XPENG AEROHT

Freedom to Fly

About XPENG AEROHT

XPENG AEROHT is the largest flying car company in Asia and an integral part of the XPENG Motors ecosystem.

Founded in 2013, our vision is to become the "Global Leader in Low-Altitude Product Innovations", and our mission is to bring people the "Freedom to Fly". Through in-house development of core technologies and continuous innovation, we are committed to creating safe, intelligent low-altitude mobility products, such as flying cars, for a variety of user needs. Whether it's personal flight, aerial commuting, or public services, we are driving the transformation of low-altitude mobility, bringing the freedom and convenience of flight to everyone.

XPENG AEROHT was officially established in 2020, a young company with roots going back to 2013

2013

- Huitian was founded in Guangdong, China.

2016

- Flying car prototype started to conduct flight tests.

2018

- Successfully completed the first manned flight of the flying car prototype.

2019

- Developed and test-flown T1, winning IF, Red Dot, and IDEA international design awards.

2020

- **July**
  He Xiaopeng invested in AEROHT.
- **September**
  XPENG AEROHT was officially established.
- **October**
  Developed and test-flown X1.

2021

- **June**
  X2 completed the maiden flight.
- **October**
  Raised over $500 million in Series A funding.

2022

- **October**
  X2 completed its first public global flight in Dubai.
  Test-flown eVTOL Flying Car's prototype.
- **November**
  Gained ¥6 billion credit from 4 leading Chinese banks.

2023

- **October**
  Successfully tested the multi-parachute rescue system.
  Revealed the latest designs of the eVTOL and modular flying cars.

2024

- **March**
  The authority accepted the TC application for the modular flying car's air module.
- **July**
  Signed an investment agreement with Guangzhou Development District.
- **October**
  Construction of the flying car smart manufacturing facility started in Huangpu District.
- **November**
  First global public flight of the "Land Aircraft Carrier".

2025

- **July**
  Closed a $250 Million Series B funding.
- **September**
  Signed strategic cooperation agreement with RAKTA.

  The "Land Aircraft Carrier" obtained special flight permit in UAE.

  Construction of the smart manufacturing facility finished.

