

Drone Science Popularization Brochure

- Intelligent Overload Unmanned Aerial Platform
- Low-Cost Unmanned Aircraft System
- Composite Wing Unmanned Aircraft System
- Coaxial Rotor Unmanned Aircraft System



PRODUCT NAME: Mk-18

INTRODUCTION

The Mk-18 drone features a small size and light weight, making it easy to assemble and disassemble. It can be vehicle-mounted (a pickup truck can carry 6-8 units) or carried by a single soldier to the mission site. This model utilizes a Brushless Motor power system and can switch between cruise reconnaissance mode and tethered mode. It achieves a maximum speed of 120 kilometers per hour, with a cruising reconnaissance endurance speed of 90 kilometers per hour. The reconnaissance radius is 25 kilometers. Integrated on the aircraft platform are various sensors and payloads including visible light, infrared, and transmission imagery, along with high-sensitivity fire detection algorithms.

APPLICATION

Intelligent Overload Unmanned Aerial Platform

PHYSICAL PROPERTIES

- Cruising speed: 90 km/h;
- Maximum speed: 120 km/h;
- Takeoff weight: 18 kg;
- Payload: 12 kg;
- Fuel: Lithium battery / generator (tethered);
- Wind resistance level: ≥ 45 km/h;
- Ceiling: 4000 m;
- Endurance: > 60 min.



FUNCTIONS

- Information Gathering
- Reconnaissance
- Communication Relay
- Tethered Formation Flying
- Exploration and Calibration
- Search and Rescue Guidance

MECHANISM DESCRIPTION

Implementing tasks such as information gathering, communication support, situational awareness, transport delivery, supply replenishment, and accompanying breakthroughs in harsh climate conditions, complex geographical environments such as plateaus, canyons, remote seas, and mountainous regions.

PERFORMANCE

- Strong Universality and Applicability: The entire aircraft adopts a modular design, with low maintenance costs and high operational efficiency. It features autonomous landing capability for stable and reliable operation, ensuring mission safety. With strong environmental adaptability, the aircraft has an IP67 protection rating, making it suitable for various harsh environments. It is compact and lightweight, allowing for quick deployment and high portability. With multiple preset electrical and electronic interfaces, it can quickly carry various types of mission payloads, adapting to different mission scenarios.
- Multi-dimensional and Multi-profile Mission Capability: Comprehensive stealth design is achieved through appearance, surface technology, and materials, combined with wide-field optical-electronic detection equipment and AI recognition algorithms to achieve autonomous perception capabilities. It has the ability for terrain-following flight, autonomous obstacle avoidance, and autonomous route planning.

PRODUCT NAME: Mk-70

INTRODUCTION

The Mk-50/60 drone integrates a turboshaft engine and an electric motor into one unit, featuring a compact size, quick transportation, and portability. It can be rapidly assembled and disassembled, and it is suitable for vehicle transport (a pickup truck can carry 3-4 units) or airborne deployment to the designated location to commence the mission.

APPLICATION

Intelligent Overload Unmanned Aerial Platform

PHYSICAL PROPERTIES

- Power system: Turboshaft engine;
- Cargo volume: 420L;
- Cruising speed: 100 km/h;
- Maximum speed: 140 km/h;
- Takeoff weight: 65.5 kg;
- Payload: 39.5 kg;
- Fuel: Aviation kerosene;
- Wind resistance level: ≥ 60 km/h;
- Ceiling: 5000 m;
- Endurance: 4 hours.



FUNCTIONS

- Information Collection
- Reconnaissance
- Communication Relay
- Tethered Formation Flying
- Exploration and Calibration
- Search and Rescue Guidance
- Transport and Delivery

PERFORMANCE

- Strong Universality and Applicability: The entire aircraft adopts a modular design, with low maintenance costs and high operational efficiency. It features autonomous landing capability for stable and reliable operation, ensuring mission safety. With strong environmental adaptability, the aircraft has an IP67 protection rating, making it suitable for various harsh environments. It is compact and lightweight, allowing for quick deployment and high portability. With multiple preset electrical and electronic interfaces, it can quickly carry various types of mission payloads, adapting to different mission scenarios.
- Multi-dimensional and Multi-profile Mission Capability: Comprehensive stealth design is achieved through appearance, surface technology, and materials, combined with wide-field optical-electronic detection equipment and AI recognition algorithms to achieve autonomous perception capabilities. It has the ability for terrain-following flight, autonomous obstacle avoidance, and autonomous route planning.

