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— FOR IMMEDIATE RELEASE —

maxon's New BLDC Sterilizable Gearmotor EC 19 and GP 19M

High power up to 120 W, speeds up to 100,000 rpm, sterilizable 1000 times.

With its modular construction, this new brushless DC motor is available in three performance classes: the cost-optimized EC 19 at 60 Watt, the strong and high-speed EC 19 at 120 Watt and the sterilizable high-end version EC 19 at 120 Watt. The internals of the drives are responsible for their individual characteristics:

- The EC 19 at 60 W is equipped with a magnetic circuit that is designed for speeds of up to 80,000 rpm. The maximum continuous torque is 12 mNm and the motor contains no Hall sensors.
- The EC 19 at 120 W has been designed for speeds of up to 100,000 rpm and delivers a high continuous torque of 24 mNm. Versions with and without Hall sensors are available.
- The EC 19 Sterilizable at 120 W may be sterilized in an autoclave 1000 times. With a maximum permissible speed of 100,000 rpm and 24 mNm continuous torque, this drive also withstands high temperatures and harsh steam cycles. This is achieved through careful selection of materials and through protection of the components such as in the hermetically sealed rotor magnet.



With maxon motor's winding technology, it is possible to offer various voltage versions. The stator has been designed without slots. Therefore, no cogging torque occurs resulting in excellent control properties and extraordinarily smooth running. Together with an optimally balanced rotor, low-noise and low-vibration operation is easily achieved.

maxon's new sterilizable planetary gearhead, the GP 19 M is ideal for applications requiring very high speeds – input speeds of up to 40,000 rpm. To accommodate such high speeds, the toothing and materials have been especially designed to minimize friction. **A key demand placed on the material is 1000 sterilization cycles.** Worth noting is the no-need to disassemble the motor for the sterilization process. The new 19 mm servo motors are particularly suitable for surgical and dental devices, such as arthroscopic shavers and bone drills. There is also a focus on respirators and CAD/CAM spindle drives.

Click on the following link to view the specification on the [sterilizable EC 19 motor and GP 19M planetary gearbox.](#)

For more information, please contact:

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