XPENG AEROHT Pre-Research Products

2016	2018	2019	2020	2021
Flying Motorcycle	Two-Seater Prototype	T1	X1	X2

R&D and Test Facilities

- Two Major R&D Centers

  Guangzhou R&D Center

  Shanghai R&D Center

- Three Major Test Bases

Ground Integrated Test Center

R&D Test Flight Center

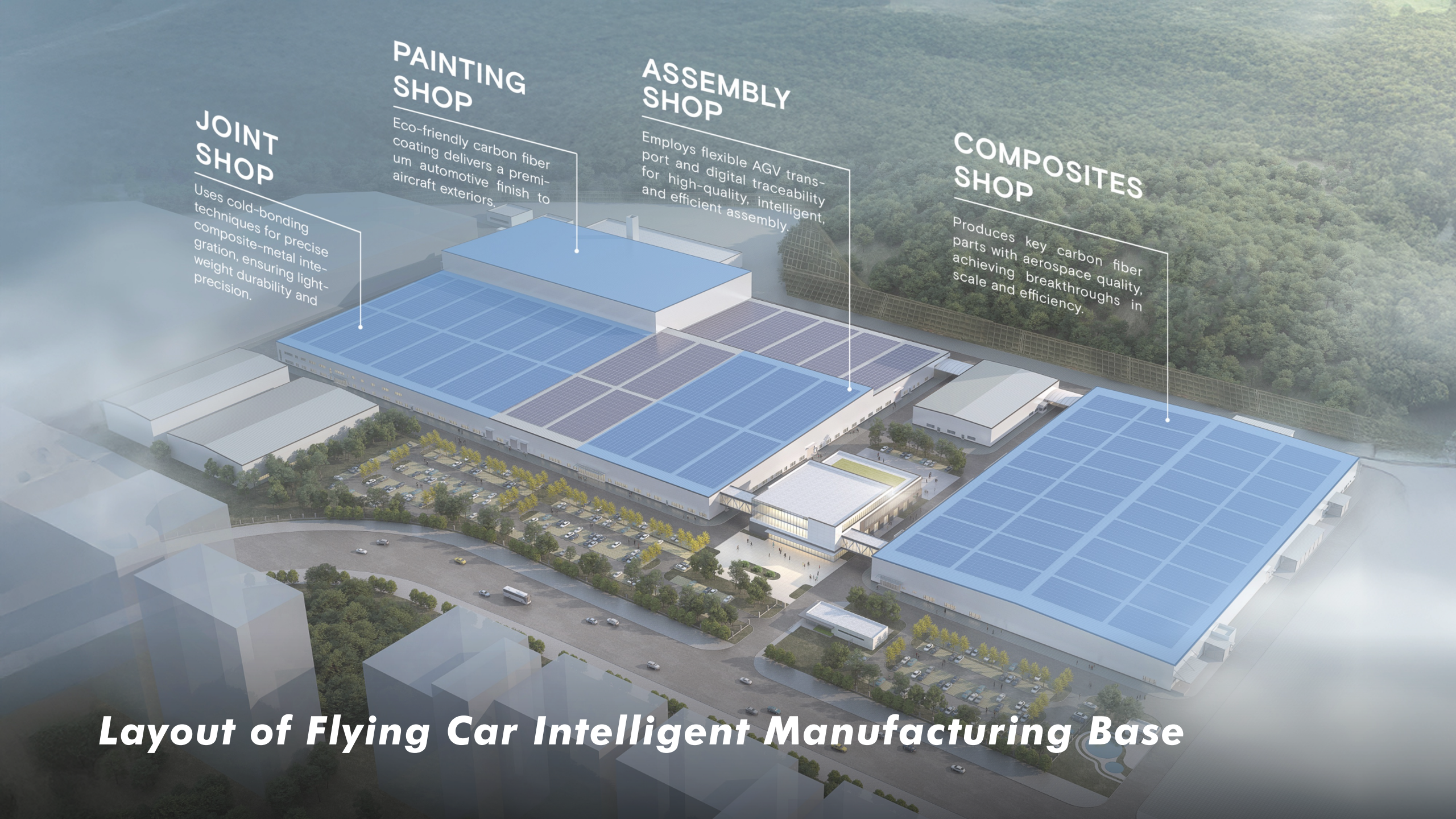
Powertrain Test Center

XPENG AEROHT Flying Car Intelligent Manufacturing Base

The world's first flying car factory to mass-produce using a modern assembly line

120,000 m²
Building Area

10,000 units
Planned Annual Capacity



Layout of Flying Car Intelligent Manufacturing Base

Core Management Team

Xiaopeng He

Chairman

Established UCWeb Inc.

Established UCWeb Inc. Jointly invested and established XPENG Motors.

Work as the Chairman and CEO of XPENG Motors.

Invested XPENG AEROHT.

Deli Zhao

Founder & President

Began to explore low-altitude manned air mobility in 2013.

The first person to create the flying motorcycle in China.

Tan Wang

Co-Founder & Vice President

Chief designer of XPENG AEROHT. Graduated from Dongseo University of Korea with a master's degree.

Won China Industrial Design Award (Gold Prize), IF Design Award, Red Dot Design Award, Red Star Design Award, and more.

Congwei Zheng

Co-Founder & Vice President

Worked as the R&D general manager in the startup team of UCWeb Inc.

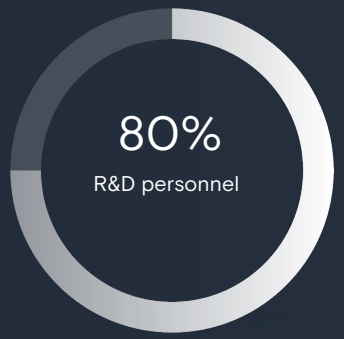
Worked as the general manager of game development in Alibaba.

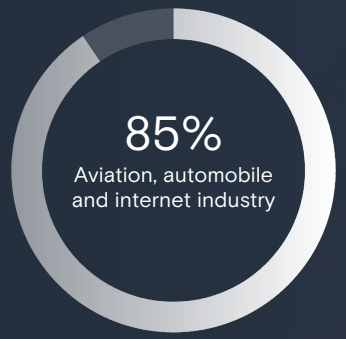
Work as the vice president of XPENG AEROHT.

