



ThinGap's new  
LSI 85-13 Part Set

# Product Release

## The New LSI 85-13 Slotless Motor Kit Set to Take Flight

*Designed with airborne gimbals in mind, this new variant builds on the LS Series' flight heritage  
The 85mm OD fills the gap between the LSI 75 and LSI 105 standard models*

**Camarillo, CA (June 20, 2023)** – ThinGap continues the expansion of its LS Series of slotless motor kits with the latest release, the LSI 85-13. The new LSI 85-13 motor kit has an outer diameter (OD) of 85 mm, and an axial height of just 13 mm, making it a little wider than 3 inches and roughly half an inch tall. With a total mass of 232 grams, it offers a continuous torque output of 0.324 N-m and a peak as high as 3.88 N-m.

The LSI 85-13 can operate at speeds of 0-1,760 RPM. Unique to the cogless nature of ThinGap's slotless architecture, all of its motor kits can effectively operate across its entire range of speeds. Effective low speed is due to not needing to overcome the detent torque typical in a slotted or stepper motors.

Designed from the ground up for use in a gimbal system, the LSI 85-13 joins other ThinGap motors that have found homes in airborne applications. Multi-axial gimbal systems leverage the benefits of high performance cogless Ring Motors to directly drive movement and maintain position, while offering Size, Weight, and Power (SWaP) savings, which are all highly desirable traits. ThinGap's LS Series of slotless motor kits is an industry leader for gimbal applications.

Using its proprietary, thin wire-wrapped stators, and optimized permanent-magnet rotors, ThinGap provides motors with specifications that can match the torque output of slotted motors, while avoiding the cogging that plagues them. ThinGap's LS Series of slotless motor kits range in size from 25 to 267 mm diameter and torque from 0.1 to 12 N-m continuous, voltages from 24-400 volts, and current from 1 to 100 amps.

For additional information on custom motor development, please contact the company at [info@thingap.com](mailto:info@thingap.com) or visit [www.thingap.com](http://www.thingap.com).

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### **About ThinGap**

*For over twenty years, ThinGap has been a world leader in the design and manufacturing of USA-made, high performance frameless electric motor and generator kits. In May 2022, ThinGap became part of Allied Motion's global organization and remains a standalone business unit.*