

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.









LINEAR ACTUATORS

| STANDARD PERFORMANCE CHARACTERISTICS | | | | |
|--------------------------------------|-------------------------|-------------------------|------------------------|-------------------------|
| Parameter | Reve of | | | |
| 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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