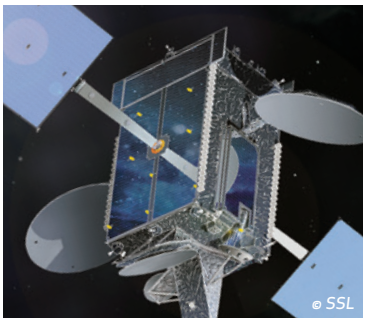
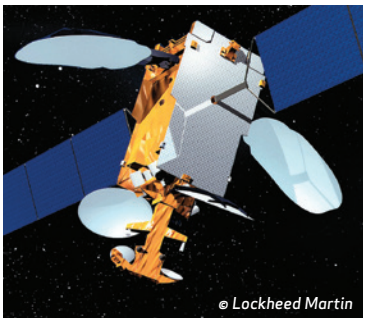
ENHANCED POINTING GIMBAL ASSEMBLY (EPGA)

Moog's Next Generation Enhanced Pointing Gimbal Assembly (EPGA) has successfully completed qualification testing. The EPGA is specifically designed for applications requiring high torque, high stiffness, load carrying capability, and small increment output step size. In order to accommodate a wide variation of customer needs, Moog has successfully qualified two variations of the EPGA.





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ENHANCED POINTING GIMBAL ASSEMBLY (EPGA)

SPECIFICATIONS

	Data	
	3-Phase Motor Configuration	4-Phase Motor Configuration
Motor Step Angle (Degree)	1	1.5
Gear Transmission Ratio	500	500
Output Step Angle (Degree)	0.002	0.003
Nominal Running Torque (lb-in)	950	400
Unpowered Holding Torque (lb-in)	520	410
Nominal Torsional Stiffness (lb-in/rad)	200,000	200,000
Nominal Moment Stiffness (lb-in/rad)	1,000,000	1,000,000
Operating Temperature Range C	-45 to +95	-20 to +95
Volume (inches)	5.8 x 6.57 x 11.93	
Mass (pounds)	>13.5	
Power Consumption/per axis (watts)	>10	>14
Electrical Redundancy	Yes	Yes

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