

ThinGap's LS Line: Zero Cogging, Air Core Slotless Motor Kits with Large Through-Hole, High-Torque and High-Power Density

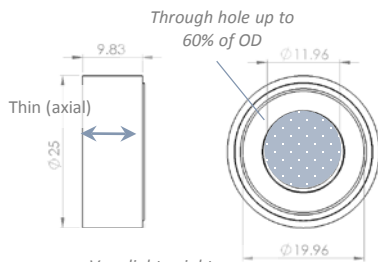


- **Frameless Motor Kits for Easy Integration**
- **High Torque and Low-Inertia**
- **Proprietary Zero-Cogging for Smooth Motion**
- **Lightweight and High Efficiency**
- **Low Profile with Large Through-Hole**

ThinGap's LS Series

Slotless / Frameless Motor Kits

Highest torque density with high power capability.
 Sizes 25 mm to 267 mm, up to 60% ID of total OD



Very lightweight:
 51 mm part set <90 grams

OD SIZES 25 mm TO 267 mm

AXIAL HEIGHT AS THIN AS 10 mm

PEAK TORQUE 0.04 Nm TO 62 Nm

Motor Model Designation	OD / Height (mm)	Continuous Torque Range (N-m)	Peak Torque (N-m)
LSI-25 Short	25 / 10	0.016	0.044
LSI-25	25 / 16	0.023	0.071
LSI-25 Tall	25 / 25	0.066	0.2
LSI-51	51 / 13	0.14	0.515
LSI-59	59 / 13	0.2	0.78
LSI-75 Short	75 / 12	0.29	1.03
LSI-75 Tall	75 / 20	0.66	0.825
LSI-105	105 / 33	1.61 to 1.90	7.69 to 9.04
LSI-130	130 / 23	2.25	12.1
LSI-152	152 / 29	2.06 to 3.58	12.3 to 18.4
LSI-267	267 / 32	11.91	61.8

Robotics | Semiconductor Inspection | Direct Drive Motors

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- Smooth motion with zero cogging
- Ultra low torque ripple when paired with a sinusoidal drive
- 3-phase brushless, sinusoidal waveforms < 1% THD
- High peak torque-to-continuous torque ratio
- Non-saturating structure allows high peak torque (typically > 4:1)
- Large clear apertures; frame-less kit facilitates deep integration
- Space and MIL-STD qualified
- Optional rotor hubs for deeper integration
- Low profile pancake style design
- Made in the USA