

## **The New 22ECP35 Ultra EC Brushless Motor Get the right balance of speed and torque at an optimum price**

Portescap has expanded the new Ultra EC™ range of Brushless motors with the introduction of the new 22ECP35 two pole brushless DC motor. Part of our Ultra EC platform of brushless slotless mini motion solutions, these cost-optimized motors offer 30 percent more continuous torque and 100 percent more power over similar comparative motors without compromising on the smooth operation and long life you expect from a brushless DC motor.

The 22ECP35 brushless DC motor features our patented Ultra coil technology which provides unparalleled torque and power density with limited core losses over a wide range of working speeds without friction & brush wear. The 22ECP35 can be adapted to most applications in the medical and industrial markets, enhancing the life and reliability of a device without compromising on power and machine throughput.

The new 22ECP35 is an ideal choice for applications such as battery operated power hand tools, factory automation equipment such as electric grippers, humanoid robots, lab automation equipment, disposable medical tools, automation actuators, and also for applications with constraints on length.

The 22ECP is available in 35, 45 and 60 mm length versions, with hall sensors and a total of 4 different coils to match your speed and voltage requirements. Upon request,

Portescap can also provide options for customization including gearboxes, encoders, coil variations and mechanical interface modifications.

Portescap is globally ISO 9001:2008 certified and our production site in India is also ISO 13485, ISO 14001:2004 and OHSAS 18001:2007 certified.

#### Motor Performances

<b>Motor Performances</b>					
	<b>Frame Size</b>		<b>Torque *</b>	<b>R/K2**</b>	<b>Max Speed</b>
	<b>Diameter(mm)</b>	<b>Length(mm)</b>	<b>mNm</b>	<b>10<sup>3</sup> / Nms</b>	<b>rpm</b>
<b>Portescap 22ECP35</b>	22	35	14.3	21.8	50,000
<b>Comparative Motors</b>	22	32	10.8	37.8	18,000
* Maximum Continuous Torque at comparable heat dissipation for medium speed 2-pole 22mm diameter slotless motor					
**This motor constant gives Joule losses power Pj for a given torque T ; the lower the better: $P_j = (R/K^2) * T^2$					

#### 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.