



Brushless Slotless Motors 40ECP

Cost-Optimized Motor Delivers Active Cooling with Unparalleled Torque and Speed

The 40ECP brushless slotless motor is the newest addition to our cost-optimized motor portfolio, delivering premium performance at an affordable price point. It 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. The 40ECP's compatibility with the R32 gearhead and the M-Sense22 encoder is of note, allowing for higher torque at lower speeds and more accurate positioning.

The motor's special electromagnetic design provides high speeds up to 30,000 rpm 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. Its low weight of 230 grams and 40mm diameter also helps facilitate the design of compact, lower-weight applications without compromising on targeted performances.

Battery-powered hand tools will greatly benefit from the 40ECP, such as strapping/stapling, riveting, tightening, crimping, and cutting hand tools. Miniature pumps, electric grippers, and robotic actuators are also well-suited for leveraging the 40ECP.

Key Features

- Active cooling with integrated fan (40ECP55)
- Available in 2 lengths
- Speeds up to 30,000 rpm
- Peak torque up to 1.1Nm
- Low weight of 230 grams
- Thermal sensor option

Applications

- Battery-powered hand tools
- Strapping/stapling hand tools
- Riveting hand tools
- Tightening hand tools
- Crimping hand tools
- Instrumentation
- Factory automation
- Electric grippers
- Robotic actuators

Compatibility

- R32 gearhead
- M-Sense22 encoder

✓ Speeds up to 30,000 rpm

✓ Peak torque up to 1.1Nm

✓ Integrated cooling fan

