

Virtual EL/AZ positioner

AL-9002

This unique dual-axis positioner is particularly suited for testing direction-sensing antennas. The virtual elevation axis enables rotation of the DUT around its phase center, placing the mechanical support system invariably behind the DUT. This feature maintains the center of the DUT in one place, while eliminating scattering and interference from the positioning structure.

AL-9002



Applications

- Automated radar application subsystems
- Far-field & near-field antenna measurements
- Radome testing
- OTA testing
- Indoor use

Product Highlights

- Virtual elevation axis
- No interference from structure on DUT measurement results
- Angular positioning accuracy
- Low backlash design
- Closed loop servo control

Specifications – Performance Series Virtual EL/AZ Light Duty Positioners

PARAMETER	UNITS	POSITIONER MODELS
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AL-9002-1

Dimensional Drawing Number	DCD	220-0774
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OPERATIONAL

Bending Moment (from interface plate)		ft-lbs	14.5
		kg-m	2
Load on Interface Plate		lbs	22.1
		kg	10
Drive Power	Azimuth	hp	1/8
	Elevation	hp	1/8
Nominal Speed	Azimuth	deg/sec	12
	Elevation	deg/sec	3
Standard Angle Transducer Format			
Standard Accuracy ¹	Azimuth	deg	± 0.03
	Elevation	deg	± 0.05
Travel	Azimuth	deg	± 200
	Elevation	deg	± 45

PHYSICAL

Height at 0° Elevation	in	53
	mm	1,345
Weight	lbs	386
	kg	175
DUT Interface Size	in	10.35 x 8.66
	mm	263 x 220

ENVIRONMENTAL

Operating Temperature	-4° to 140° F (-20° to 60° C)
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¹ Unless otherwise specified, incremental encoder EN001 supplied in these models is standard.

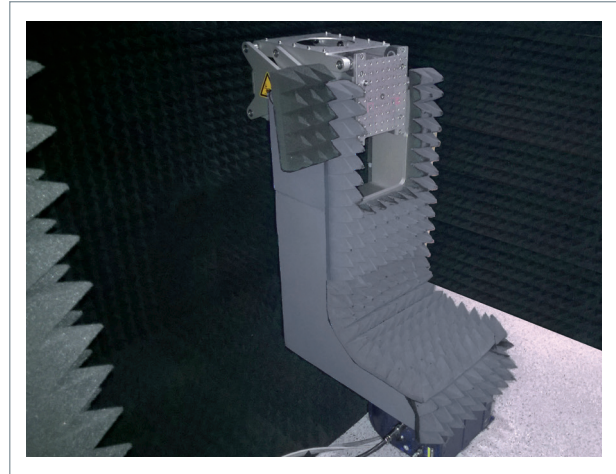
Supplied Accessories

Digital Documentation Set

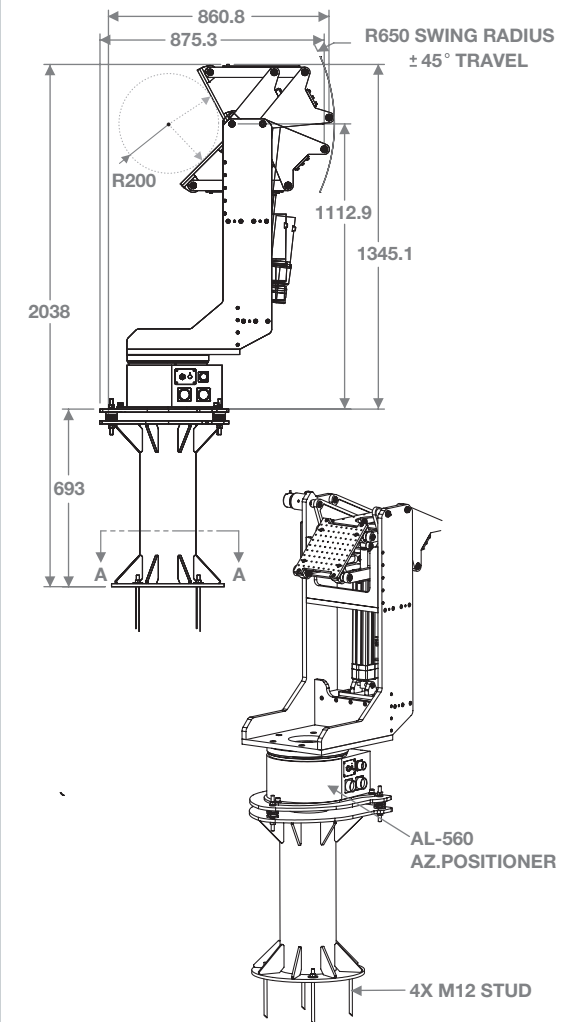
User Manual (installation, setup, operation & maintenance)

Technical Notes

1 All accuracy data is based on no-load conditions.
Contact MVG-ORBIT/FR for accuracy under load conditions.



Dimensional drawing



Contact your local sales representative for more information
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www.mvg-world.com/positioners