

Product Release



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

ThinGap Sampling its Newest Motor, the LSI 75-30 “Tall”

Zero Cogging, Large Through-hole, Thin Radial Cross-Section.

High Torque-to-Weight Ratio, Low Inertia and High Efficiency.

Designed for Precision Movement in an attractive form factor.

Dimensions:

LSI 75-30 is 75mm OD, 59mm ID, 30mm axial height with 5.49 N-m of peak torque

Camarillo, CA (April 8, 2020) – ThinGap has announced the latest expansion to its LS Line of slotless motor kits with the addition of the taller version of its LSI 75 parts. The radius of all the LSI 75's is about the size of a soda can's rim and is now available in three different heights, a short 12 mm version (LSI 75-12), a tall version at 20 mm (LSI 75-20) and the newest addition, an extra tall 30 mm height (LSI 75-30).

Reflecting ThinGap's proprietary stator technology and long-standing design expertise, all of the LS Line of slotless motor kits feature high-performance, zero cogging, high efficiency, and are lightweight. The motor kits are ideal for smooth and precise motion. Targeted applications include medical, industrial and communications markets needing high precision such as gimbals, optics, and precision robotics.

The entire LS line offers a large through-hole and low-profile form factor that makes them 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. In contrast to ThinGap's TG Line of motor that can support speeds up to 30,000 RPM, the LS line is designed for lower speeds, anywhere for 100's up to 3,000 RPM.

With standard and modified standard configurations, the product line will cover voltages from 24-400 volts and current from 1 to 100 amps. Hall devices and special configurations are also available. The LS design's lamination stacks that surround the stator are ideal for clamping and bonding as part of their integration into systems and provides a thermal path that improves the motors efficiency.

ThinGap's complete LS line of slotless motor kits range in size from 25 to 267 mm outer diameter (OD) and torque from .1 to 12 N-m continuous. The Company recently delivered a custom LS variant that measured 393 mm OD that can produce in excess of 90 N-m of peak and 14.5 N-m of continuous torque.

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. ThinGap's patented ultra-thin coil stator and optimize permanent magnet design results in a step increase in performance relative to conventional slotted motor technologies, as well as other available slotless motors. ThinGap motors have very high-power density, high torque density, zero cogging smoothness, and operate at high efficiency. These frameless motor kits offer unsurpassed mechanical design flexibility, are highly scalable in size, shape and power, and easily integrate into complex mechanics.