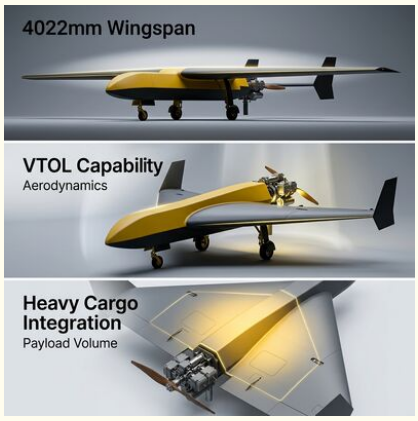
# Gasoline Engine G.05 VTOL Fixed-Wing Heavy-Lift Gasoline UAV 4022mm Wingspan 68.9kg Payload 3772m Ceiling

Our Product Introduction

## Basic Information

- Place of Origin: China
- Brand Name: GS
- Certification: CE, ISO, MIL-STD
- Model Number: G.05
- Minimum Order Quantity: 1
- Price: $50,000-$250,000
- Packaging Details: Military-standard transport case with pressure equalization valve
- Delivery Time: 34 working days
- Payment Terms: T/T
- Supply Ability: 100




## Product Specification

- Model: G.05
- Wingspan: 4022 Mm
- Length: 3245 Mm
- Airframe Material: Aviation Carbon Fiber Composite
- Engine: Gasoline Engine
- Payload: 68.9 Kg
- Take-off Mass: 128.3 Kg
- Cruise Speed: 42 M/s
- Endurance: 467 Min
- Max Range: 486 Km
- Altitude: 3772 M
- Protection Degree: IPX4
- Temperature: -20°C ~ 50°C
- Wind Resistance: Take-off Level 5 / Cruising Level 5
- Launch Method: Catapult Launch

*Product Description*

## G.05 Heavy-Lift Gasoline UAV

The **G.05** is a high-performance gasoline engine-powered VTOL fixed-wing unmanned aerial vehicle, engineered for **Heavy Equipment Transport**. Featuring a 4022mm wingspan and 68.9kg payload capacity, this UAV delivers exceptional 467-minute endurance and 486km 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.05 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 89.8kg lightweight design with industry-leading strength-to-weight ratio

**Gasoline Engine Power System** – Optimized for 467min continuous flight with efficient fuel/energy management and redundant safety protocols

**68.9kg Payload Capacity** – Modular bay accommodates EO/IR cameras, LiDAR, SAR radar, communication relays, and custom mission equipment

**486km 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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| **Airframe Material** | Aviation Carbon Fiber Composite |
| **Engine** | Gasoline Engine |
| **Payload** | 68.9 kg |
| **Maximum Takeoff Weight** | 128.3 kg |
| **Cruise Speed** | 42 m/s |
| **Endurance** | 467 min |

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| **Max Range** | 486 km |
| **Service Ceiling** | 3772 m |
| **Protection Degree** | IPX4 |
| **Launch Method** | Catapult Launch |

## FAQ

▼ **What missions is the G.05 best suited for?**

The G.05 is optimized for **Heavy Equipment Transport** operations, with its 68.9kg payload and 486km 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.05 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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