# Media Release

**February 15, 2018**

## Brushless DC motor with temperature sensors.

**When prototyping with Brushless DC motors information is key to product success.**

Pictured here is a highly customised brushless DC motor developed for special aerospace applications. The 200W nominal 30mm diameter has had a special winding wound to suit the unique requirements of the application where the motor needs characteristics for driving and generation. It is a 4 pole topography with a sealed stainless steel body and welded flanges. The application for this brushless DC motor requires operation for very short bursts of power at over 500W. To facilitate testing that gives design engineers absolute confidence the winding will never exceed its thermal limits a platinum thin film temperature sensor has been fitted in contact with each phase. This allows the R&D staff to slowly increase the duty cycle whilst monitoring temperature and develop controller functionalities around the thermal limits. In addition the motor has been assembled with a planetary gearhead that is quite special in itself. The gearhead ratio has been slightly adjusted to allow for smaller planetary gear diameters. The smaller diameters allow for an additional set of gears on the output stage increasing the torque capabilities. A special 2RS rubber sealed bearing has been incorporated along with a customer specified axial threaded bore in the middle of the shaft. At the rear of the motor is a 4,096 quad count encoder facilitating the smooth zero cogging motion control.

Contact maxon motor Australia for a tailor made system solution Ph: +61 2 9457 7477.

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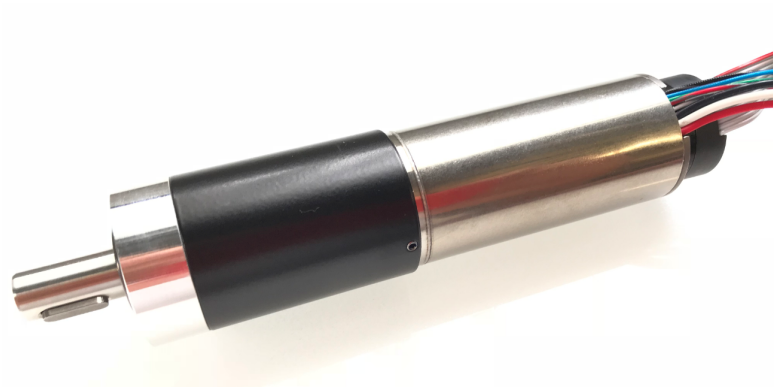
The media release is available on the internet at: www.maxonmotor.com.au



*Brushless DC gear motor with winding temperature sensors © maxon motor*

**maxon motor Australia Pty Ltd**
Unit 1, 12-14 Beaumont Road
Mt Kuring-Gai NSW 2080
Tel: +61 2 9457 7477
Fax: +61 2 9457 8366
info.au@maxonmotor.com
www.maxonmotor.com.au
Twitter @maxonmotoraust