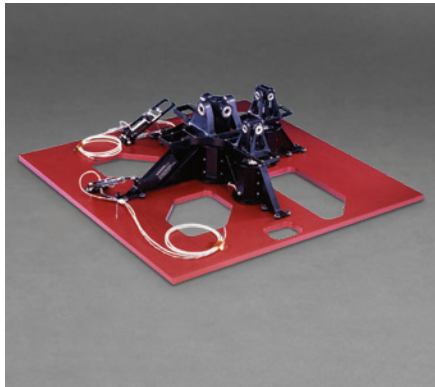




ION THRUSTER GIMBAL

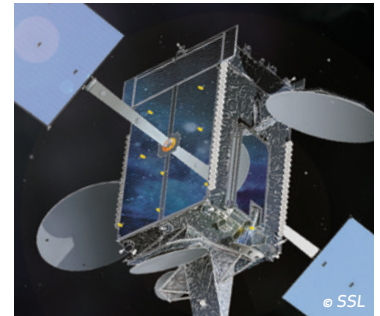


Designed and manufactured by Moog, Chatsworth Operations, this thruster gimbal addresses the growing demand for dedicated thruster gimbals. These gimbals provide vector-pointing capabilities for various propulsion thruster configurations, including xenon, arc-jet and NTO/MMH etc.

Flight Heritage: MUSES-C (Hayabusa)

ADVANTAGES

- Light weight
- 15 year on-orbit design life
- High resolution and accuracy
- Dual axis gimbal actuated by linear actuators for cross axis positioning capabilities
- High reliability space qualified stepper motor's with lead-screw actuation for positioning



ION THRUSTER GIMBAL

SPECIFICATIONS

Physical Characteristics

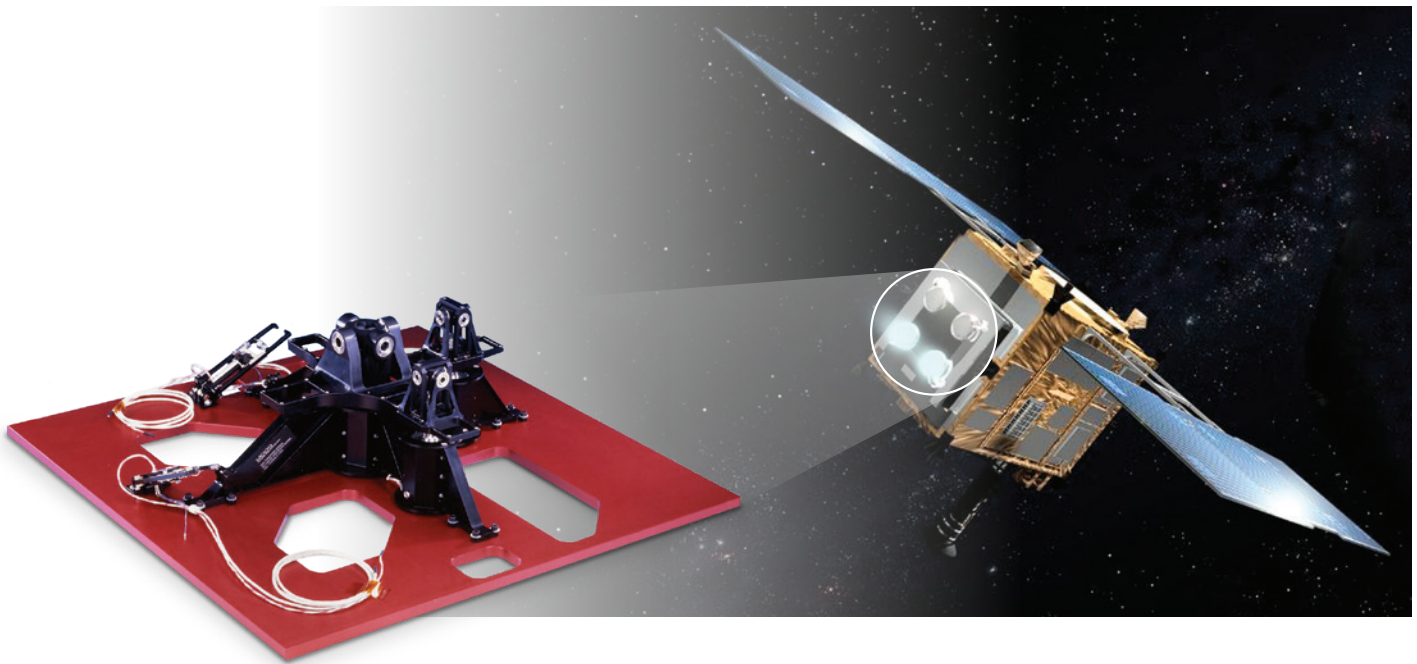
Dimensions	16 x 16 x 7 inches
Weight	< 31 lbs (including launch locks)
Payload Weight	44 lbs
payload Size	24 x 24 inches

Performance

Total Rational Range of Travel	$\pm 5^\circ$ in both X and Y axes
Angular Resolution	0.00047"/step
Angular Velocity	0.07"/sec minimum
Angular Accuracy	< 0.08°
Operating Temperature Range	-20° to +80°C

Power Requirements

Power Consumption	< 5 watts max. per actuator/axis @ ambient with 290 mA current
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