PRODUCT NAME: Mk-400

INTRODUCTION

The Mk-400 drone boasts a takeoff weight of 360kg, with a body length of only 2.55m. After deployment, it can take off from roads, requiring minimal site conditions and exhibiting strong adaptability, making modular resupply feasible. This series of drones can achieve a maximum airspeed of 200 kilometers per hour, an endurance of up to 8 hours, and a payload capacity of 250 kilograms for material delivery.

APPLICATION

Intelligent Overload Unmanned Aerial Platform

PHYSICAL PROPERTIES

- Power system: Turboshaft engine;
- Cargo volume: 2800L (length 2550mm, width 890mm, height 1230mm);
- Cruising speed: 150 km/h;
- Maximum speed: 200 km/h;
- Takeoff weight: 360 kg;
- Payload: 250 kg;
- Fuel: Aviation kerosene;
- Wind resistance level: ≥ 7 -8 grade km/h;
- Ceiling: 6000 m;
- Endurance: 8 hours.



FUNCTIONS

- Information Collection
- Reconnaissance
- Communication Relay
- Tethered Formation Flying
- Exploration and Calibration
- Search and Rescue Guidance
- Transport and Delivery
- Emergency Response
- Combat Support

MECHANISM DESCRIPTION

Implementing tasks such as information gathering, communication support, situational awareness, transport delivery, supply replenishment, and accompanying breakthroughs in harsh climate conditions, complex geographical environments such as plateaus, canyons, remote seas, and mountainous regions.

PERFORMANCE

- All models in this series are high-performance flight platforms: equipped with domestically produced turbo shaft engines, globally leading fully enveloped flight control algorithms and multi-sampling rate avionics systems, and the highest 1:1.98 empty-to-loaded weight ratio in the world.
- Strong Universality and Applicability: The entire aircraft adopts a modular design, with low maintenance costs and high operational efficiency. It features autonomous landing capability for stable and reliable operation, ensuring mission safety. With strong environmental adaptability, the aircraft has an IP67 protection rating, making it suitable for various harsh environments. It is compact and lightweight, allowing for quick deployment and high portability. With multiple preset electrical and electronic interfaces, it can quickly carry various types of mission payloads, adapting to different mission scenarios.
- Multi-dimensional and Multi-profile Mission Capability: Comprehensive stealth design is achieved through appearance, surface technology, and materials, combined with wide-field optical-electronic detection equipment and AI recognition algorithms to achieve autonomous perception capabilities. It has the ability for terrain-following flight, autonomous obstacle avoidance, and autonomous route planning.

PRODUCT NAME: XF-10

INTRODUCTION

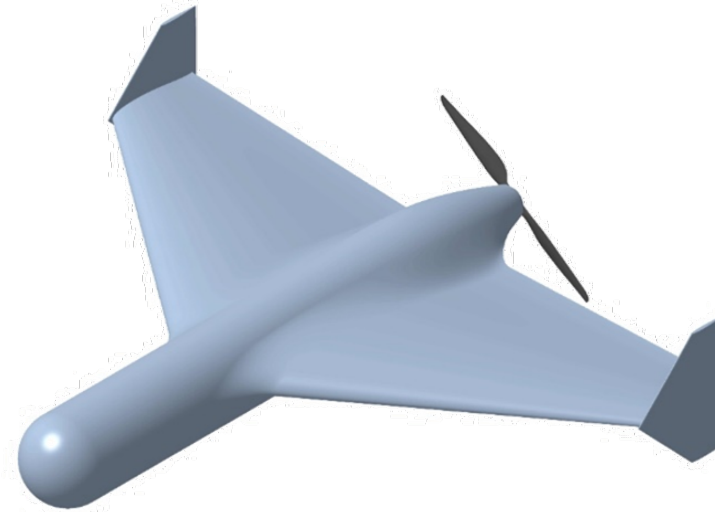
The 10kg-class low-cost UAV system is a portable, cost-effective, and modular drone product. It adopts a flying-wing layout with a rear propulsion design. The internal payload compartment of the fuselage can carry a maximum of 3kg of payload, and it can be equipped with various mission payloads according to customer requirements.