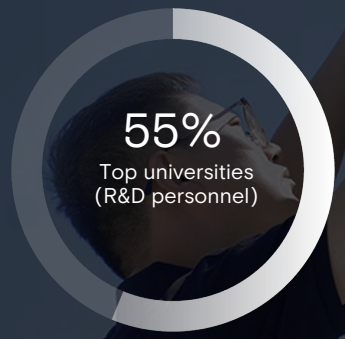
Team Composition

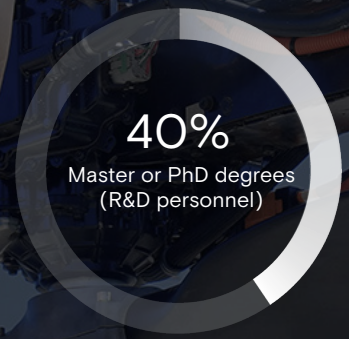
Our team brings together high-tech R&D experts across multiple domains of flying car development—including overall design, industrial design, aerodynamics, payload, structure, strength, integrated avionics, intelligent driving, and powertrain.

Including the Chinese head of the Z-15 program, the ARJ project management lead, chief designer for aerodynamics of the AG600, chief designer for avionics of the AG600, chief specialists in aerodynamics and flight testing for the C919, experts in the C919 flight control field, as well as experts in strength and loads from the 601 Institute.









Research Achievements

As of 2025, XPENG AEROHT has filed a total of ***965*** Chinese and international patents, including ***675*** invention patents, primarily focused on the core fields of flying car power systems, safety systems, avionics systems, autonomous driving, flight control, and overall flying car structures.

Notably, the exterior design patent of the X2 received the Silver Award for Exterior Design at the 14th China Patent Awards, and the patent for the “High-Safety and High-Reliability Flight Control Navigation System for Flying Cars” won the Gold Award at the 2024 Guangdong-Hong-Kong-Macao Greater Bay Area High-Value Patent Cultivation and Layout Competition, representing a significant milestone in our patent portfolio.

*Data as of July 2025

Capital Markets' Continued Optimism for the Flying Car Sector

Over $500 Million Series A Financing

On October 19, 2021, XPENG AEROHT completed a Series A financing round of over $500 million.

¥1.26 Billion Bank Group Loan

On April 1, 2025, five banks jointly provided XPENG AEROHT with a syndicated loan of ¥1.26 billion.

$250 Million Series B Financing

In July 2025, XPENG AEROHT secured $250 million in Series B financing.

Application Scenarios for Flying Cars

With the continuous improvement of products, policies, and regulations, the application scenarios for flying cars will gradually expand:

- Short Term: Fixed routes within cities and suburban flights
- Mid Term: Fixed networks within cities and intercity/interstate flights
- Long Term: Door-to-door, end-to-end, fully realizing 3D commuting

“Three Steps” Product Strategy

1
Limited Scenarios

2
Typical Scenarios

3
3D Transportation

1

Limited Scenarios

2

Typical Scenarios

3

3D Transportation

“Land Aircraft Carrier” Modular Flying Car

Unlock the Sky, Explore Without Boundaries

Putting the Aircraft into the Car

World's first in-vehicle automatic separation & reconnection mechanism
One-touch operation
Achieve automatic decoupling/coupling between ground and flight modes in just 5 minutes


Ground “Mothership”
A Six-Wheeled Vehicle Drivable with a Standard License
Spacious four-seater design enabling easy access to underground parking and effortless parking in standard spaces

