

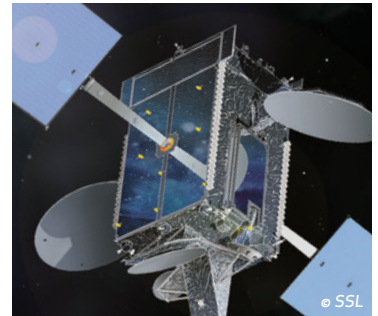
CRYOGENIC FINE POSITIONING LINEAR ACTUATOR



The Cryogenic Fine Positioning Actuator product is designed to produce very small linear output steps using conventional actuator technology. Actuation is accomplished by using a small angle stepper motor coupled to a large gear reduction transmission. The linear excursion is accomplished with a fine/leadscrew mechanism.

AVAILABLE FEATURES

- High resolution and accuracy
- Redundant, 3-phase stepper motor
- High gear ratio gear transmission
- Sealed bellows assembly at the output
- Drive components based on existing heritage hardware
- Designed to operate in Cryogenic space environment
- Pre loaded 2 piece output member



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SPECIFICATIONS

Physical Characteristics

Dimensions	1.4 in. diameter and < 6.6 in. length
Weight	< 1.2 lbs

Performance

Range of Travel	0.45 inch
Position Accuracy	47 micro inches over 7200 linear steps
Linear Resolution	17 micro-inches
Linear Velocity	0.0035 inch/sec (nominal)

Power Requirements

Power Consumption	8 watts max.
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