Brushless DC flat motors (BLDC Pancake motors) with integrated encoder.

The range of brushless flat motors from maxon motor have been widely adopted because of pancake form factor and torque ratings. Adding an encoder in the past has increased the overall length of the unit reducing this advantage. The integrated mile encoder has created a solution that maintains the motors low profile and includes high resolution encoder feedback.

The encoder operates by measuring the fields generated by eddy currents in a unique target disc. This offers improvements over traditional encoder technology in the form of environmental robustness, improved speed capabilities and an increase tolerance against external interference. Combine all the factors together and you have a product suitable for driving loads directly with high degrees of speed and position control in robotics and factory automation applications. There are three power levels 30w 50W and 70W in a 45mm diameter and also a high torque 90W version that is 90mm diameter. The 45mm diameter version is available with both PCB mounted connectors or a smaller footprint cable version. The new integrated encoder when used with a matching motor position control unit will control the unit to resolutions of up to 25,600qC per revolution.

For detailed information or application assistance call our Sydney office on +61 2 9476 4777.

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

50W brushless flat motor with integrated encoder.
90W brushless flat motor with integrated encoder.

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