

## Ultra EC™ Brushless Motors 12ECP48



### Premium Performance in Compact, Cost-Optimized Package

The 12ECP48 is the latest addition to Portescap's Ultra EC brushless DC platform. A perfect blend of premium performance and cost optimization, this motor is ideal in helping end users design compact, lower weight applications without compromising on targeted performances.

Featuring a 12mm diameter, the 12ECP48 can reach speeds up to 60,000 rpm, and at 30 grams, is almost 10% lighter than existing motors of a similar size. Its 48mm coil is two times longer than competitor motors, and it provides up to 8.1 mNm maximum continuous torque. The R13 gearbox compatibility makes the motor an ideal combination for applications requiring torque up to 0.5Nm.

The 12ECP48 is best-suited for battery-powered hand tools in the medical and industrial markets, including biopsy, podiatry, and cosmetic hand tools, robotic pipetting, electric grippers, and miniature pumps. This motor is also an excellent choice for those who are looking to migrate from brush DC to brushless DC technologies for longer lifetimes, as well as those shifting from manual to powered devices for improved productivity and accuracy.

✓ High torque up to 8.1mNm

✓ Lightweight at 30 grams

✓ Speeds up to 60,000 rpm

### Key Features

- 12mm diameter
- Torque up to 8.1mNm
- Available with or without Hall sensors
- Slotless design

### Applications

- Biopsy Hand Tools
- Podiatry Hand Tools
- Endodontics Hand Tools
- Robotic Pipetting
- Miniature Pumps
- Electric Grippers
- Electronic Assembly

### Compatibility

- R13 gearbox

