

News Release



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High Performance Disc Magnet Motor from Portescap Delivers Best-in-Class Power-rate and Acceleration

Portescap introduces the P532 series disc magnet step motor with encoder. This integrated solution delivers a best-in-class power rate and acceleration to outperform standard Brushless DC motors in a wide range of applications where closed loop performance is needed. The P532 series motor has a diameter of 52mm, length up to 55 mm, and rated torque of 0.2 Nm (boosted up to 0.5 Nm). This allows the P532 to deliver fantastic dynamic performance such as acceleration up to 400K rad/sec². Such performances are perfectly suited for applications where rapid changes in rotation are required (+/- 3,000 RPM in a few ms). Application examples include electronic yarn guide, medical XY tables and robotics.

“Portescap’s P532 series motor has a unique multipolar design requiring no additional Iron to the rotor and therefore giving this motor very low inertia (12^{E-7} kgm²). Closing the position loop with the encoder, it is capable of exceptional accelerations which, together with a high speed up to 6,000 RPM, make this motor technology suitable for fast incremental motion,” Says Anant Bhalerao, Associate Product Line Manager.

With its unique design and encoder as a standard feature, the P532 series disc magnet motor enables machine builders to improve the overall design efficiency of their machine. As a result, these RoHS-compliant step motors are an ideal solution in textile, life science, medical, fluid handling and industrial automation equipment.

About Portescap

Portescap offers the broadest miniature and specialty motor products in the industry, encompassing coreless [brush DC](#), [brushless DC](#), [stepper can stack](#), [gearheads](#), [digital linear actuators](#) and [disc magnet](#) technologies. Portescap products have been serving diverse motion control needs in wide spectrum of medical and industrial applications - [medical](#), [life science](#), [instrumentation](#), [automation](#), [aerospace](#) and [commercial applications](#), for more than 70 years.

Portescap has manufacturing centers in the United States, St. Kitts, and India, and utilizes a Global Product Development network with research and development centers in the United States, China, India, and Switzerland.

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