



V2000CG CARRYALL



The world's first two ton-class unmanned cargo eVTOL to obtain the "Triple Airworthiness Certificates"

V2000CG Carryall

The V2000CG Carryall is a tonnage-class unmanned cargo eVTOL designed for modern aerial logistics. It combines the flexibility of vertical take-off and landing with the high efficiency of fixed-wing cruise, enabling efficient and reliable medium-to-long-distance transportation without runways. Featuring an advanced electric propulsion system and intelligent flight control system, the V2000CG provides stable and efficient aerial capacity for urban logistics, intercity distribution and emergency transportation, ushering in a new model for low-altitude logistics.

Exceptional Mission Performance

The V2000CG is equipped with strong cargo capacity and stable range performance, enabling efficient and point-to-point aerial transportation missions. By extending logistics transport from the ground to the air, it greatly improves intercity delivery efficiency and provides critical capacity support for modern logistics systems.

Flexible Operating Conditions

Powered by its electric vertical take-off and landing capability, the V2000CG requires only a 20m × 20m area for takeoff and landing, eliminating the need for conventional airport runways. Its flexible deployment allows direct access to warehousing centers, logistics hubs, or emergency support zones, ensuring stable operation even in complex environments.

Quiet and Sustainable Operations

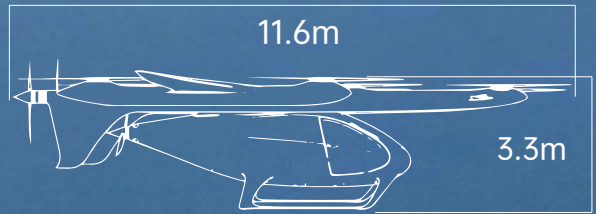
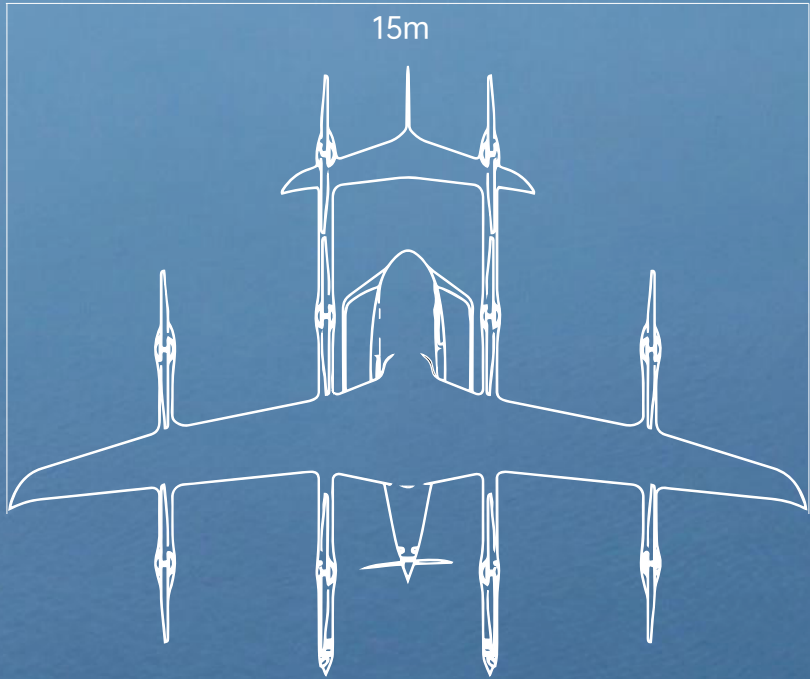
The all-electric propulsion system enables low-noise, low-emission operation while significantly reducing operating and maintenance costs. Coupled with intelligent scheduling and automated monitoring systems, it supports the collaborative operation of multiple aircraft to build an efficient and reliable low-altitude logistics network.



Pioneering Global Airworthiness

The V2000CG has competed the full civil aviation airworthiness certiciation, laying the legal foundation for commercial operations. The complete airworthiness system not only reflects stringent safety and quality standards but also provides customers with stable, compliant and reliable operational assurance.





