

300 6mm diameter brushless DC motors.

Small brushless DC servo motors for prosthetics, rehab and haptics.

Pictured here is a recent shipment for an Australian customer of 6mm diameter brushless DC servo motors that are destined for use in a medical rehabilitation application. This motor gearhead and feedback combination features a high motor speed capability of up to 100,000rpm on very low 3V, 6V and 12V winding options. There is also the possibility to customise maxon's coreless winding to suit the desired speed range. The 6mm diameter planetary gearhead can reduce the speed and increase the torque of the motor by up to 854 times. The motor is fitted with a hall sensor network for feedback that gives a state change every 60 degrees. Considering both the speed of the motor and the increased resolution from the gearbox reduction this equates to a high resolution control over the motor. Fitted with multiple stainless steel ball bearings the motor and gearhead offer high radial and axial load levels and the motor preloading controls excessive resonance at such high speeds. In each application the winding constants and the gearhead ratios must be carefully considered to best suit the application.

For more information please contact + 61 2 9457 7477.

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



6mm high speed low voltage
brushless DC motor with planetary
gearhead.

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