

New High Torque 16DCT Athlonix™ Mini Motor from Portescap High torque in a compact package

Portescap introduces the new 16DCT motor to its high torque DCT range of Athlonix motors. The 16DCT motor can deliver continuous torque up to 5.24 mNm at a length of only 26mm.

The 16DCT utilizes powerful Neodymium magnets and Portescap's proven energy efficient coreless design. The optimized self-supporting coil ensures high performance is delivered in a compact package, reducing the overall cost of ownership. Compared to similar motors in the market, the 16DCT has the lowest motor regulation (R/K2) which means it has a lower drop in speed at increasing load. This provides the most powerful motor available at your disposal for various challenging application needs. This feature, combined with efficiency up to 85%, makes the 16DCT motor an ideal motion solution for battery operated tools.

16DCT is available with precious metal and graphite commutation systems and is ideal for applications such as medical and industrial pumps, drug delivery systems, robotic systems (bionic fingers), small industrial power tools, tattoo machines, mesotherapy guns, dental tools, watch winders, and industrial grippers. Other applications including security and access and humanoid robots can excel using the 16DCT Athlonix motor.

An optional special bearing assembly can also be provided for applications having cyclic radial and axial load requirements. The 16DCT is also available with an REE coil (Restriction of Electro Erosion) which prolongs the life of the motor and provides an environment of intrinsic safety especially at high speed conditions.

Component standardization and design modularity allow quick customization capability for samples across various applications. Athlonix motors are compatible with encoders and gearheads of various sizes and ratios and are also available on our online motor configurator Motion Compass™. They are manufactured in an ISO certified facility and are RoHS compliant.

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 - medical, life science, instrumentation, automation, aerospace and commercial applications, for more than 70 years.

Portescap has manufacturing centers in the United States, St. Kitts, and India, and utilizes a Global Product Development network with research and development centers in the United States, China, India, and Switzerland.

