

Introducing the new 4 mm micromotor and gearhead

maxon motor was challenged to deliver maximum power in the smallest possible space and the result is the EC 4 brushless motor.

The general problem with micro drives is that the power output is too low for the application, due to the physical dimensions. maxon increased the performance of this tiny motor using the latest winding technology, the most powerful magnets and optimum use of the air gap. Integrated encoders make it possible to fully utilise the motor potential, from a standstill. This is unique for motors of this size. maxon also incorporated a high quality gearhead to ensure optimum continuous running. High performance ceramics are used for the gearhead carrier to make the motor capable of high input speeds and drive torques. It is the ideal partner for the miniature ESCO 36/3 brushless motor controller.

The speed/torque gradient of the EC 4 is an impressive $50,000 \text{ rpm mNm}^{-1}$ with a continuous torque of 0.4 mNm. There are options on the windings and encoders as well as different reduction ratios on the new 4 mm planetary gearhead.

The motor is also available in two lengths.

- Short version with 0.5 W nominal power
- Long version with 1.0 W nominal power

The 4 mm brushless DC motor is a great fit for applications in the fields of micropumps, analytic and diagnostic devices, ophthalmic surgical devices, laboratory robots, endoscopes and anywhere where size is an issue.

The EC 4 platform sets new benchmarks with regards to technical possibilities and opens up future fields of application. Watch this space!

Contact maxon motor uk on 01189 733 337 or salesuk@maxonmotor.com to discuss your application requirements.

About maxon motor

maxon motor is the world's leading supplier of dc motors, brushless motors, gearheads and controllers. We offer high quality, innovation, competitive pricing and highly specialised solutions.

Where are maxon motors used today?

Aerospace
Robotics
Medical science
Industrial automation
Instrumentation & inspection
Communication
Surveillance cameras
Automotive
Consumer applications

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Maxon's motors, gearheads, encoders, brakes and controllers are all perfectly compatible and offer an almost unending number of possible combinations. The maxon modular system gives the ideal combination for the required application.

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