APPLICATION

Low-Cost Unmanned Aircraft System

PHYSICAL PROPERTIES

- Wingspan: 1.20m;
- Wing area: 0.48m²;
- Length: 1.10m;
- Takeoff weight: 10kg;
- Payload: 2-3kg;
- Cruising speed: 100-120km/h;
- Maximum flight speed: 150km/h;
- Stall speed at sea level: ≤60km/h;
- Practical ceiling: 3500m;
- Endurance: ≥40min;
- Control distance: 30km, 60km (optional);
- Wind resistance level: Grade 6;
- Takeoff & landing method: Catapult/stall landing.



FUNCTION

- Long-range Precision Strikes

MECHANISM DESCRIPTION

Targeting missions in harsh climate conditions and complex geographical environments, conducting efficient reconnaissance, long-range strikes, and precision strikes.

PERFORMANCE

- High Payload Capacity, Long Endurance: A powerful propulsion system supports heavy payloads and long-duration operations.
- Efficient Operations: Rocket boost for rapid deployment to designated locations.
- Excellent Aerodynamic Design: Utilizes a delta wing layout with rear-mounted propulsion for optimal aerodynamic performance.
- Long-range Precision Strikes: Meets various combat mission requirements.

PRODUCT NAME: XF-20

INTRODUCTION

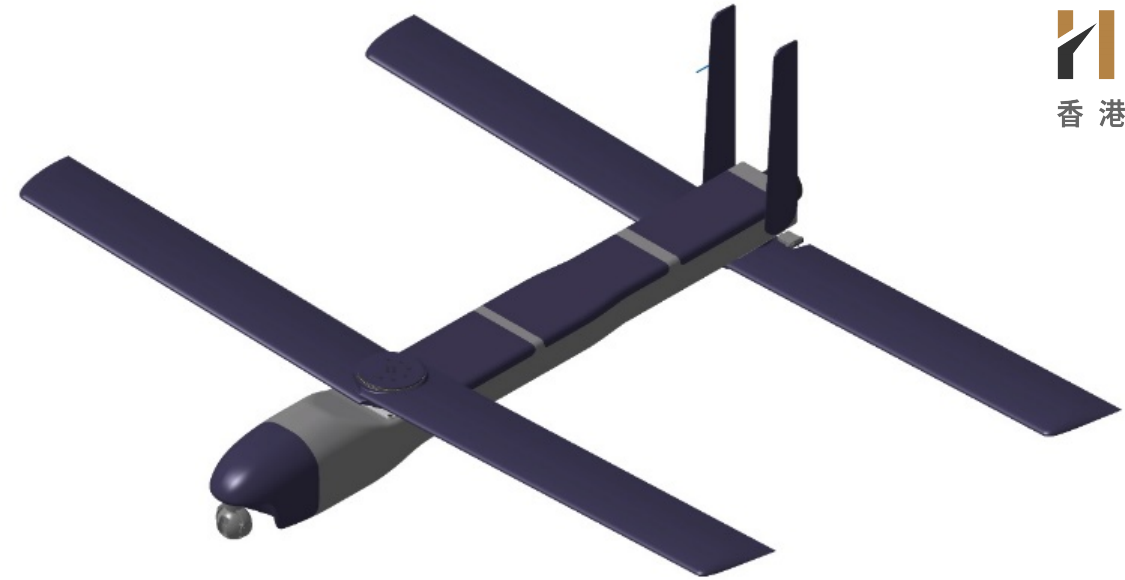
The 20kg-class low-cost surveillance UAV system is a small foldable-wing unmanned system with the advantages of low cost, compact size, quick deployment and launch, and swarm-like operations. It can be used for low-altitude reconnaissance, as well as static and dynamic target engagement.

