

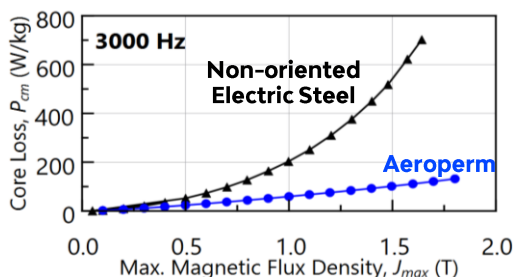
Aerperm® UAV Stator Cores

More endurance, payload headroom or thermal margin from the same battery and airframe.

Aerperm® stator cores enables up to 10% more endurance with a drop-in stator-core upgrade, validated through static thrust stand testing on two commercial drone motor platforms.

What is Aerperm®?

Aerperm® is Kite Magnetics' proprietary 2 Tesla nanocrystalline soft magnetic material, manufactured into finished electric motor stator cores. For drone motor manufacturers, Aerperm® cores can be supplied as build-to-print stator cores for integration into existing motor designs. For drone manufacturers, Kite can retrofit and test Aerperm® upgraded motors before customer flight testing.



Lower magnetic core loss is the material basis for higher motor efficiency.



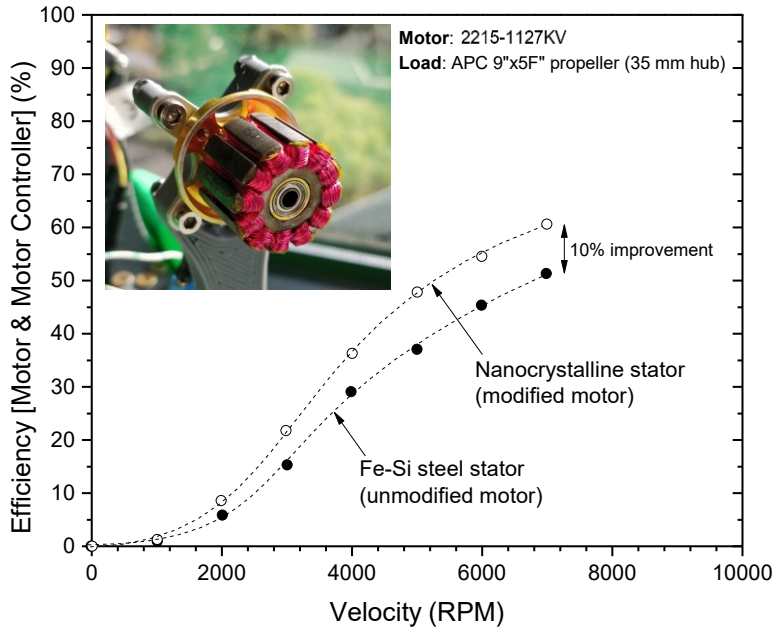
Aerperm® is manufactured into finished stator cores for integration into existing drone motor platforms.

Why drone manufacturers need a new motor efficiency lever.

Drone manufacturers are being asked to increase time on station, payload capacity, and reliability without increasing battery size or redesigning the platform. Aerperm® improves motor efficiency by replacing the conventional stator core material while preserving the existing motor architecture. Same battery. Same airframe. Same motor envelope. More useful work per watt.

Aeroperm® UAV Stator Cores

Validated drop-in stator core upgrade



Aeroperm® is designed as a drop-in replacement for stator cores on existing motor platforms.

The motor architecture is preserved:

- Same motor envelope
- Same rotor
- Same winding layout
- Same propeller
- Same ESC
- Same battery
- Same airframe



Request a drop-in stator core evaluation.

- 1. Share your motor and mission profile:** Kite estimates the likely endurance, payload, or thermal benefit using your motor type, operating conditions, propeller, inverter, and mission profile.
- 2. Confirm evaluation scope:** Kite confirms retrofit feasibility, test conditions, cost, and timeline.
- 3. Retrofit and bench validate:** Kite upgrades your motor with Aeroperm® stator cores and validates performance on its thrust stand before delivery.
- 4. Flight test and scale:** You flight test the upgraded motor on your platform, then move to volume core supply, in-house retrofit, or an Aeroperm® optimized motor design.

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