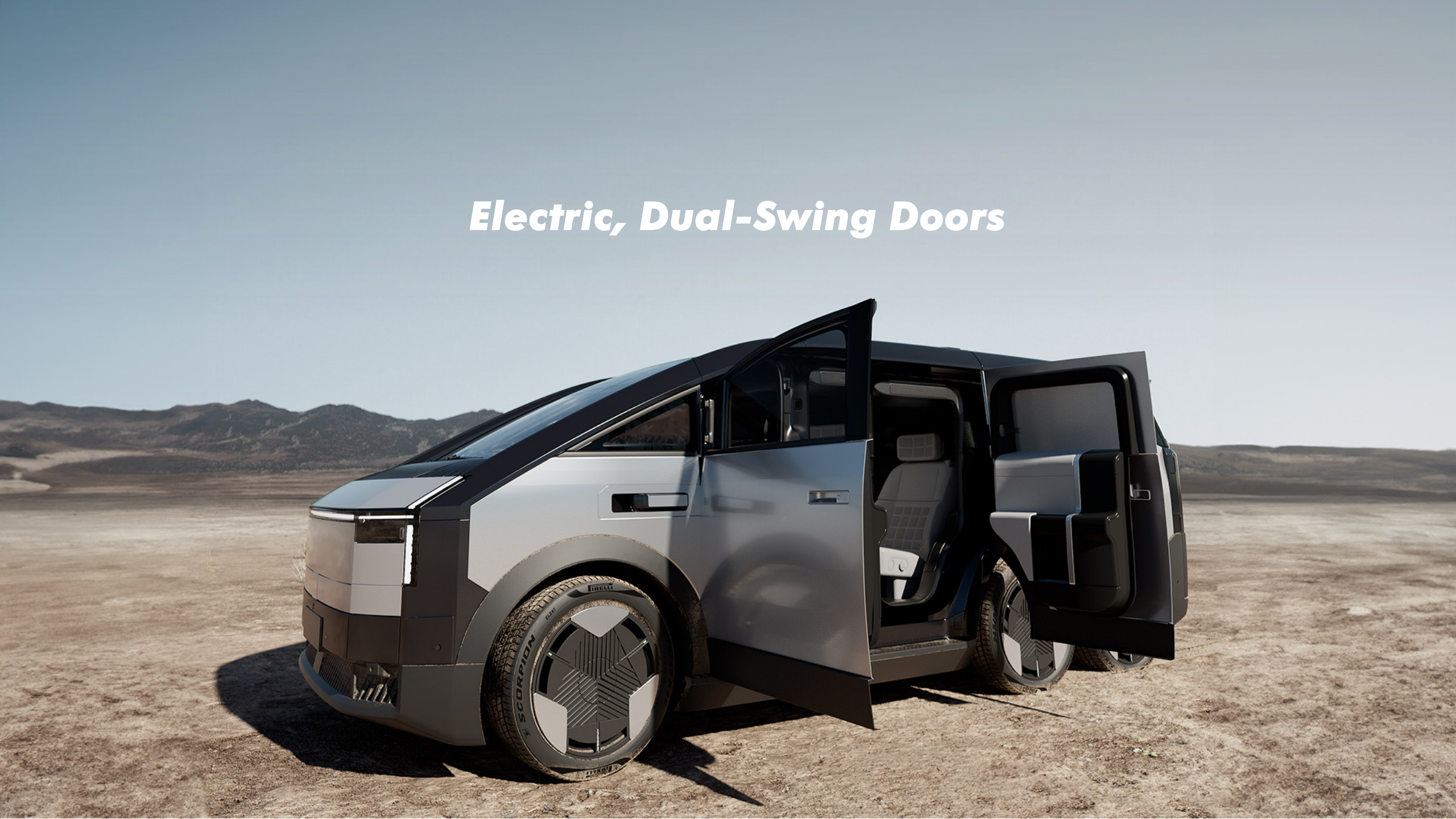
Lunar Rover for the Earth's Surface

Minimalist, sharp cyber-mech design language, embodying the futuristic appeal of a new species

Dedicated Storage Tail Compartment for the Aircraft

Oversized transparent glass reveals the aircraft subtly, creating undeniable allure


