

Portescap's B16C Gearbox: A Compact Spur Gearing Solution for Enhanced Infusion Pump Design

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Portescap, a global leader in miniature motion solutions, highlights the B16C gearbox as an ideal solution for optimizing infusion pump designs. This innovative spur gearing solution is tailored for engineers aiming to optimize their infusion pumps without sacrificing performance or reliability. The B16C's compact design reduces the overall length by 3 to 4 mm compared to similar motor/gearbox composites, making it an ideal choice for space-constrained applications. When paired with the high-performance 16DCT Athlonix™ motor, the B16C delivers up to 100 mNm of continuous torque output, ensuring robust and reliable operation.

The B16C gearbox excels in applications where space and weight are critical, such as ambulatory infusion pumps. Its compact form factor allows for a smaller overall pump size or the incorporation of additional design features. The integrated design reduces the number of internal components, resulting in fewer points of contact and lower output noise. This reduction in noise is crucial for infusion pumps used in home environments or quiet procedure rooms, enhancing patient comfort during drug delivery. With gear ratios available up to 27:1, the B16C offers a wide range of speed and torque outputs when combined with the 16DCT coil options, providing engineers with the flexibility to meet diverse application requirements.

The B16C can be mechanically customized to suit specific needs, from shaft modifications to housing changes, and special lubricants are available to accommodate unique application demands. Portescap invites engineers and designers to explore the capabilities of the new B16C gearbox and see how it can

enhance their next-generation infusion pump designs. For more information on the B16C and other innovative motion solutions, please contact Portescap or visit our website at www.portescap.com.

Image captions:



Image 1: Portescap's B16C gearbox is a compact, powerful, and quiet solution ideal for optimizing infusion pump designs.

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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, lifescience, instrumentation, automation, aerospace and commercial applications, for more than 70 years.

For more information, visit www.portescap.com

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