Aircraft Dimensions

Wingspan	15 m
Length	11.6 m
Height	3.3 m

Aircraft Weight

Maximum Take-off Weight (MTOW)	2000 kg
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Propulsion & Energy System

Propulsion Type	All-Electric
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Performance

Operational Range	200 km
Maximum Operating Altitude	3000 m

Payload Capability

Maximum Payload	400 kg
Maximum Cargo Volume	3.2 m³



*详细信息见《V2000CG型无人驾驶航空器系统飞行操作手册》

Ground & Infrastructure Requirements

	Parameters
TLOF	15 m
FATO	22.5 m
SA	40 m

Operating Environment

Operating Temperature Range	-20 °C – 55 °C
Wind Tolerance	7Level (≈16 m/s)
Rain Tolerance	Moderate rain (≈10 mm/h)

VTOL Performance

Maximum Climb Rate	5 m/s
Maximum Descent Rate	4 m/s
Maximum Lateral / Rear Speed	8 m/s

Cruise Performance

Cruise Climb Rate	4 m/s
Maximum Climb Gradient	10 %
Cruise Speed	42 m/s – 60 m/s
Lift-to-Drag Ratio	12

System Capability

Night Operation Capability	Supported
Communication Links	900MHz / 1.4GHz

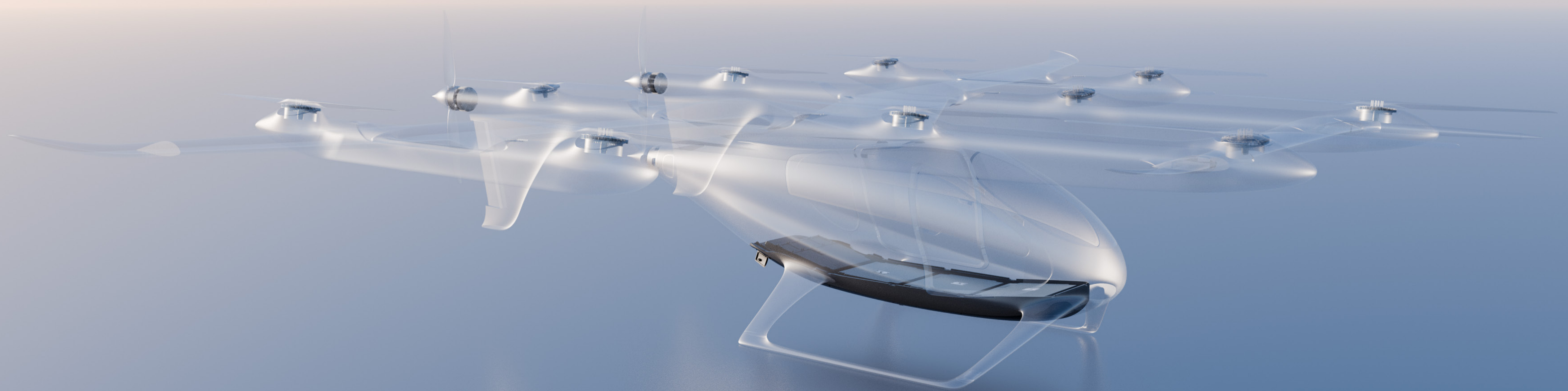




Distributed Propulsion System

The propulsion system is based on an aeronautical-grade cross-redundant design architecture. Each propulsion unit is equipped with independent dual power supplies and dual communication interfaces, enabling distributed power and control for critical systems.

In the event of an anomaly in a single power source or communication link, the system can still maintain stable power output, ensuring continuous operation of the flight control and propulsion systems. The distributed propulsion architecture significantly improves the system fault tolerance and operational reliability of the entire aircraft, providing solid safety assurance for unmanned aviation operations.



Aeronautical-Grade Battery Architecture

The aircraft adopts a four-pack, mutually independent battery architecture, meeting aeronautical-grade requirements for thermal management, protection, and energy safety design. The system is equipped with multi-level battery management and real-time condition monitoring functions.

