



# MOTION TECHNOLOGIES Pty Limited

## Solar panel linear actuators



Model	GRA-1000	GRA-1100	GRA-1500	GRA-2000	GRA-3000	GRA-4000	GRA-6000
Thrust, rated, N	1,500	1,500	2,500	4,500	6,000	8,000	12,000
Thrust, max, N	2,000	2,000	3,000	7,000	8,000	10,000	15,000
Static thrust, N	4500	4500	9,000	12,000	15,000	18,000	25,000
Limit Switches	Yes						
Reed sensor	Yes						
Potentiometer sensor	n/a			Optional			
Optical sensor	Optional						
Hall sensor	n/a			Optional			
Self locking	Yes						
Acme screw	Yes						
Bronze lift nut	Yes						
Ball screw	n/a				Optional		
Dust & water resistant	Yes						IP65
Enhanced anti-rust treatment	Yes						
Standard strokes available (mm)	305/460/610		305/460/610/915		460/610/915/1060		
Voltage, dc	12/24/36						
Load current, amps	<1.8	<1.8	<2.0	<3.0	<4.0	<5.0	<6.0
travel rate, mm/sec	5.8	5.8	5.4	2.8	2.0	3.0	1.2
Duty Cycle	20%						
Rod mount bracket	Pressed steel	Diecast alloy	Pressed steel			Trunnion	
Rod end, industrial type	Yes						
Bellows boot	Optional						
Rubber motor/gearbox cover	Optional						
Clutch & motor thermal protection	n/a						Yes