"Bridge" Integrated Headlight


Electric, Dual-Swing Doors

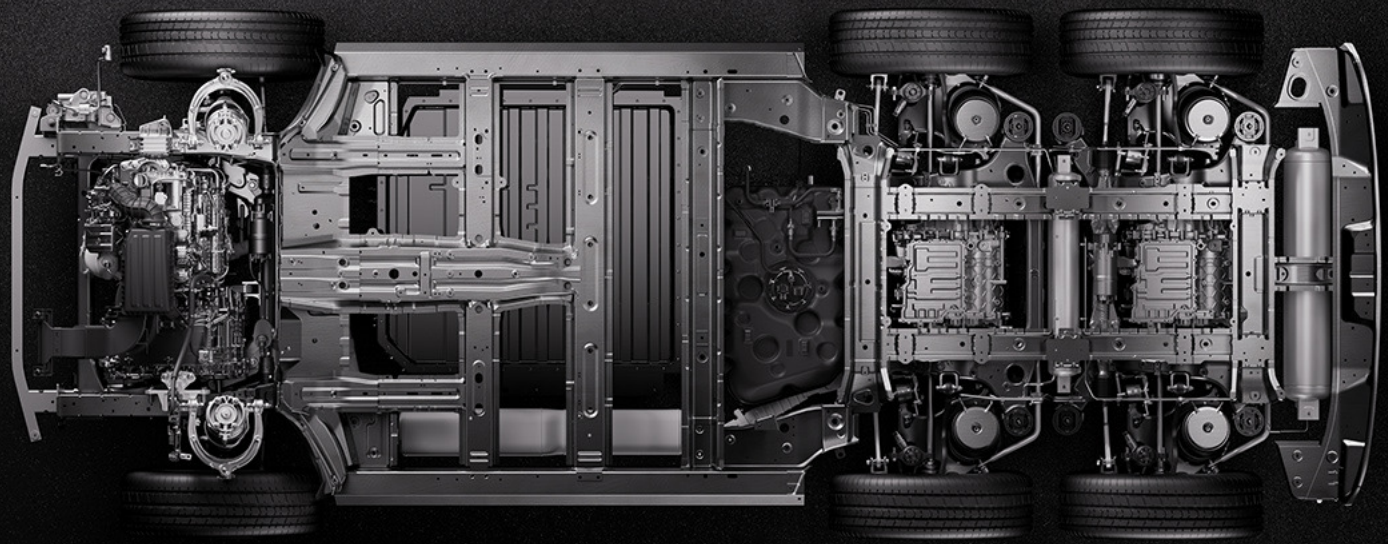

World's First 800V High-Voltage Silicon Carbide Extended-Range Power Platform
CLTC-compliant overall range exceeds 1,000 km
*Data Source: XPENG AEROHT Laboratory

Mobile Supercharging Station

Provides high-power recharging for the aircraft during both driving and parking
Full fuel and charge allow for 6 flights

Six-Wheel Chassis Suspension System

6x6 all-wheel drive with rear-wheel steering
Enhanced load-bearing and off-road capabilities



Electric Vertical Take-Off and Landing Aircraft

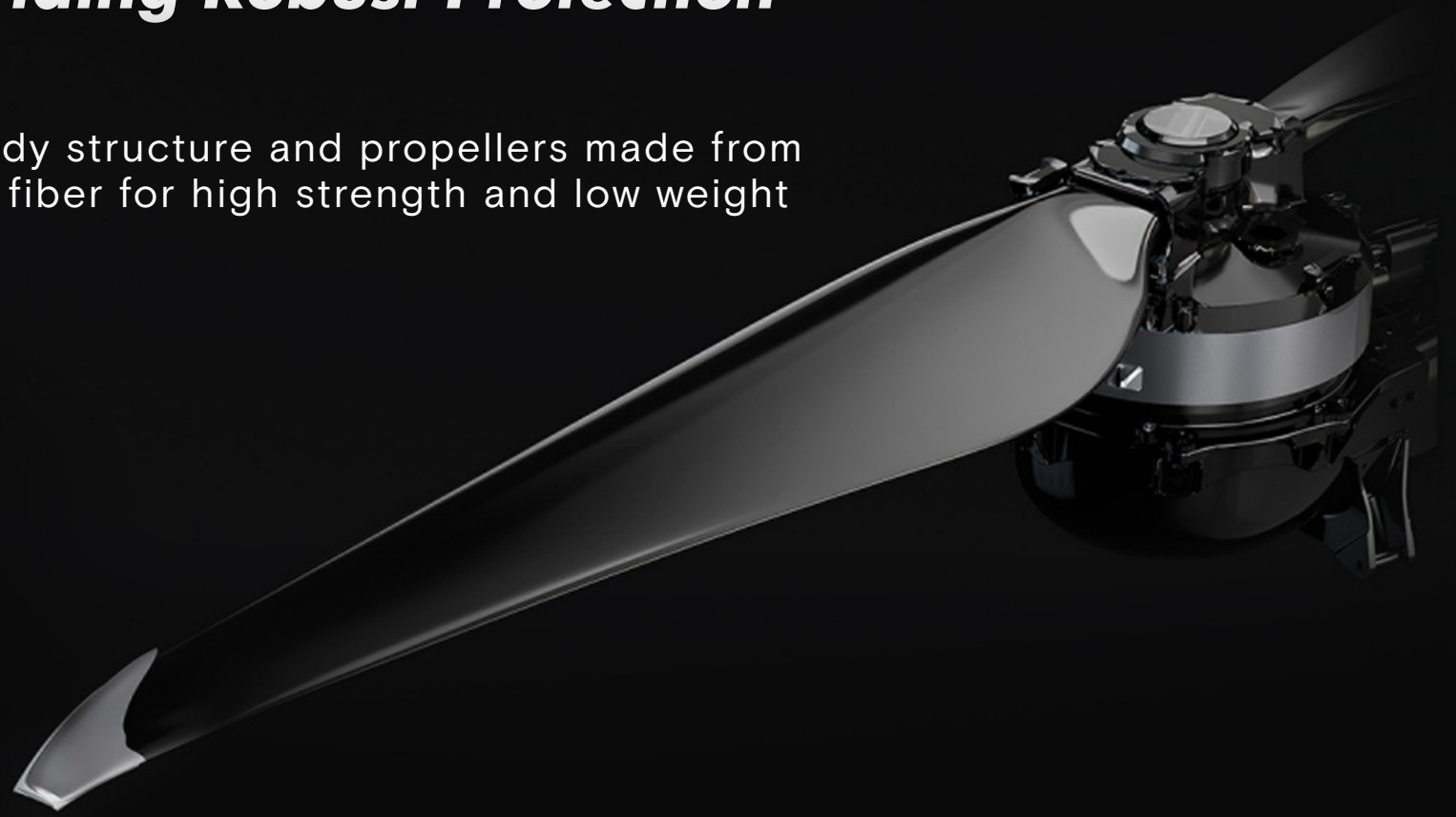
Innovative six-rotor dual-duct configuration
Foldable propellers and arms

