

Custom DC motor for maximum power density.

New brushed DC motor design from maxon motor.

maxon motor Australia have configured a combination of brushed DC motor, planetary gearhead and digital incremental encoder with completely customised features for a prominent medical manufacturer and have produced it in 11 working days.

An interactive 3D model of the entire assembled combination showing all modifications and final production part numbers can now be generated within an hour of specification request along with data sheets showing the working points of the application. The new process eliminates large amounts of traditional internal procedures, with the robotic production line and parts procurement all linked together with the new design tool. The new motor pictured below shows a unique stepped planetary gearhead that uses a 26mm diameter on the high speed input stage and a 32mm on the high torque output stage. Focusing the wear and strength attributes by placing components specific to their role also increases the motors power density. In order to allow for the full use of shaft length that is tailored for the application, a new process of laser welding the inner race of the output bearing directly to the shaft material has been used over the traditional methods of c-clips and shaft collars. This is also naturally stronger than glue and press fit methods. The motor is capable of producing over 10,000rpm and the gearhead up to 12Nm with ratios to 1526:1. Zero cogging and linear characteristics combined with new encoder resolutions up to a staggering 65,536cpt open new position control possibilities for automation, tool and robotics applications.

Contact maxon motor Australia for assistance. Ph: +61 2 9457 7477.

Length of this press release: 276 words

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



New brushed DC motor design from maxon motor © 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](https://twitter.com/maxonmotoraust)