

EC 60 flat with MILE Encoder and Protection Class IP 54

Versatility, power, and robustness for flat motors have a name: «EC 60 flat».

The multitude of possible combinations makes the new EC 60 flat the ideal drive in a wide range of applications. Whether the focus is on high nominal torque, on high-dynamic positioning tasks with superb repetition accuracy, or on robustness and insensitivity against environmental conditions, the choice is all up to the end user.

Versatility: Various windings for battery-powered and industrial applications, flat design for small spaces.

Power: Nominal torque up to 319 mNm, iron-core with almost inexistent detent

Robustness: Radial load 100 N, protection class IP 54 (spray water), preloaded ball bearings, grounding connection, environmental conditions of -40 to +100°C.

The MILE encoder is used to make optimal use of the flat motor in high-precision applications and positioning tasks. Behind the abbreviation MILE hides Maxon's Inductive Little Encoder, the worldwide smallest inductive rotary encoder. Its operating principle is based on the detection of high-frequency inductivity which generates eddy current in an electrically conducting target.

The advantages of a high-frequency inductive method of measurement compared to traditional encoders are:

- High robustness towards dust or oil vapor, thus making additional protective measures, such as a cover, unnecessary.
- High speed.
- Insensitivity against interference pulses (for example from PWM controllers or motor magnets).

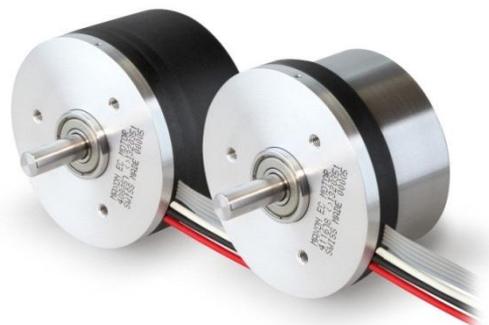
The EC 60 flat's extraordinary characteristics come into full effect in battery-powered mobile applications, as well as in the industrial field; for example in variable flow valve drives, in dialysis systems, or in direct drive centrifuges with extended service life and large radial loads.

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The media release is available as download on the Internet: www.maxonmotor.com

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