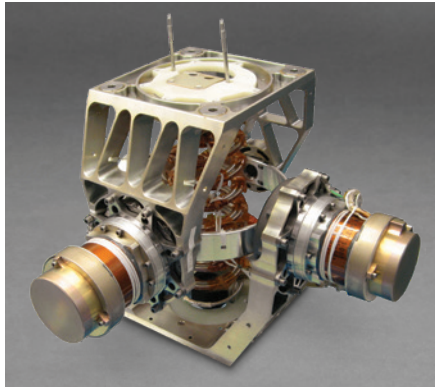


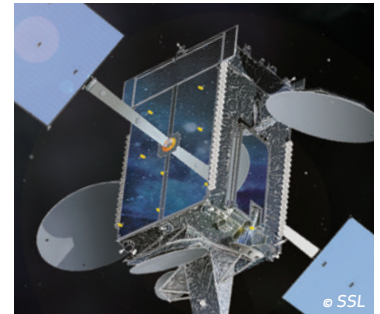
TWO AXIS THRUSTER GIMBAL XENON PROPELLANT



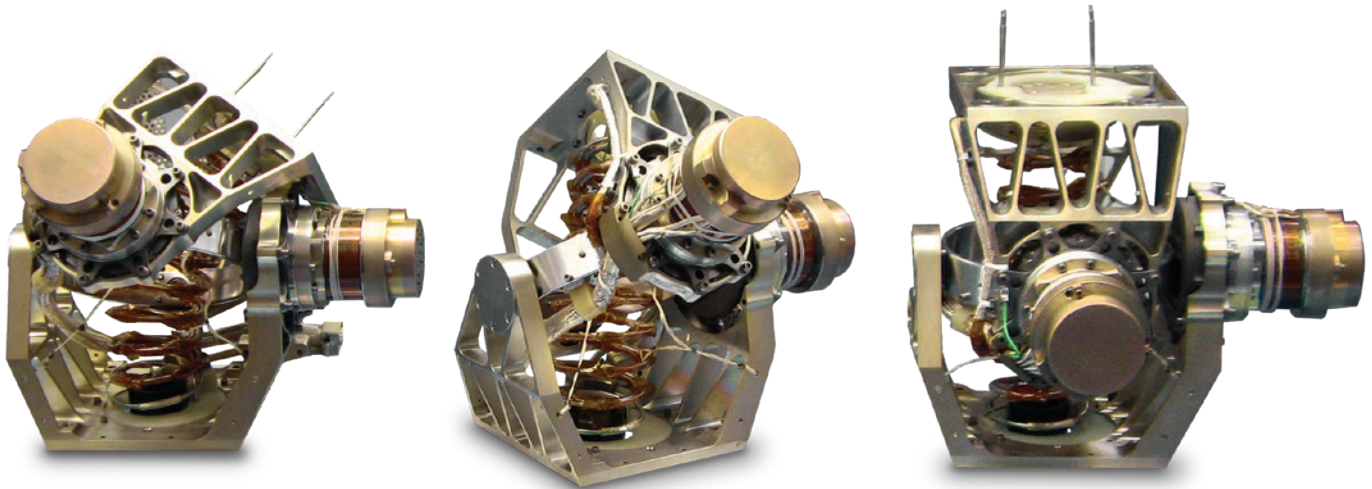
The Thruster Gimbal has been qualified and offers significant flight heritage.

ADVANTAGES

- 15 year on-orbit design life
- High resolution and accuracy
- Dual axis gimbal driven by rotary actuators for cross-axis positioning
- High reliability space qualified stepper motors with Harmonic Drive® transmission
- Potentiometer for position telemetry
- Xenon propellant fuel lines with heaters
- Available with MLI blanket



TWO AXIS THRUSTER GIMBAL XENON PROPELLANT



SPECIFICATIONS

Physical Characteristics

Dimensions	8.75 x 5 x 5 inches
Weight	< 11 lbs
Payload Weight	50 lbs (externally supported)

Performance

Total Rational Range of Travel	$\pm 36^\circ$ in both X and Y axes
Angular Resolution	0.01125°/step
Angular Velocity	3°/sec minimum
Incremental Angular Accuracy	$\pm 0.003^\circ$ maximum
Absolute Angular Accuracy	0.03° maximum
Operating Temperature Range	-20° to +80°C

Power Requirements

Power Consumption	22 watts max. per actuator/axis
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