High speed brushless DC motor – first of its kind.

The first electronically commutated 19mm brushless maxon DC motor with a sterilisable high speed planetary gearhead delivered in Australia.

You might say it is just the start of things to come; A brushless DC motor delivering 120W of power from only 19mm diameter and achieving speeds of up to 100,000rpm. To top it off – sterilisable 1000 times. The particular unit shown here has an intended use in a medical application that requires (when fitted with a threaded linear transducer) large amounts of force with a low motor and gearhead weight. However the motor comes in both sterilisable and non-sterilisable forms. It can also be manufactured with or without hall sensors depending on the type of brushless motor controller being used. Whilst high speeds are perfectly suitable for dental tools and surgical hand tools, pumps and actuators for example need a lower speed and higher torque. Of the high speed motors available in the past a major limitation has been the ability to convert this into usable speed and torque for this type of application. Even the high spec ceramic planetary gearheads that have become available recently, typically only withstand input speeds up to 8000rpm and on rare occasions 12,000rpm. But now we see a true leap forward with the GP19M, achieving continuous input speeds of up to 40,000rpm, opening up many new application possibilities.

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