

SKYFLY



The Axe

A Vertically Capable, Light Sport Category Aircraft

Vertical Takeoff and Landing

The Axe can take off and land vertically, no runway required.

It can operate from small fields, private land, or confined spaces, giving you access to destinations most aircraft can't reach.

Efficient Forward Flight

Once airborne, the Axe transitions to conventional fixed-wing flight for high efficiency and extended range. This combination dramatically improves cruise performance compared with rotor-only designs.

Designed for New and Current Pilots

Built to be affordable and enjoyable to own, the Axe brings quiet vertical flight capability to a broader community. New and Current FAA Private pilots can obtain aircraft-specific training and instructor endorsement to fly.

Safety by Design

Redundant systems: Three independent flight control systems, and four rotors powered by eight electric motors, provide fault tolerance.

Mechanical flight controls: When the throttle is reduced to idle, and even if the power is turned to off, Axe's naturally stable aerodynamic wing lift and direct mechanical control surface linkages enable a safe glide to landing.

Ballistic parachute: Additional emergency system to provide even greater peace of mind.

Intuitive Handling

Designed to be easy and intuitive to fly, with automatic stabilization in hover mode and predictable forward-flight handling.

Simple, intuitive handling allows pilots to transition cleanly between hover and efficient fixed-wing flight.

Cost & Accessibility

Excellent value compared with other personal aircraft, with low operating costs and no need for hangar fees if operated from private land.

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Tech Spec

Canard Span	5 m (16.4 ft) Canard (chord 0.8 m)
Wingspan	5 m (16.4 ft) Wing (chord 1.2 m)
Maximum Takeoff Weight	1650 lbs / 750 kg
Basic Empty Weight	1210 lbs / 550 kg (airframe 300 kg + batteries 250 kg)
Useful Load	440 lbs / 200 kg (for pilot, passenger, and baggage)
Peak Power Output	280 kW peak
Hover Power Required	200 kW
Battery Weight & Capacity	250 kg = 60 kWh
Rotor Diameter	4 x 1.9m (6.2 ft) 4-bladed fixed pitch
Rotor Angle	Fixed
Landing Gear	Tricycle (in a conventional configuration)
Stall Speed	48 kts (55 mph) in wing-borne flight
Best Glide Speed	61 kts (70 mph) at 1200 fpm descent rate
Best Glide Ratio	6:1
Best Climb Speed	62 kts (71 mph) = 2300 fpm
Runway Length Required	0 m - VTOL (vertical takeoff and landing) 30-50 m - STOL (short takeoff and landing) 300 m - Glide and power off landing



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All specifications and performance figures are preliminary and may change as the aircraft reaches its final production configuration.