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.

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### 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.

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### 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.

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### 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.

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### 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.

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### 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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# Axe Tech Spec

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|---|---|
| Overall Dimensions | Width = 26.92 ft (8,205 mm)<br>Length = 14.42 ft (4,395 mm)<br>Height = 10.92 ft (3,328 mm) |
| Wingspan | 16.4 ft (5 m), for both Canard and Aft Wing (not including rotors) |
| Rotor Diameter | 6.2 ft (1.9 m), 4-bladed fixed pitch and fixed angle position |
| 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 Output | 200 kW |
| Battery Weight & Capacity | 250 kg = 60 kWh |
| Landing Gear | Tricycle (in a conventional configuration) |
| Cruise Speed | 87 kts (100 mph) |
| Range | 100+ nautical miles (Estimated maximum range without reserve) |
| 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)<br>30-50 m - STOL (short takeoff and landing)<br>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.