

JETOPTERA

In Development: Jetoptera J-2000

Positioned to be the first useful, silent, fast manned VTOL MOSAIC platform

VERTICAL TAKE OFF/LANDING

The J-2000 is our introductory manned platform of the J-series. Powered by a Fluidic Propulsive System® which eliminates propellers or rotors and enables VTOL from locations inaccessible to helicopters or multi-rotors; the thrusters are swivable and turbocompressors are based on already certified turboshaft engines of 1000-2000 HP class.

SPEEDS UP TO 200KTAS

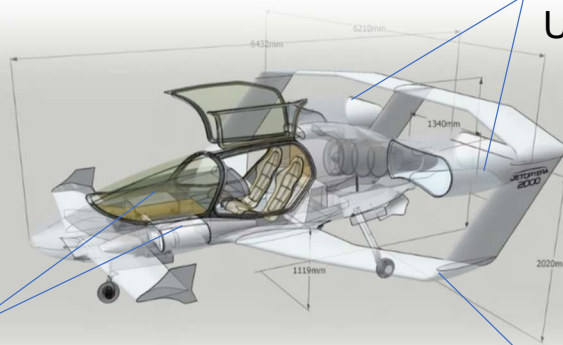
The Prandtl or Box Wing architecture combined with the canard and FPS® yields excellent aerodynamics and a forward speed 2-3x faster than a multirotor or helicopter, silently.

QUIET PROPULSION

Our Fluidic Propulsive System® thrusters do not chop the air like a propeller; the noise emitted by these thrust augmenting proprietary ejectors is atonal, resembling the wind. This enables us to deploy the system without restrictions related to noise and fly, take off and land vertically 24/7. The front thrusters of the J-2000 have already been validated as rear thrusters on the J-500 air cargo UAS. Our turbocompressors are powered by Jet Fuel or SAF today.



250 lbf thruster



1000 lbf thruster
Under development

Carbon Fiber
Prandtl box wing

General characteristics

- **Length:** 6.4 m (21 ft)
- **Wingspan:** 6.2 m (20 ft)
- **Height:** 2.2 m (7.2 ft)
- **Empty weight:** 454 kg (1000 lb)
- **Max takeoff weight:** 910 kg (2006 lb)
- **MAX Fuel capacity:** 284 liters (75 US gallons), 227 kg (500 lb)
- **MAX Payload:** 227 kg (500 lb)
- **MAX Range:** 400 miles
- **Propulsion:** 4xFPS® thrusters, 2x250 lbf (FOR) + 2x1000lbf class (AFT)
- **Powerplant:** Single turbocompressor/fan derived from certified turbines
- **Max Speed:** 200 ktas
- **Max ALT:** 5,000 m (16,400 ft)
- **FUEL:** JetA, SAF
- **Tone-free Noise:** -40 dBa lower than bladed equivalent power system