270° Panoramic Cockpit

Constructed with polycarbonate glass windshield and large curved surface
Exceptionally lightweight yet 200 times more impact-resistant than standard glass

Carbon Fiber - The Lightweight Champion Providing Robust Protection

Main body structure and propellers made from carbon fiber for high strength and low weight



High-Efficiency, Energy-Saving In-Flight Air Conditioning

Remotely activated to ensure a comfortable flying experience

Super Battery

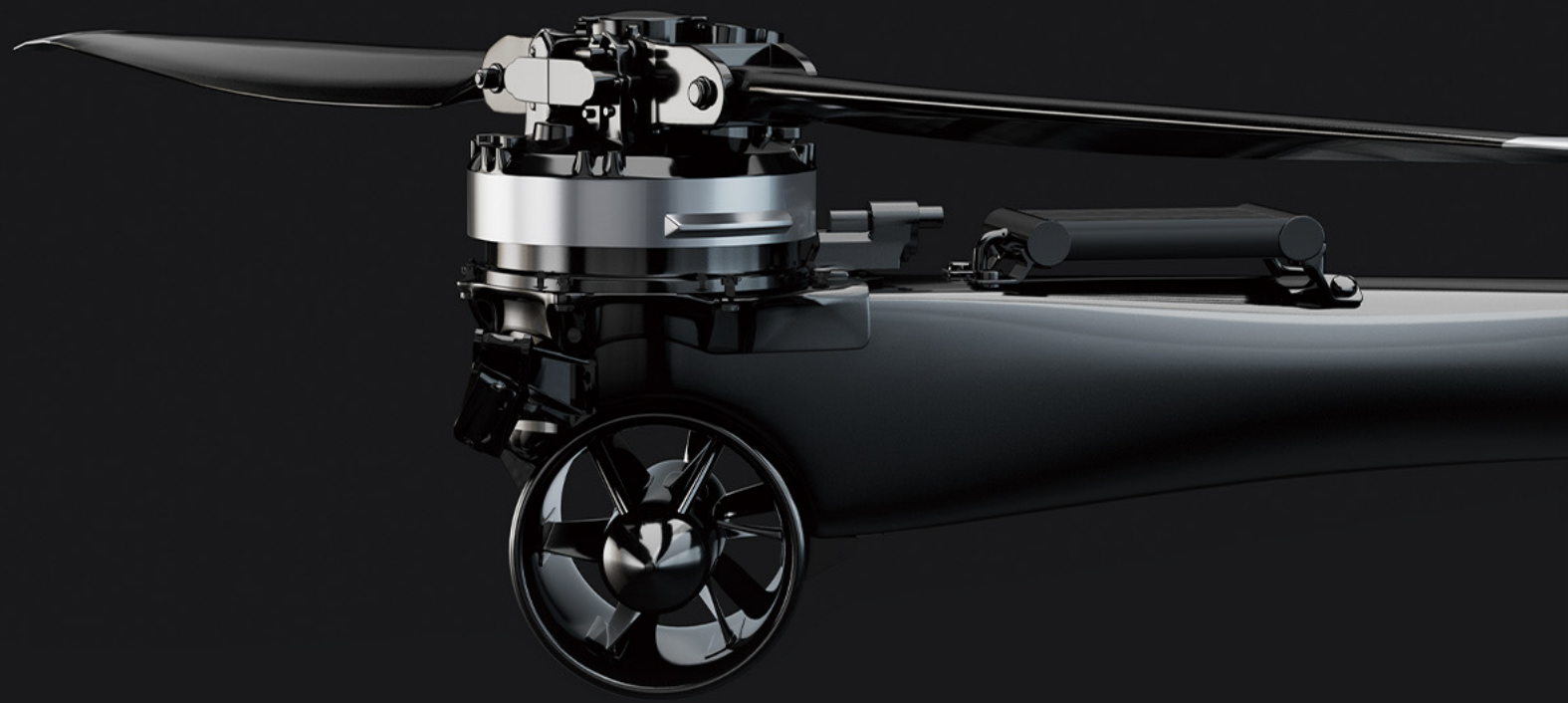
Integrated battery cell and body structure (CIB) that meets aerospace drop impact requirements
Equipped with AI real-time battery safety monitoring and multiple redundant safety controls for aerospace-grade thermal protection

