colorado University
Laboratory for Atmospheric and Space Phys
1234 Innovation Dr.
Boulder, CO 80303



A high precision motion system was required to operate in the MOBI Vacuum Chamber at a High Vacuum level for Laboratory for Atmospheric and Space Physics (LASP). The motion system consists of: 1 custom high precision linear slide used for vertical travel; 1 custom high precision linear slide used for horizontal travel; 1 high precision rotation stage that provides yaw motion; and 1 high precision tilt stage that provides pitch motion. Key specifications: vacuum 1×10^{-8} torr; vertical slide 362 mm; horizontal slide 368 mm; tilt $\pm 18^\circ$; rotation full 360° . ADC wrote the control software and operator interface to debug and test the MOBI system for factory acceptance.