In the event of an anomaly in a single battery pack, it can still ensure sufficient energy supply for flight and support a safe landing. The combination of multiple redundancy design and intelligent energy management provides reliable energy assurance for the stable operation of the aircraft in complex operating environments.



Energy Platform O&M

- **Efficient Transport Capability**

Compared with traditional marine transportation, it greatly shortens the round-trip time of materials and significantly improves the operation and maintenance efficiency of offshore platforms.

- **Multiple Communication Link Redundancy**

Supports a multi-data-link communication architecture, ensuring stable connectivity and reliable control in long-range offshore environments.

- **Marine Environmental Adaptability**

The aircraft structure features excellent wind resistance, salt spray resistance and corrosion resistance, meeting the requirements for longterm operation in complex marine environments.





Intercity Agricultural Product Transportation

Rapid Intercity Delivery

With aerial transport capability, it significantly shortens logistics time between regions.

Direct Transport Mode

Reduces transit links and realizes direct connection between production areas and urban consumer markets.

Stable Transportation Timeliness

A highly reliable flight platform provides stable assurance for time-sensitive agricultural product transportation.



Land-Island Integrated Connectivity

- **Efficient Cross-Sea Transportation Network**

Featuring vertical take-off and landing and efficient cruise capabilities, it establishes a stable and efficient air transportation network between islands and the mainland.

- **Multi-Scenario Operational Capability**

It is suitable for a variety of application scenarios such as emergency support, island logistics, and tourism transportation, significantly improving regional transportation efficiency.

- **Promoting Regional Coordinated Development**

Providing new transportation solutions for space-constrained island regions and promoting the coordinated development of regional economies and industries.





Complex Terrain & Mountainous Area Transportation Capability

- **Plateau Environmental Adaptability**

Systematically optimized for high-temperature and high-altitude environments, the system maintains stable and reliable flight performance even in thin air and complex meteorological conditions.

- **Establishment of Aerial Transport Corridors**

With vertical take-off and landing and efficient cruise capabilities, it establishes stable and efficient aerial transport corridors in mountainous and hilly areas.

- **Expand the logistics boundaries in mountainous areas**

It supports operation above an actual height of 1,000 meters, significantly expanding the coverage of transportation in mountainous areas and providing new solutions for logistics and material support in remote regions.



After-Sales Service & Support

Full-lifecycle customer support system to deliver continuous, professional and scalable operational assurance services, ensuring the aircraft maintains safe, efficient and reliable operation at all times.



Flight Operations Support

Professional flight and airspace support, including new route planning and full-process operational monitoring, to ensure safe and efficient execution of flight missions.



Maintenance & Engineering Support

Scheduled inspections, maintenance and technical modification services, strictly maintaining aircraft performance in accordance with standards to ensure optimal technical condition at all times.



Personnel & Team Training

Comprehensive qualification training covering the entire flight and maintenance system, helping customers build a highly professional and coordinated team.



Disassembly, Assembly & Transportation Support

Professional solutions for aircraft disassembly, assembly and transportation, ensuring safe and controlled processes to meet aircraft transfer needs in various scenarios.



Air Material & Equipment Support

Supplying genuine original airworthy materials and provide complete inventory management services, guaranteeing a stable and reliable supply chain to support continuous operations.



Operational Support Services

Based on professional analysis of operational data, we provide decision support for customers to optimize cost structure and improve operational efficiency.



Full-Lifecycle "Worry-Free Program"

Based on full-lifecycle service capabilities, we provide an integrated support solution covering assurance, maintenance, and risk management, helping customers establish a predictable and scalable commercial operation system.



Comprehensive Assurance System

Focusing on key risks and assurance needs in aircraft operations, we integrate liability insurance, airframe maintenance, component replacement, and annual maintenance services to form a unified and coordinated support framework.



Customized Support Model

Based on flight hours, mission intensity, and operational phases, we provide multi-cycle and configurable assurance solutions to align service investment with fleet development.



Long-Term Value Enhancement

By improving cost certainty, enhancing operational resilience, and reducing the risk of unplanned downtime, we support customers in continuously optimizing fleet efficiency and asset value performance.





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