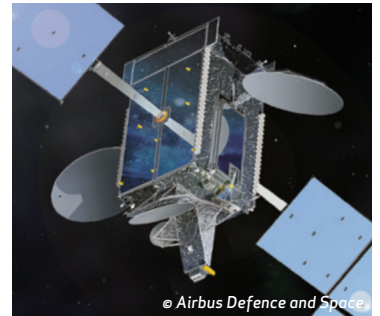


LINEAR ACTUATORS

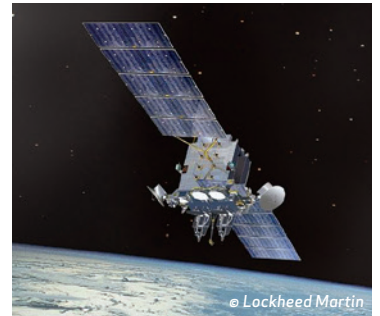


These Linear Actuators use a ball screw to translate the rotary motion of a brushless DC motor to linear output motion. The torque transmitted to the ball screw is amplified through a helical gear transmission. Each motor is a 3-phase, multi-pole, permanent magnet, brushless DC design. Position is monitored through a linear potentiometer integrated into each of the units. The unit shown has non-jamming stops at the full extend and full-retract positions. Thermistors, heaters and thermostats could easily be incorporated into these designs.

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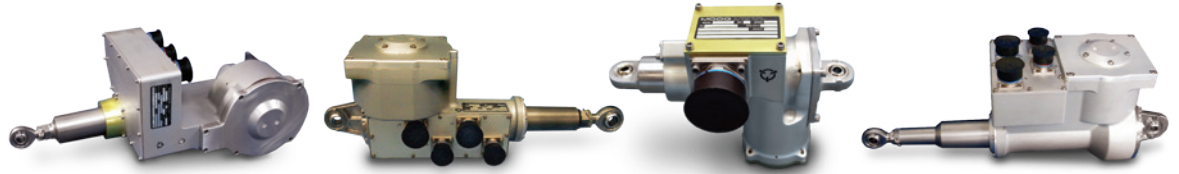


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LINEAR ACTUATORS

STANDARD PERFORMANCE CHARACTERISTICS

Parameter



Model	Model-S	Model-R	Model-N	Model-F
Resolution (inch)	0.00047	0.00094	0.0008	0.00094
Stroke (inch)	5.50	4.64	0.870	3.675
Operating Temperature Range	-50C to 80C	-50C to 80C	-50C to 80C	-50C to 80C
Mass	16.5 lbs	18.2 lbs	3.9 lbs	18.0 lbs
Force @ Maximum Speed	3,500 lbf @ 1.10 in/sec	2,000 lbf @ 4.67 in/sec	180 lbf @ 0.540 in/sec	2,200 lbf @ 3.80 in/sec
Maximum Force	4,670 lbf @ 0.25 in/sec	5,200 lbf @ 0.47 in/sec	500 lbf @ 0.110 in/sec	3,250 lbf @ 0.89 in/sec
Maximum Backlash and Hysteresis	0.010 inch	0.010 inch	0.010 inch	0.010 inch
Maximum Current	20 A	30 A	30 A	30 A
Axial Stiffness	295,000 lb/in	295,000 lb/in	25,000 lb/in	295,000 lb/in

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