

New 22ECP Miniature Motor Provides Perfect Balance between High Speed and High Torque

*A universal performance BLDC slotless mini motor solution
for your most challenging application needs*

Portescap introduces the new 22ECP two-pole motors which balance speed and torque capabilities, bringing premium performance to the most commonly specified brushless motor working points. Part of our Ultra EC™ platform of brushless slotless mini motion solutions, these cost-optimized motors can provide 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 Portescap's brushless slotless motors.

The 22ECP motor features our patented Ultra coil technology which provides unparalleled torque and power density, from low to high speed. The 22ECP 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 22ECP is an ideal choice for applications such as hand tools, factory automation equipment, lab automation equipment, disposable medical tools, industrial grippers and automation actuators.

The 22ECP is available in 45 and 60 mm length versions, with hall sensors and a total of 3 different coils to match your speed and voltage requirements. Upon request, Portescap can 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, ISO14001:2004 and OHSAS 18001:2007 certified.

| Motor performances | | | | |
|--|----------------------|--------------------|-----------------|---------------------------|
| | Frame Size | | Torque * | R/k² ** |
| | Diameter (mm) | Length (mm) | mNm | 10³/Nms |
| Portescap 22ECP45 | 22 | 45 | 29.4 | 7.1 |
| Comparative Motors | 22-24 | 44-44.5 | 16-23.2 | 10.8-18.8 |
| <p>*Maximum Continuous Torque at comparable heat dissipation for medium speed 2-pole 22mm diameter slotless motors</p> <p>** This motor constant give joule losses power Pj for a given torque T; the lower the better: $P_j = (R/k^2) * T^2$</p> | | | | |

