

New 40ECP Brushless Slotless Motor Delivers Active Cooling with Unparalleled Torque and Speed Capabilities

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Portescap is excited to introduce its latest motion innovation, the 40ECP brushless slotless motor. The 40ECP is available in two lengths: the standard 40ECP44 at 44mm; and the 40ECP55 at 55mm, which is Portescap's first motor featuring an integrated fan for active cooling. Both solutions are cost-optimized, thanks to an innovative assembly process, thus delivering premium performance at an affordable price point.

The 40ECP's slotless design allows the motor to run up to 30,000 rpm, while its low weight of 230 grams and compact 40mm diameter not only facilitates continued application miniaturization, but also supports improved tool ergonomics. The integrated fan provides active cooling during the motor's operation, which improves operator productivity. The special electromagnetic design provides high speeds at low voltage while simultaneously delivering excellent peak torque capability; in fact, the 40ECP motor can sustain peak torque for 2 seconds up to 1.1Nm.

The 4-pole motor is compatible with the R32 gearhead and the M-Sense encoder, allowing for higher torque at lower speeds and more accurate positioning. As with its entire product portfolio, Portescap offers the flexibility to customize the motor's electrical parameters and mechanical interface to meet specific application requirements.

Battery-powered hand tools will greatly benefit from the 40ECP, such as strapping/stapling, riveting, tightening, crimping, and cutting hand tools. A variety of other applications, including miniature pumps, electric grippers, and robotic

actuators, are also well-suited for leveraging the 40ECP. This motor also helps support the transition from both manual devices to powered devices and the shift from brushed to brushless technologies.

Image captions:



Image 1: 40ECP55 Brushless Slotless DC Motor

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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, lifescience, instrumentation, automation, aerospace and commercial applications, for more than 70 years.

For more information, visit www.portescap.com

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