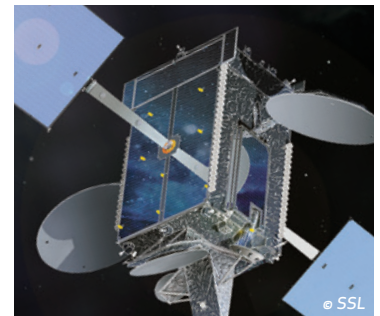


## ULTRA FINE ANGLE ROTARY INCREMENTAL ACTUATOR



Along with the standard Type 3 and Type 5, the Moog Type3-EF and Type 5-EF Rotary Incremental Actuators are new additions to the rotary incremental actuator lines. The design is based on a recently developed ultra fine step angle permanent magnet stepper motors which in combination with the standard harmonic drive gear reducers produces extra fine output step resolution. The new line of

actuator offers quiet operation, low weight, zero-backlash and high output torsional stiffness. All of the electrical elements, such as motors and position sensors, can be redundant with little or no change in actuator envelope.



# ULTRA FINE ANGLE ROTARY INCREMENTAL ACTUATOR

## SPECIFICATIONS

	Type 3-EF	Type 5-EF
Output Step Angle	0.0015	0.001
Steps Per Revolution	240,000	360,000
Transmission Ratio	160:1	200:1
Motor Step Angle (degree)	0.24	0.2
Max. Output Step Rate (pulses/sec)	1000	800
Max. Output Speed (deg/sec)	1.5	0.8
Running Torque (lb-in)	250	325
Un-powered Holding Torque (lb-in)	80	100



21339 Nordhoff Street, Chatsworth, CA 91311  
Sandra Browne - sbrowne@moog.com (International)  
Scott Reynolds - sreynolds@moog.com (USA & Canada)  
+1.818.734.6700 • www.moog.com



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@MoogSDG



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