High Speed Brushless DC motor and planetary gearbox.

120W, 100,000rpm DC motor and gearbox for medical, robotics and handheld devices.

This new design of brushless DC motor and high speed planetary gearbox incorporates some of the latest technology from the talented R&D engineers at maxon motor. Some of the lowest ever levels of noise and vibration have been achieved with the specially balanced rotor and the detent free construction, even at the high speed levels that this brushless motor can attain. The planetary gearbox is also ground-breaking in the area of high speed power transmission with an input speed capability of 40,000rpm. It is the high power, low noise and vibration levels of this DC motor that makes it particularly suitable for hand tools. Combine this with sterilisation tested at 1000cycles at 135degrees and 2.3Bar without any need for dismantling make medical device hand tools an ideal application for this motor and gearbox drive system. There are 7 different windings and two power levels available for the motor and many different gearbox ratios allowing designers to select the products in a modular fashion to best suit the application requirements.

Contact an engineer in the Sydney office of maxon motor on +61 2 9476 4777 for application assistance.

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The media release is available on the internet at: www.maxonmotor.com.au
19mm High speed sterilisable gearbox.

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