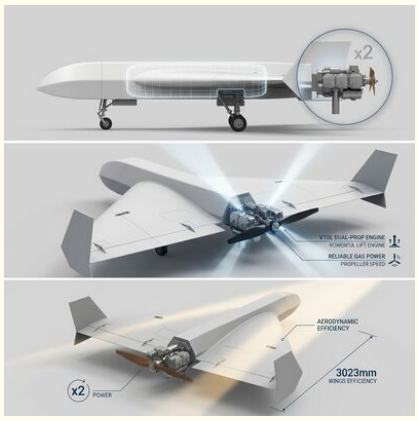
Gasoline Engine G.02 VTOL Fixed-Wing Heavy-Lift Gasoline UAV 3023mm Wingspan 49.9kg Payload 5345m Ceiling

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: GS
- Certification: CE, ISO, MIL-STD
- Model Number: G.02
- Minimum Order Quantity: 1
- Price: $50,000-$250,000
- Packaging Details: Military-standard transport case with pressure equalization valve
- Delivery Time: 47 working days
- Payment Terms: T/T, Western Union
- Supply Ability: 30



Product Specification

- Model: G.02
- Wingspan: 3023 Mm
- Length: 2936 Mm
- Airframe Material: Aviation Carbon Fiber Composite
- Engine: Gasoline Engine
- Payload: 49.9 Kg
- Take-off Mass: 131.3 Kg
- Cruise Speed: 59 M/s
- Endurance: 433 Min
- Max Range: 1147 Km
- Altitude: 5345 M
- Protection Degree: IPX4
- Temperature: -20°C ~ 50°C
- Wind Resistance: Take-off Level 5 / Cruising Level 5
- Launch Method: Runway Take-off

Product Description

G.02 Heavy-Lift Gasoline UAV

The **G.02** is a high-performance gasoline engine-powered VTOL fixed-wing unmanned aerial vehicle, engineered for **Offshore Supply**. Featuring a 3023mm wingspan and 49.9kg payload capacity, this UAV delivers exceptional 433-minute endurance and 1147km operational range. The entire airframe is constructed from **aviation-grade carbon fiber composite**, ensuring an optimal balance of structural strength and lightweight portability.

Equipped with an advanced flight control system and modular payload architecture, the G.02 supports rapid mission reconfiguration. Its VTOL capability eliminates the need for runways, enabling deployment from confined spaces. The IPX4 protection rating ensures reliable operation in challenging environmental conditions.

Key Features

Advanced VTOL Capability – Vertical takeoff and landing without runway infrastructure, deployable from ships, rooftops, or compact terrain

Full Carbon Fiber Airframe – Aerospace-grade composite construction for 91.9kg lightweight design with industry-leading strength-to-weight ratio

Gasoline Engine Power System – Optimized for 433min continuous flight with efficient fuel/energy management and redundant safety protocols

49.9kg Payload Capacity – Modular bay accommodates EO/IR cameras, LiDAR, SAR radar, communication relays, and custom mission equipment

1147km Operational Range – Beyond-line-of-sight capability with secure datalink and autonomous return-to-home fail-safe

IPX4 Environmental Protection – Reliable operation in rain, dust, and extreme temperatures from -20°C to 50°C

Specifications

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Length	2936 mm
Airframe Material	Aviation Carbon Fiber Composite
Engine	Gasoline Engine
Payload	49.9 kg
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Cruise Speed	59 m/s
Endurance	433 min

Max Range	1147 km
Service Ceiling	5345 m
Protection Degree	IPX4
Launch Method	Runway Take-off

FAQ

▼ **What missions is the G.02 best suited for?**

The G.02 is optimized for **Offshore Supply** operations, with its 49.9kg payload and 1147km range making it ideal for extended-duration missions requiring reliable beyond-line-of-sight communication.

▼ **Can the payload configuration be customized?**

Yes, the modular payload bay supports rapid swapping between EO/IR gimbals, LiDAR scanners, multispectral cameras, SAR systems, and communication relay equipment based on mission requirements.

▼ **How does the VTOL transition work?**

The G.02 uses a seamless transition flight controller that automatically manages the conversion from vertical hover to fixed-wing cruise flight, requiring no manual pilot intervention during transition.

▼ **What training is required to operate this UAV?**

Basic operator training typically takes 3-5 days, covering mission planning, pre-flight checks, emergency procedures, and data post-processing. Advanced payload operation training is available separately.

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