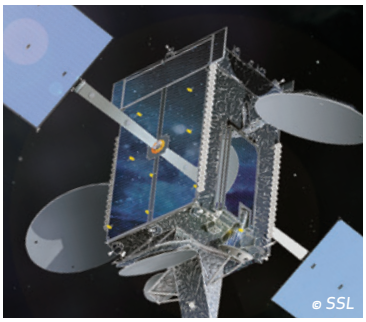
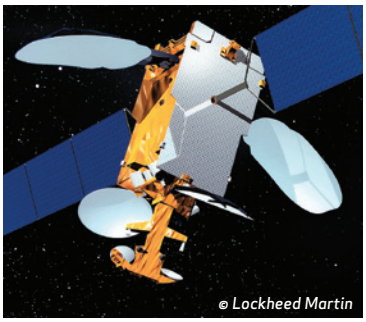
MODEL TYPE 1 ROTARY INCREMENTAL ACTUATOR

The Moog Type 1 rotary incremental actuator is a compact, closely integrated design made up of two key elements, a motor and a harmonic drive speed reducer. The motor is a small angle permanent magnet stepper with high holding torque. The harmonic drive speed reducer offers a large reduction ratio, high load capability, low weight, zero backlash and high torsional stiffness. Coaxial nesting of the motor and harmonic drive elements allows use of large, high capacity output bearings and gives the unit a low profile geometry.





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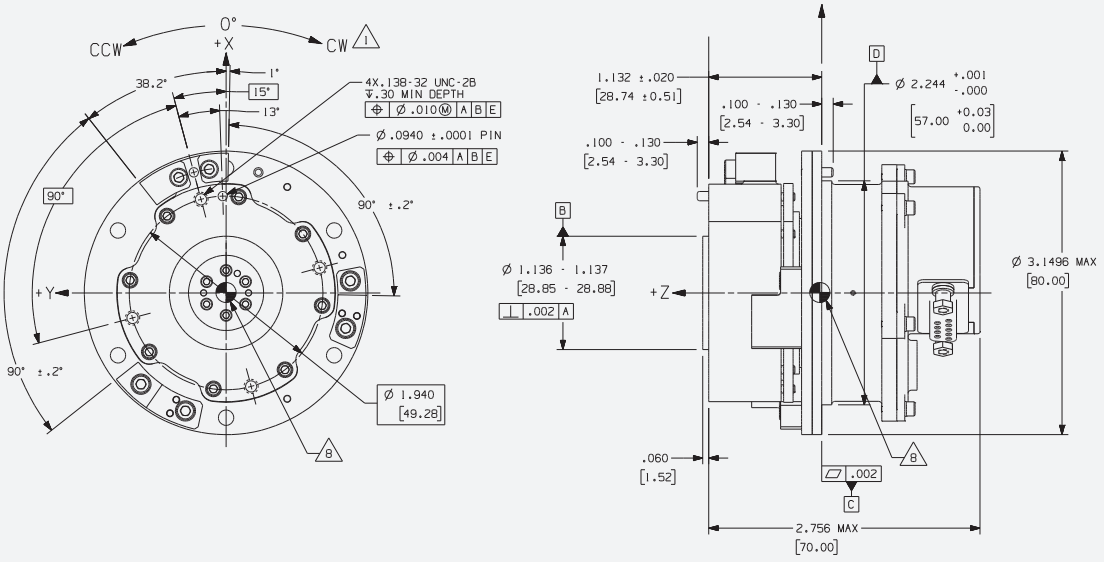
MODEL TYPE 1 ROTARY INCREMENTAL ACTUATOR

SPECIFICATIONS

Parameter	Units	Basis	Data
Output Step Angle	Degrees	Standard	0.0375
Steps per Revolution	Steps	Standard	9600
Max. Output Step Rate	Steps/sec (Deg/sec)	Maximum	400 (15)
Backlash	Degrees	Maximum	Zero
Operating Temperature Range	°C	Maximum	-50 to +80
Torsional Stiffness	lb-in/Rad	Minimum	20,000
Bending Stiffness	lb-in/Rad	Minimum	75,000
Axial Stiffness	lb/in	Minimum	500,000
Radial Stiffness	lb/in	Minimum	500,000
Output Load Capability Axial	lbf	Nominal	1,080
Tranverse	lbf	Nominal	1,080
Moment	Lb-in	Nominal	415
Output Torque	Lb-in	Minimum	70
Unpowered Holding Torque	Lb-in	Minimum	20
Powered Holding Torque	Lb-in	Minimum	70
Power	Watts	Maximum	4.5
Total Assembly Weight	Lb	Maximum	1.00

DIMENSIONS



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