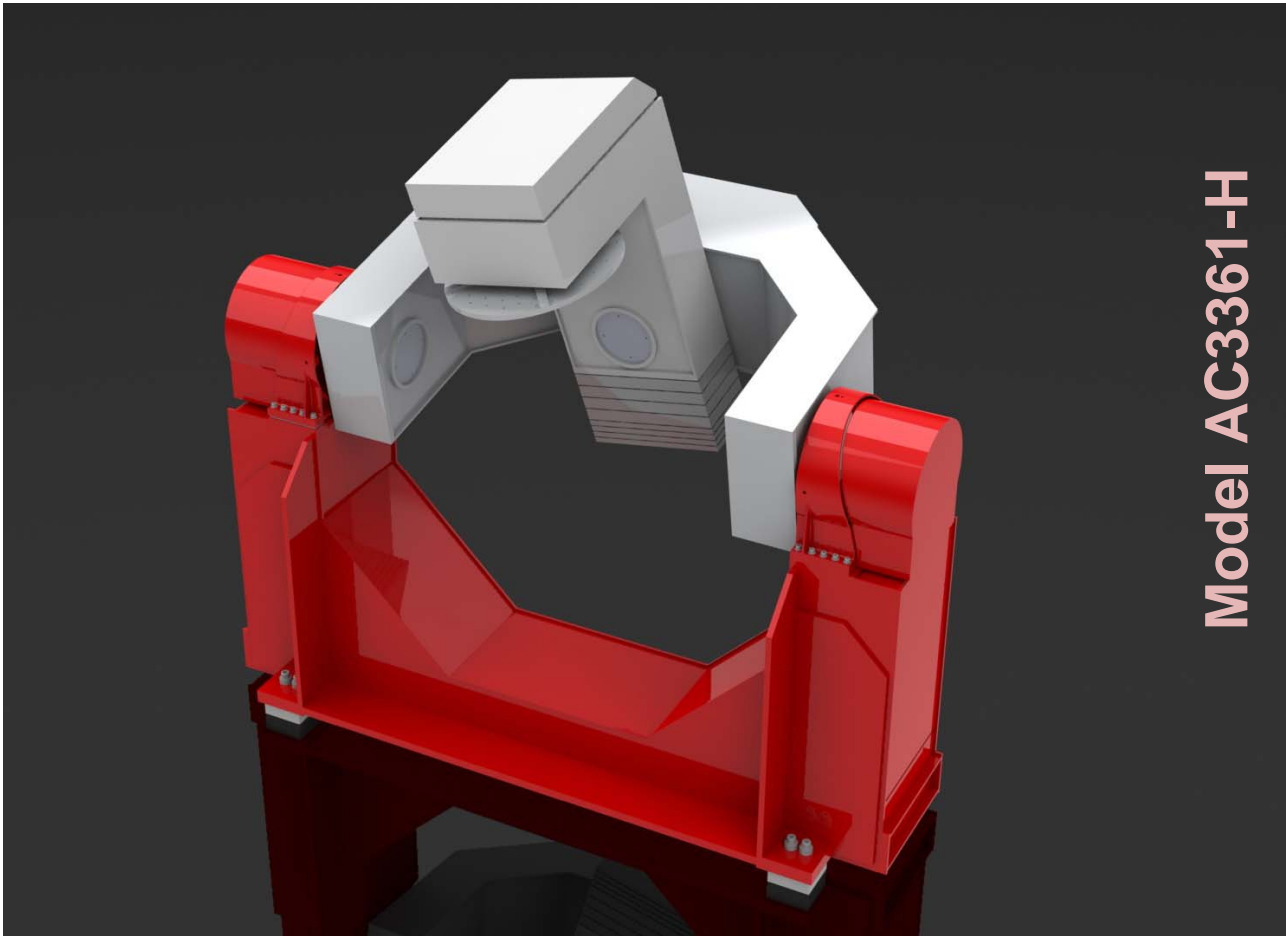


Three-Axis Motion Simulator Model AC3361-H



The AC3361-H is designed to accommodate gyro-stabilized optical pods such as FLIRs, target designators or camera systems. The large inner axis (yaw) platform supports the payload or Unit Under Test (UUT). To keep the test article's focal point at the axis intersection a large offset is necessary. The Harmonic drives are chosen for their low backlash, high gear ratio and compact size.

Electrical access to the UUT is performed through twist cables. Optionally, slinging assemblies can be used in the elevation and azimuth axes which would enable continuous rotation. A wide variety of slinging capsule designs and wiring schematics are available.

The ACUTROL[®] 3000 controls the table. The digital controller has a touch sensitive operator interface and scalable analog input/output interface. Programmable Event Pulses can be used for calibration and synchronization with external computers or test equipment. Optionally, real time interfaces can be added to the standard digital interfaces; Ethernet (TCP/IP) and IEEE-488 (GPIB).

Dimensions	Height, max	mm	2450
	Length	mm	2800
Unit Under Test (UUT)	Payload, nominal	kg	120
	Payload, diameter	mm	600
	Payload, height	mm	800
	Offset FOV to table top	mm	500

Specification Summary

	Roll (inner)	Pitch (middle)	Yaw (outer)
Dynamic performances			
Angular freedom	+/- 15°/s	+/- 11°/s	+/- 45°
Positioning accuracy	15 arcsec RSS	15 arcsec RSS	15 arcsec RSS
Rate peak	35°/s	35°/s	35°/s
Inertia, no load	2 kgm ²	20 kgm ²	20 kgm ²
Inertia, with load	7 kgm ²	50 kgm ²	50 kgm ²
Acceleration, with load	45°/s ²	12°/s ²	3°/s ²

Options

- Various Slipping configurations upon request
- Different Torquers upon request
- Special UUT adapters/interfaces

Installation requirements

- 3 x400VAC +/-8% with ground (PE; no neutral required), 50/60Hz, 25Amps fused.

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