



Enhanced Autoclavability in Large Frame Size

The Size 20 BLDC slotted gearmotor is a welcome addition to Portescap's Surgical Motor Solutions portfolio. Designed to provide high reliability and sterilization in the surgical field, this motor and integrated gearhead combination is quite unique in that it is the only motion solution available on the market that offers such a large frame size with an autoclave feature.

The enhanced autoclavability is the result of the improved encapsulation of the windings, which allows the gearmotor to withstand more than 1,000 autoclave and medical device dishwasher cycles. The 6 pole design and full metal integrated gearhead facilitate the Size 20's ability to provide more torque within a compact envelope, allowing it to achieve a high peak torque of 15Nm.

The B2010A4 is an ideal solution for powered surgical devices, especially those within surgical robotics, surgical power tools, and surgical bone mill & bone crusher applications. It is also well-suited for those looking to miniaturize their applications while maintaining high sterilization requirements.

Key Features

- Survives >1,000 autoclave cycles & medical dishwasher cycles
- Provides 15Nm output torque
- 6 pole slotted design

Applications

- Surgical Robotics
- Surgical Power Tools
- Surgical Bone Mills

Customization

- Custom shafts - flats, knurling, diameter, length
- Coil modifications - resistance and inductance
- Gearheads for increased torque
- Without hall sensors
- Connectors

- ✓ Survives 1,000+ autoclave cycles
- ✓ 15Nm output torque
- ✓ 50mm diameter

