



Introducing the J-900-AG-STOVL

Your reliable bladeless, high capacity STOVL agricultural UAS

SHORT TAKE OFF/VERTICAL LANDING (STOVL)

Powered by an Adaptive Fluidic Propulsive System® and combined with the Upper Surface Blown Wing architecture, which eliminates propellers or rotors and enables STOVL 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; thrusters positioned on the top of the wing provide unprecedented thrust and lift augmentation for Short Takeoff And Vertical Landing (STOVL) capabilities

YOUR SOLUTION TO HIGH CAPACITY RAPID AGRICULTURAL AVIATION

The 100 mph working speed matches or approaches manned ag planes. Combined with Ultrashort Takeoff and Landing from the FPS with upper Surface Blown Wing (USBW) architecture, it can operate from field edges, needing a runway shorter than 100 ft, or constrained sites without needing a long airstrip. The Diesel powerplant + FPS® can deliver better energy density and endurance than batteries while retaining STOVL flexibility. The system can perform Short Takeoff and Vertical Landing, taking off with large payloads and landing vertically once the hopper is empty

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-900-AG-STOVL 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. Using the blown flaps of the wing allows very low or speeds 50-100% faster than the quadcopters and unprecedented attitude control



Upper Surface Blown Wing
& Adaptive FPS® thrusters
– validated thoroughly
in the wind tunnel



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): 800 miles
- MAX takeoff weight: 408 kg (900 lb)
- MAX Payload: 318 kg (700 lb)
- MAX Hopper capacity: 85 gal
- MAX Acres per load (3 GPA): 30 acres in under 10 minutes
- MAX Fuel capacity: 88 liters (22.5 US gallons), 70 kg (154 lb)
- Propulsion: Multiple FPS® thrusters, 75+ lbf class + FPS+USBW Cruise nozzles
- Powerplant: 2xJetoPtera Proprietary FTC-200 turbocompressors
- MAX Speed: 100mph for Part 108 compliance
- MAX ALT: 5,000 m (16,400 ft)
- Tone-free Noise: -40 dBA lower than bladed equivalent power system