

Two-Axis Motion Simulator Model AC2255-RS



The model AC2255-RS has been designed to test missiles and missile seekers that operate in the Infra-Red (IR) spectrum. A high speed Roll Barrel supports the missile. The Roll Barrel can be moved in azimuth. Electrical sliprings at the rear of the Roll Barrel provide access for the necessary facilities of the missile seeker.

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, the standard digital interfaces, Ethernet (TCP/IP) and IEEE-488 can be supplemented with real time reflective memory interfaces SCRAMNet or VMIC. For more details, please refer to the ACUTROL[®]3000 datasheet.

Dimensions	Height, max	mm	1500	
	Height of axis intersection	mm	1300	
	Width across simulator	mm	1330	
	Base dimension	mm	500x500	
	Table top diameter	mm	450 (60xM6 helicoil)	
	Weight approximate	kg	270	
	Control Console (lxwxh)	mm	650x800x1940	
	Weight Control Console	kg	320	
Unit Under Test (UUT)	Payload weight	kg	20 (nominal)	
	Clearance envelope	mm	160 x 200 (ØxH)	
	Slipring Roll	twisted pair	2	160V DC, 10A
		twisted pair	11	48V DC, 10A
		space/mil/single	9/2/52	48V DC, 10A
		100 ways	Total	

Mech. specifications	Inner Axis (Roll Barrel)	Outer Axis (Azimuth)
Orthogonality	+/-5 arcsec	
Wobble	3 arcsec	3 arcsec
Dynamic performances		
Angular freedom	Continuous	+/- 15°
Positioning accuracy	36 arcsec RSS	
Rate Peak	7200°/s	60°/s
Rate stability	0.01%	
Acceleration (20kg load)	900°/s ²	200°/s ²

Options

- Various Slipring configurations upon request
- Different Torquers upon request
- Roll Barrel Offsets according to customer's needs
- Gaseous access to UUT upon request

Installation requirements

- 3 x400VAC +/-8% with ground (PE; no neutral required), 50/60Hz, 16Amps fused.

Packing details (approximate)

- Box 1: brutto 500 kg / netto 270 kg, 175 x 90 x 185 cm
- Box 2: brutto 420 kg / netto 280 kg, 100 x 85 x 235 cm

Delivery time

- 9 months average

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