

Portescap's 40EC-Pro PT Revolutionizes Industrial Power Tools

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Portescap is excited to introduce its latest innovation for the industrial power tools market: the 40EC-Pro PowerTool (PT) brushless slotless motor. This motor comes in two lengths, the 40EC-Pro PT 44 at 44mm and the 40EC-Pro PT 55 at 55mm. Notably, the 40EC-Pro PT 55 is Portescap's first motor to feature an integrated fan, which actively cools the motor and boosts its continuous power from 150W to 425W. Both models are cost-optimized through an innovative assembly process, ensuring premium performance at an affordable price.

With its slotless design, the 40EC-Pro PT achieves speeds up to 30,000 rpm, ensuring high performance even at low voltage. The advanced electromagnetic design allows it to sustain a peak torque of up to 1.1 Nm for 2 seconds. Weighing just 230 grams and having a compact 40mm diameter, it not only supports application miniaturization but also enhances tool ergonomics.

Compatible with R32 and R40 gearheads and the M-Sense encoder, the 4-pole BLDC motor offers higher torque at lower speeds and more accurate positioning. Portescap also provides customization of the motor's electrical parameters and mechanical interface to meet specific application requirements.

Battery-powered hand tools, especially those using 18V batteries, benefit immensely from the 40EC-Pro PT motor. This includes nut runners, tightening tools, and strapping, stapling, riveting, crimping, and cutting hand tools. The 40EC-Pro PT motor facilitates the transition from manual to powered devices and supports the shift from brushed to brushless technologies.

Image captions:



Image 1: Portescap's 40-EC Pro PT BLDC slotless motor is perfectly suited for nut runners and various industrial power tools, especially 18V battery-powered hand tools.

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About Portescap

Portescap, a proud member of Regal Rexnord, excels in addressing critical motion challenges with premium miniature electronic motors and components. For over 70 years, our extensive product range – including coreless brush DC, brushless DC, stepper, gearhead, encoder, and controller technologies – has powered applications across the aerospace and defense, automation, industrial power tools, medical, robotics, and surgical hand tool industries. Expert engineers collaborate with you from prototype to production, ensuring exceptional performance tailored to your specific needs.

As part of Regal Rexnord, customers benefit from seamless access to a vast brand portfolio and a robust global manufacturing and sourcing network. Dedication to innovation and sustainability drives us to design products that significantly impact daily life. Leveraging Regal Rexnord's broader expertise and resources, we aim to deliver sustainable solutions that power, transmit, and control motion, helping to create a better tomorrow.

For more information, visit www.portescap.com

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