

Brushless DC motor with two gearheads.

maxon motor Australia delivered a company first. A right angle spiroid and planetary inline gearhead fitted either end of a brushless DC motor.

Demonstrating maxon motors Australia's ability to customise motor and gearhead combinations to suit demanding applications, this combination represents a world first delivering calculated ratios for a specific X,Y movement.

Starting with the right angle gearhead. It is produced in the USA and has a high stiffness proportional to its compactness and low weight. Further specifications on the gearhead are: intermittent torque up to 9.4Nm, Helicon tooth form, 478N radial load and high quality combinations of needle and ball bearings.

Moving to the brushless DC motor which was manufactured in Switzerland and was selected because there was a requirement for zero shaft cogging (a motor without any mechanical detent), the 22mm brushless DC motor provides smooth controllable speed from very slow to a maximum of 18,000 rpm (restricted by gearhead input requirements). The Brushless DC motor delivers 25W at 12V. The motor has an all stainless steel construction and an internal hall sensor network for accurate speed regulation. On the rear side of the motor where normally you would see an encoder or another type of feedback device, a special mounting adaptor has been machined to fit a 22mm Ceramic Planetary gearhead from Germany. By adjusting the gearhead ratios it was possible to map the exact shape of an x,y scan and the number of motor revolutions determines the size.

Developed for use in a medical hand tool, the dual gearhead and motor combination has a low weight and can be precisely controlled. The highest quality has been achieved by maxon motor in Australia sourcing components from manufacturers in three countries, having then customised and assembled for the end user located in New Zealand. A truly global solution.

For further information or assistance please do not hesitate to contact maxon motor Australia.

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



DC motor with two gearheads. Inline planetary and right angle bevel © 2016 maxon motor Australia.

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