

JC250/JX250

HEAVY-LIFT, LONG-ENDURANCE AUTONOMOUS AIRCRAFT



NEXT-GENERATION DUAL-USE UNCREWED VTOL

The Future of Multi-Mission VTOL

The JC250 and JX250 are next-generation, dual-use unmanned aircraft designed for cargo transport and extended-duration ISR missions.

These platforms deliver real-time intelligence, rapid deployment, and persistent operational reach. A hybrid propulsion system enables extended range and endurance without dependence on charging infrastructure—supporting operations in austere and contested environments.



JC250

Group 3 Heavy-Lift Cargo



JX250

Tactical Long Endurance ISR

AIRCRAFT TYPE

Hybrid-electric VTOL cargo UAS

CONFIGURATION

Slowed-Rotor Compound (SRC)
with fixed wing

PAYLOAD

330 lbs. (150 kg)

RANGE

200+ miles (320+ km)

CRUISE SPEED

110 mph (180 km/h)

MAX TAKEOFF GROSS WEIGHT

~800 lbs. (362 kg)

POWERPLANT

Hybrid-electric (engine +
generator + batteries)

ARCHITECTURE

Distributed electric propulsion

DIMENSIONS

16ft (5m) wingspan/main rotor,
17ft (5m) length

JC250/JX250 PRODUCT HIGHLIGHTS



SYSTEM FEATURES



SPEED

110 mph/
180 km/h



RANGE

200+ miles/
320+ km



PAYLOAD

330 lbs/
150 kg



ENDURANCE

14–18 hrs.
@ loiter speeds

SYSTEM HIGHLIGHTS

- Slowed-Rotor Compound (SRC) technology unloads the rotor in forward flight
- Advanced Vision Systems and Detect-And-Avoid AI Technology
- Can autorotate or glide to a safe landing from any altitude or speed under total power loss
- Patented safety features exceed today's helicopter and airplane capabilities

KEY APPLICATIONS

JC250 Heavy-lift Cargo

- Military Cargo Re-supply
- Disaster Relief and Humanitarian Mission
- Middle-Mile Logistics
- Oil and Gas Cargo Supply
- Remote Cargo Delivery

JX250 Tactical Long Endurance

- Military ISR/Contested Logistics
- Border and Coastal Surveillance
- Maritime Patrol
- Disaster response (SAR) and Situational Awareness
- Wildfire Management

OPERATIONAL SPECIFICATIONS

- **Operation:** Beyond Visual Line of Sight
- **Hover Capability:** Yes (full VTOL operations)
- **Weather:** VFR with gust tolerance up to 35 knots, de-icing kit optional
- **Payload Type:** External/detachable cargo pod with autolift
- **Command:** Fully autonomous flight (remote pilot supervision)
- **Ground Control Station:** Portable/fixed
- **Navigation:** GNSS + INS (with degraded-mode capability)
- **Detect-and-Avoid (DAA) Integration:** Cooperative + non-cooperative
- **Fail-Safe/Contingency Management:** Lost link, diversion, safe landing
- **Mission Ready:** Designed for integration into controlled and uncontrolled airspace



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