AvL TECHNOLOGIES **ANTENNA POSITIONERS**



	<u>Model 1220</u>	<u>Model 1520</u>	<u>Model 1820</u>	Model 2420
Primary Drive - Roto-Lok® Az/El Secondary Drive Az/El Positioning Accuracy	Zero Backlash Low Backlash	Zero Backlash Adj. Backlash		Zero Backlash Adj. Backlash
System Backlash	.0204°	.002006°	.002006°	.002006°
Absolute Available	.02 to .3°	.02 to .3°	.02 to .3°	.02 to .3°
Resolution Available	.01 to .1°	.01 to .1°	.01 to .1°	.01 to .1°
<u>Azimuth Axis</u> Range	400°	240°	270°	400°
Drive Speed (deg/sec)	.1 to 10	.1 to 10	.1 to 10	.1 to 10
Capacity at 1° /sec (ft-lbs)				
Maximum	650	1,465	1,000	2,000
Drive Continuous	300	255	550	1,000
Drive Peak	500	456	830	750
Stiffness (ft-lb/rad.)	1.5 x 10^4	9 x 10^4	7.5 x 10^4	1.5 x 10^5
Elevation Axis				
Range				
Standard	0°-160°	0°-110°	0°-160°	0°-160°
Optional	-5°-185°	-30°-160°	-5°-185°	-5°-185°
Drive Speed (deg/sec)	.1 to 5	.1 to 5	.1 to 5	.1 to 5
Capacity at 1°/sec (ft-lbs)	4 000	0.400	0.750	
Maximum	1,200	2,400	2,750	8,000
Drive Continuous Drive Peak	500 650	1,800	1,500	3,200
Stiffness (ft-lb/rad.)	5 x 10^4	2,500 1.1 x 10^5	2,200 1.5 x 10^5	5,000 4.2 x 10^5
Add Third Axis to get	Model 1230	Model 1530	Model 1830	Model 2430
Roll/Polarization Axis	MOUCH 1200			model 2400
Range	400°	400°	270°	400°
Drive Speed (deg/sec)	.1 to 5	.1 to 5	.1 to 5	.1 to 5
Capacity (ft-lbs)				
Maximum	650	650	650	650
Drive Continuous	300	300	300	300
Drive Peak	500	500	500	500
Positioning Accuracy	0.3°	0.3°	0.3°	0.3°
Stiffness (in-lb/rad.)	1.5 x 10^4	1.5 x 10^4	1.5 x 10^4	1.1 x 10^5
Standard Drive Motors	24 VDC	36 VDC	36 VDC	36 VDC

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