

New 30ECT Ultra EC Brushless Motor – Ultra High Torque in a Compact Package

Portescap is proud to announce the expansion of the Ultra EC™ range of brushless DC slotless motors with the introduction of the new 30ECT motor. This 4 pole motor offers ultra high torque and power (up to 245W, max continuous) without compromising on the smooth operation and long life you expect from Portescap's brushless slotless motors.

The new 30ECT motor is available in two lengths: the 30ECT64 and the 30ECT90. The 30ECT64 and 30ECT90 motors feature 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. These motors feature our patented high-speed rotor design as well to sustain speeds up to 30,000 rpm. The 30ECT90 is unique and opens new areas for slim/long package with impressive torque capabilities, while the 30ECT64 bridges the gap in terms of torque between the 22ECT82 and 30ECT90 allowing high speed capabilities. Thanks to its rugged design, the 30ECT can sustain peak torque during 2s up to 1.3Nm (30ECT64) and 2.4Nm (30ECT90).

The 30ECT motors can be adapted for most applications within the industrial markets, enhancing the life and reliability of a device without compromising on power and machine throughput and saving energy. The new 30ECTs are an ideal choice for applications such as battery-operated hand tools, including industrial tightening devices

and drills, factory automation equipment such as electric grippers, humanoid robots and automation actuators and for applications where there are diameter constraints.

The new 30ECTs feature a laser welded front flange to ensure the strongest housing to sustain high torque reaction. A temperature probe on the coil head ensures an optimized control of motor performances in heavy duty applications. These motors are offered with hall sensors and a total of 6 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					
	Frame Size		Torque	R/K2**	Max Speed
	Diameter(mm)	Length(mm)	mNm	10³ / Nms	rpm
Portescap 30ECT64	30	64	136	0.578	30,000
Portescap 30ECT90	30	90	225	0.266	25,000
<p>*This motor constant gives Joule losses power Pj for a given torque T ; the lower the better: $P_j = (R/K^2) * T^2$</p>					

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, 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.