



Introducing the J-600-AG

Your reliable bladeless, fast and safe agricultural UAS

VERTICAL TAKE OFF/LANDING

Powered by an Adaptive Fluidic Propulsive System® which eliminates propellers or rotors and enables VTOL from locations inaccessible to helicopters or multi-rotors; the vertical lift thrusters are fixed and the turbocompressors used to supply them with air act as turbofans in cruise, allowing speeds 4-5 times of that of copters

YOUR SOLUTION TO RAPID, AGRICULTURAL AVIATION

The 100 mph working speed matches or approaches manned ag planes. Combined with true VTOL from the FPS architecture, it can operate from field edges, temporary pads, or constrained sites without needing a conventional airstrip. The Diesel powerplant + FPS® can deliver better energy density and endurance than batteries while retaining VTOL flexibility.

ENABLED BY 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. The J-600 uses reliable turbines and does not depend on magic batteries. Our much faster response is order-of-magnitude better than conventional props/rotor supports precise height and speed control at low altitude, tighter turns, and better handling in gusty conditions.



Fluidic Propulsive System®
Concept based on "Pegasus" Project
for Darpa Lift Challenge



Tested 75 lbf-class
FPS® VTOL thruster-ejectors



Atonal Noise
Proprietary ejector



Reliable FTC-200
turbocompressor / turbofan

General characteristics

- Length: 6 m (18.5 ft)
- Wingspan: 9.2 m (30 ft)
- Height: 2.0 m (6.6 ft)
- Empty weight: 62 kg (136 lb)
- MAX ferry/surveillance range (with 10 lbs payload): 400 miles
- MAX takeoff weight: 272 kg (600 lb)
- MAX Payload: 182 kg (400 lb)
- MAX Hopper capacity: 50 gal
- MAX Acres per load (3 GPA): 16 acres in under 5 minutes
- MAX Fuel capacity: 88 liters (22.5 US gallons), 70 kg (154 lb)
- Propulsion: Multiple FPS® thrusters, 75+ lbf class + Cruise nozzle
- Powerplant: 2xJetoptera Proprietary FTC-200 turbocompressors
- MAX Speed: 150 mph (100mph for Part 108 compliance)
- MAX ALT: 5,000 m (16,400 ft)
- Tone-free Noise: -40 dBA lower than bladed equivalent power system