Trend toward multipole brushless DC motors increases.

This 14 pole Brushless DC motor is one of the latest motor designs by maxon motor.

For almost any application from manufacturing equipment to medical devices, finding the correct balance on motor speed and torque is critical. The power density for brushless DC motors is not only improving but also the range of motors with different combinations of speed and torque. While a 2 pole brushless motor can give a high power level at a very high speed (an example being maxon motors 250W 25mm diameter 70,000rpm brushless DC motor); high speeds are often not able to be efficiently converted by planetary gearheads. Pancake style or brushless flat motors with external rotors (often called outrunners) are an excellent option for direct driving without the need for planetary gearheads, however application space constraints do not always allow for larger motor diameters. In steps the latest ECi motors that fill a sought after mid-point offering manageable speeds and very high torque levels for their diameter. The particular motor performance niche is achieved with a 14 pole inner rotor design. The example pictured is only the second of its kind in Australia and also features a tiny 1024cpt encoder and a 42mm planetary gearhead.

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