

# ESPA Class SADA

## Description

Solar Array Drive Actuator designed to accommodate ESPA Class spacecraft. Design derived from heritage pointing actuator built for NASA/JPL Curiosity Rover. Modular design accommodates slip ring or twist capsule power/data transfer options

Up to 1.7 kW power transfer @ 28V with Slip Ring Option



Specification	Data
Mass (Slip Ring Option)	1.0 kg
Output Step Angle	0.012 deg.
Steps/Revolution	30000
HD Gear Ratio	100:1
Potentiometer Feedback	>350 deg. elec. travel
Torsional Stiffness	339 Nm/rad
Power Throughput Capacity	Up to 1.7 kW @ 28V
Output Torque (continuous)	1.8 Nm
Holding Torque (powered)	1.5 Nm
Holding Torque (unpowered)	0.8 Nm
Operating Temperature Range	-20 to +75°C
Twist Capsule (other sizes avail.)	32 Channel 2.0 A/Circuit
Range of Motion	+/- 180 deg.
Slip Ring	
Transfers	32x, 2.2a each
Size (Ø x Len.)	
SADA	Ø75 x 147 mm

## Contact

Honeybee is ISO9001:2000 and AS9100C certified.

**Honeybee Robotics**  
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