thin gap

Product Release

ThinGap's LS Line of Slotless Motor Kits
Available in sizes 25 mm to 267 mm

ThinGap's Expands its Line of Ultra-Small Coggless Motor Kits

Adding two new, taller, and higher-torque 25mm OD motors, the LSI 25-16 and LSI 25-25

Same Zero Cogging and Thin Radial Cross-Section as other ThinGap Slotless Motors

Camarillo, CA (October 27, 2020) – ThinGap has announced an expansion to its smallest ever motor kit, the LSI 25-10. This ultra-small 25 mm outer diameter (OD) class of motors now has the option for 16 mm and 25 mm tall variants, which boast increased torque and power within the same small profile. The new LSI 25-16 and LSI 25-25 are part of the ongoing addition of "tall" variants to all sizes within ThinGap's LS product line. Expected to be released by early 2021, the LSI 51-13 and LSI 59-13 are the next motor kits to receive tall variants.

The LS Line of slotless motor kits feature high-performance, zero cogging, high efficiency, and are lightweight. They leverage ThinGap's proprietary stator technology and long-standing design expertise. The motor kits are ideal for smooth and precise motion in targeted applications, such as robotics, automation, and optics in the typical aerospace, medical, precision industrial and communications markets.

With OD sizes from as small as 25 mm and up to 267 mm wide, the LS line offers a large through-hole and low-profile form factor that is ideal for integration into a wide range of OEM systems and test platforms. The LS motor offers torque performance equivalent to traditional frameless motor kits available on the market, unlike other slotless motor solutions which force a trade-off between torque output and smoothness. The LS design's lamination stacks that surround the coil-wrapped stator are ideal for clamping and bonding as part of their integration into systems and provides a thermal path that improves the motor's efficiency.

ThinGap's complete LS line of slotless motor kits range in continuous torque from .1 to 12 N-m. With standard and modified-standard configurations, the product line will support input voltages from 7-285Vs and current from 3-12A. Special configurations are also available.

ThinGap's LSI 25-10, LSI 25-16, and LSI 25-25

About ThinGap

For over fifteen years, ThinGap has been a world leader in the design and manufacturing of USA-made, high performance frameless electric motor and generator kits.