Super Propulsion Unit

800V silicon carbide embedded power system

Features the highest rotational speed bidirectional high-voltage electric duct among peers

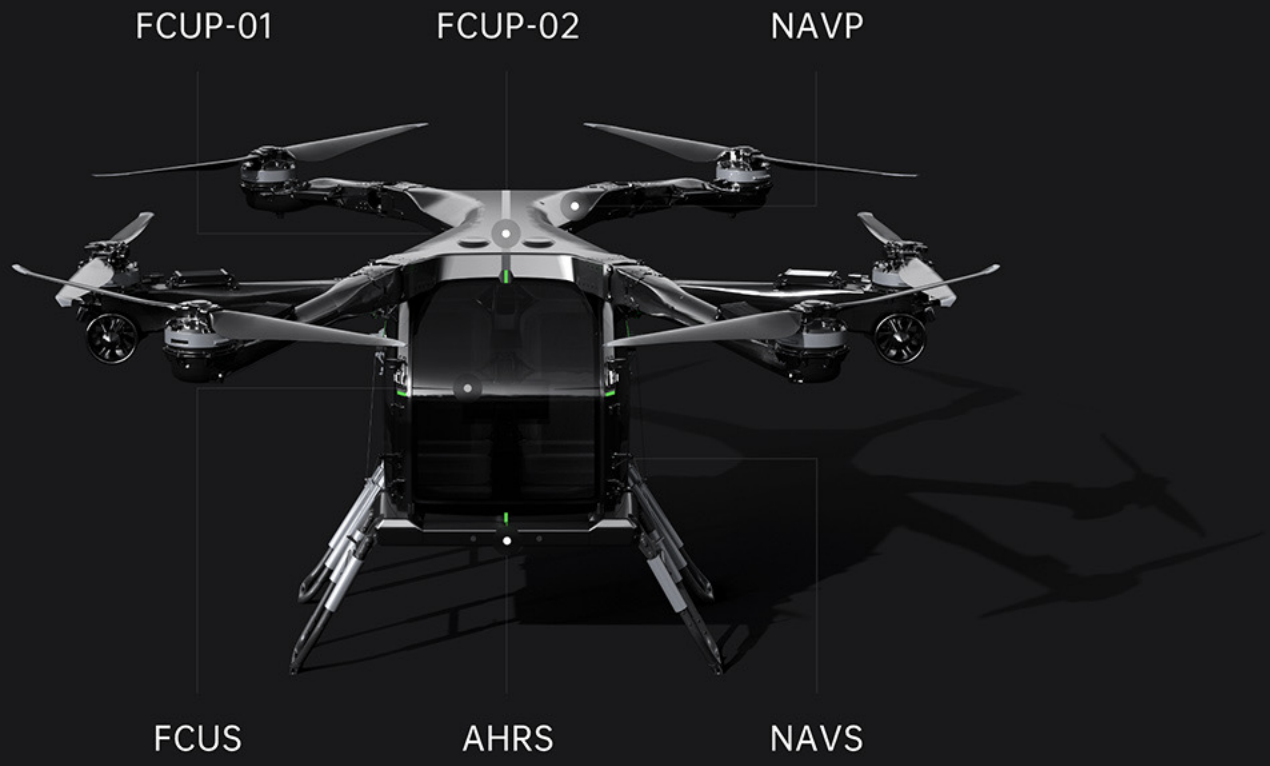
Millisecond-level power response with redundant communication control



