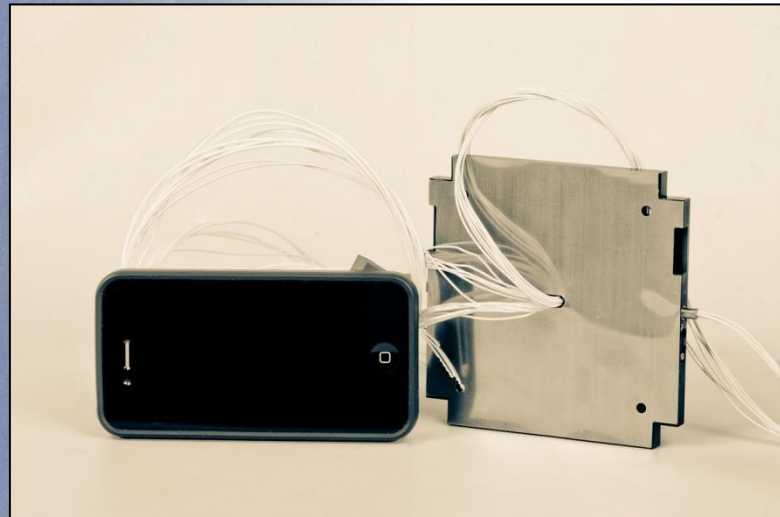


## Description

Nano-class Solar Array Drive Actuator designed to accommodate standard Cubesat architectures. Power transfer can accommodate +/-180 degree rotation with standard wire wrap or continuous rotation with an integral slip ring. Embedded drive electronics can be configured for I2C or RS422 interface and include release mechanism circuitry.

Specification	Data
Mass (Slip Ring Option)	180 grams
Output Step Angle	0.009 deg.
Steps/Revolution	40960
Backlash	<3 deg
Power Throughput Capacity	Up to 550W @ 28V
Output Torque (continuous)	35 mNm
Holding Torque (powered)	30 mNm
Holding Torque (unpowered)	30 mNm
Operating Temperature Range	-30 to +85°C
Wire Wrap	7 Channel per wing 2 wings 1.4 A per channel
Range of Motion	+/- 180 deg.
Slip Ring	Continuous rotation
Transfers	10 channels per wing 2 wings 0.5 A per channel
Launch Lock Release Circuits	2x, 4A maximum
Size	100 x 100 x 6.5 mm
Radiation Tolerance	10krad



## Contact

Honeybee is ISO9001:2000 and AS9100C certified.

**Honeybee Robotics**  
**Spacecraft Mechanisms Corp.**

Erik Mumm, VP – Director of Flight Systems  
[mumm@HoneybeeRobotics.com](mailto:mumm@HoneybeeRobotics.com) ph. 720-340-4491

