Meet The Axe, a Vertically Capable Aircraft

SKYFLY

What is The Axe?

The Axe is a two-seat, vertically-capable, all-electric aircraft designed to conform to the U.S. Light-Sport Category under the FAA's new MOSAIC rules. The Axe combines efficient airplane cruise flight with vertical take-off & landing, as well as conventional runway capability.

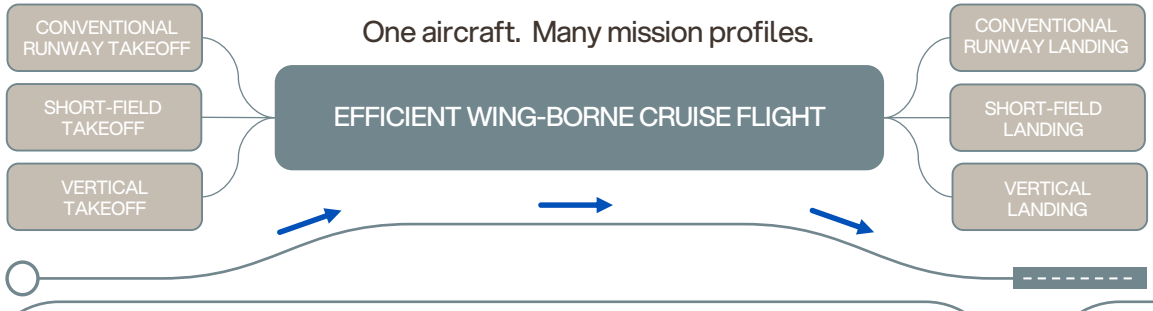
Performance Snapshot

87 knots (100 mph) cruise speed	**100+** nautical miles of range§
2 seats	**6:1** glide ratio

Flight Profile Optionality

The Axe gives you options:

- Conventional runway roll - for normal airport operations
- Short-field capability - small strips and rural destinations
- Vertical takeoff & landing - maximize location flexibility





Vertical flexibility with wing-borne efficiency

Did you know?

...that horizontal stabilizers on conventional aircraft produce negative lift?

On the Axe, both wings produce positive lift, allowing for efficient cruising. This tandem wing design creates an inherently stall-resistant flight profile because the canard is set to reach peak lift before the main wing. Control surfaces are mechanically actuated, so even with power set to idle they are fully functional, and the Axe remains under pilot control during an aerodynamically stable glide.

2 efficient wings enable a **6:1** glide ratio

Safety Through Redundancy

8 motors	**4** propellers
3 flight computers	**1** ballistic parachute‡

Leveraging technology to design for safety

§ Estimated Maximum Range (No Reserve)

Operating the Axe in the United States

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Whether you're already a pilot or have never flown before, the Axe is designed to be accessible to you under the FAA's new Light-Sport Category regulations.

Who can learn to fly the Axe in the US?

New pilots:
Earn an FAA Private Pilot certificate with a Powered-Lift category rating & Axe type certificate with as few as 30 hours of flight instruction and 10 solo flight hours.*

Current pilots:
Add an FAA Powered-Lift rating & Axe type certificate with as few as 20 hours of Axe flight instruction and 10 solo flight hours.*



Designed for the FAA's new MOSAIC rules

How can we use the Axe?

Axe is perfect for personal transportation, recreational flights and training. A light sport category aircraft may also be used for hire to provide flight lessons. When "Incidental to Business" it can be used for photography, and infrastructure & agricultural inspection.

Can we Take Off & Land from our Home or Business?

Check first. Landowner permission is required. FAA Airspace & Operational regulations apply, and for landings so do local regulations. Some cities & counties have zoning, noise and helicopter operations rules that may affect aircraft landings.

85% Energy Savings

The Axe uses approximately $12 per hour in electricity, versus $75 for conventional aircraft burning 10 gallons of avgas per hour.

Low Maintenance

No more oil changes. And electric motors have a 10,000+ hour expected service life, rather than a 2,200 hour TBO (time between overhaul).

Hangar Efficiency

At 15 feet x 27 feet, the Axe's space-efficient tandem wing design uses half the rectangular hangar footprint of other light aircraft.

Fast Charging

Charge in the hangar or at home. Optional quick charging keeps turnarounds short and training fleets flying all day.

Quiet Electric Flight Axe is designed for reliability, efficiency, low operating costs and dramatically reduced sound output compared to conventional aircraft.

Specifications, equipment and operating privileges are subject to final aircraft configuration, US flight privileges are governed by FAA rules, operating limitations and training requirements.
*These are FAA training minimums, and actual training time varies by individual. ‡Ballistic parachute is an upgrade option.