Media Release

14 May, 2015

Brushless DC motors with inner rotors reach their highest power levels.

New from maxon motor is the 14pole high torque 40mm Brushless DC inner rotor motor.

This brushless DC motor with dimensions of just 40mm x 56mm can produce continuous torque levels of 232 mNm at over 7000rpm. The new length release at 100 watts brings this line of multipole brushless motors a third power option including a 50W and 70W version. There are 9V, 18V, 36V and 48V nominal DC windings available. The 50W and 70W motors have a maximum speed of 10,000rpm and the 100W motor has a maximum speed of 8000rpm. It is possible to use the speed constant of the motor (commonly known as KV) to configure the motor for the speed requirement of the motors application. For example: using the 18V winding of the 70W motor and a system voltage of 24V the motor will have a no load running speed of just over 10,000rpm this speed can then be controlled with one of maxon’s brushless DC servo amplifiers.

From factory automation and process control to medical robotics.

One of the most important factors in modern machine design is power to weight ratio and the new brushless DC motors from maxon are some of the best performing to date. Especially when comparing the torque of the motor with its diameter. The motors are available with tiny high resolution encoders and compact planetary gears. Engineers at maxon motor Australia are able to help with the configuration of motor, gearhead, encoder and control units to suit the specific needs of your application.

Contact maxon motor Australia on +61 2 9457 7477.

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

The 40mm diameter brushless DC motor.