

## **Portescap introduces the next model of innovation with a new high performance 16 mm ECP Brushless Slotless Motor**

Portescap introduces the newest addition to our Ultra EC™ mini motor platform - the 16 ECP brushless motor, designed specifically to provide an economic motor solution for high performance applications. The 16ECP has been developed to be one of the most advanced and highest performing brushless slotless motors in its class, specifically optimized for high continuous torque at low to medium speeds, maximizing power between 40 K and 55 K rpm, and rated speed at approximately 60 K rpm.

The 16ECP provides high performance and is constructed with an enhanced high efficiency magnetic circuit that significantly reduces both iron and recirculation losses, the primary causes for motor stator heating. The new patented EC motor coil also achieves higher available torque and mechanical power compared to similar brushless motors. The result is the new 16ECP stays cooler and offers greater power density than equivalent models within its target operating zone.

The 16ECP offers an effective economic solution for high performance end applications by pairing the right amount of complexity, minimizing motor size and optimizing cost effective materials in its design. By optimizing the electro-mechanical motor design and material selection of the 16ECP, Portescap succeeds in providing a high quality, long lasting, high performance brushless motor that is simple and efficient to operate.

The advantages of the 16ECP make it a great match for low speed, high torque end applications, or applications in the medium speed range (30 K to 55 K rpm). The 16ECP is a good choice for geared applications because of its minimal speed drop and low motor heating under load. Additionally, the 16ECP's efficiency, power density and long life make it an excellent alternative for a brush DC motor solution. Lastly, the 16ECP's low inertia design makes it an exceptional option for applications requiring fast stopping, starting and acceleration.

The 16ECP is available in 36 and 52 mm length versions, with hall sensors and 3 different coils to match your speed and voltage requirements. Upon request, Portescap can provide options for customization, including gearboxes, encoders, sensorless versions, coil variations, and mechanical interface modifications.

Portescap is globally ISO 9001:2008 certified, and our production site in India is also ISO 13485, ISO14001:2004 and OHSAS 18001:2007 certified.

### **About Portescap**

Portescap offers best-in class solutions to meet the motion needs of medical and industrial applications. We serve performance-critical applications with a broad offering of electronic miniature product technologies - [brush DC](#), [brushless DC](#), [stepper can stack](#), [digital linear actuators](#), [disc magnet](#) and [gearhead/encoder/drive](#) technologies. Portescap products have been serving diverse motion control needs in wide spectrum of medical and industrial applications - [medical](#), [life sciences & clinical diagnostics](#), [instrumentation](#), [automation](#), [aerospace](#) and [security](#) applications, for more than 70 years.

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

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