Intelligent Flight Control & Navigation System

Triple redundant heterogeneous system to prevent flight control/navigation failures

Even if two systems fail, safe flight is still ensured



* FCUP-01/FCUP-02/FCUS: Flight Control Systems
NAVP/NAVS/AHRS: Navigation Systems

Intelligent Attitude Protection

Constantly maintains flight parameters within a safe range for stable and secure flight


Single-Lever Control System
Offers both manual and automatic driving modes
Flying has never been this simple

End-to-End Intelligent Flight Assistance

One-touch auto-takeoff
Achieves automatic route planning and flight

Multi-Dimensional Aerial Perception System

Ultra-Low Altitude 3D Stereo Flight Navigation

Multi-Dimensional Environmental Fusion Perception

Intelligent Collision Warning

Ultra-Wide-Angle Ground Assistance Imaging

Redundant Safety

Flight Control	Powertrain	Low-Vlotage Power Supply	Communications	Control Systems
Triple Redundancy	Dual Redundancy	Dual Redundancy	Dual Redundancy	Dual Redundancy

Establishing a Nationwide Flying Car Experience Network for Individual Users

Flying camps are strategically deployed along self-driving tourism routes and around urban areas, featuring takeoff and landing platforms with clear airspace conditions.

These camps offer users flight experiences, operational services, pilot training, and recreational activities.

As of the end of 2026, over **200** partnership agreements have been signed for such camps.

Public Service Application Scenarios

Emergency medical rescue

Short-distance obstacle-crossing rescue

Highway accident rescue

High-rise escape pod

Gradual Launch of the "Land Aircraft Carrier"

2025 Q3

Manufacturing Facility Completed

2025 Q4

TC Certification Obtained

2026 H1

Mass Production & Delivery

Airworthiness Milestones of the X3-F (Air Module of the Land Aircraft Carrier)


中国民用航空局
受理申请通知书

May 2025

The airframe of the Land Aircraft Carrier Production Certification application had been accepted by the Civil Aviation Administration of China. Marking the beginning of regulatory authority review of the mass production system for flying car products.

September 2024

In September 2024, the first Technical Certification Board (TCB) meeting for the XPENG AEROHT “Land Aircraft Carrier” X3-F type aircraft (X3-F is the internal codename) was held in Guangzhou, marking the full entry of the X3-F into the airworthiness review phase.


中国民用航空局
受理申请通知书

March 2024

In March 2024, the application for the model certificate (TC) for the flight body (codename: X3-F) of XPENG AEROHT’s “Land Aircraft Carrier” modular flying car was officially accepted by the Central South Regional Administration of the Civil Aviation Administration of China.

1

Limited Scenarios

2

Typical Scenarios

3

3D Transportation

Tilt-Rotor Flying Car

Ushering in a New Era of Urban Air Mobility

Range: ≥500 km

Cruise Speed: ≥360 km/h

6-Seater Flight Cockpit

Powered by Kunpeng Technology

1

Limited Scenarios

2

Typical Scenarios

3

3D Transportation

eVTOL Flying Car

Towards the Future of 3D Transportation

Our Mission

Freedom to Fly

User-Centric Approach

Focus on user needs, delivering products that are safe, intelligent, convenient, high-performing, and aesthetically appealing.

Technological Innovation

Drive innovation with in-house developed core technologies, focusing on practical applications rather than flashy gimmicks.

Connecting to a Better Life

Through product innovation, we aim to gradually address the needs for personal flight, air commuting, and public services.

Our Vision

Global Leader in Low-Altitude Product Innovations

From Explorer to Leader

- Focus on core technology investment and breakthroughs in low-altitude fields.
- Future goal to achieve some level of technology sharing.
- Drive leapfrog development of the low-altitude economy industry.

From Smart Manufacturing to Creative Innovation

- Innovate a new category of flying cars.
- Open up a new market for flying cars.
- Co-create a low-altitude ecosystem.

From China to Global

- Actively embrace international opportunities.
- Implement global expansion plans and develop future product strategies for the international market.


Beneath Starry Skies and Vast Horizons,
We Embark Together