APPLICATION

Low-Cost Unmanned Aircraft System

PHYSICAL PROPERTIES

- Wingspan: 1.916m;
- Wing area: 0.647m²;
- Length: 1.56m;
- Maximum takeoff weight: 20kg;
- Maximum payload: 7.5kg;
- Cruising speed: 110-130km/h;
- Maximum flight speed: 180km/h;
- Practical ceiling: 5000m;
- Maximum takeoff altitude: ≥3500m;
- Maximum endurance: ≥40min;
- Telemetry distance: ≥30km;
- Wind resistance level: Grade 5;
- Power system: All-electric drive;
- Terminal guidance mode: Visible light or infrared;
- Launch method: Cold gas cylinder launch;
- Recovery method: Non-recovery/parachute descent.



FUNCTION

- Efficient Surveillance
- Precision Strikes

MECHANISM DESCRIPTION

Targeting missions in harsh climate conditions and complex geographical environments, conducting efficient reconnaissance, long-range strikes, and precision strikes.

PERFORMANCE

- Efficient Electric Power System: The efficient electric power system provides the necessary thrust for cruising. Paired with high-energy-density lithium batteries, it ensures longer endurance.
- Brushless motor power system with low noise levels and high efficiency.
- Strong Environmental Adaptability: The drone utilizes a high-pressure pneumatic catapult launcher, providing strong environmental adaptability and enabling quick deployment and launch, ensuring convenience of use.
- Fully Autonomous + Swarm Flight Control: Supports fully autonomous flight during mission operations and facilitates multi-drone formation flying. Supports various formation types such as line, triangle, and fan for different mission scenarios.

PRODUCT NAME: XF-90

INTRODUCTION

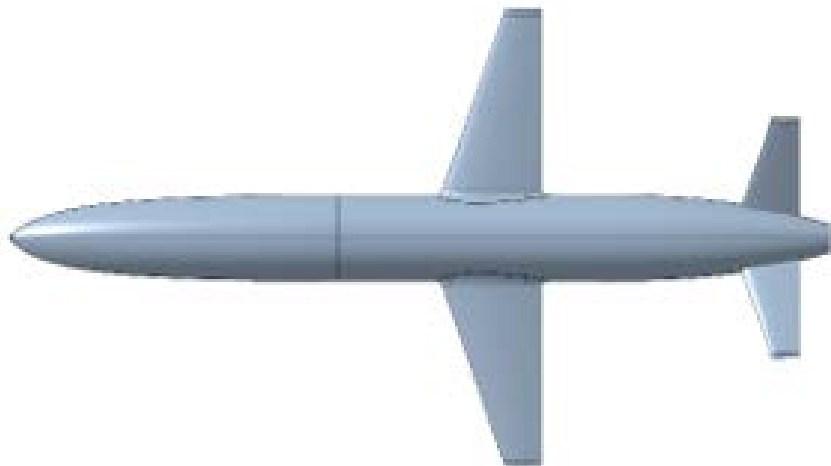
The 90kg-class subsonic target drone is a subsonic stealth target drone. It can be equipped with small electronic warfare jammers, decoy projectiles, chaff, radar reflectors, and flares, capable of simulating the infrared, radar, and electronic warfare characteristics of fighter jets, cruise missiles, and anti-ship missiles. It provides a small, versatile stealth target for weapon equipment testing, military training, and exercise rehearsals.

APPLICATION

Low-Cost Unmanned Aircraft System

PHYSICAL PROPERTIES

- Wingspan: 1.60m;
- Wing area: 0.42m²;
- Length: 2.85m;
- Maximum takeoff weight: 90kg;
- Mission payload: 15kg;
- Cruising speed: 75-130m/s;
- Maximum flight speed: 190m/s;
- Minimum level flight speed at sea level: ≤55m/s;
- Practical ceiling: 5000m;
- Endurance: ≥40min;
- Control distance: 100km;
- Radar Cross Section (RCS): 0.01m² (at 15° forward);
- Maneuverability: 5g;
- Takeoff and landing method: Catapult, rocket-assisted.



FUNCTION

- Efficient Surveillance
- Precision Strikes

MECHANISM DESCRIPTION

Targeting missions in harsh climate conditions and complex geographical environments, conducting efficient reconnaissance, long-range strikes, and precision strikes.

PERFORMANCE

- Heavy Payload Capacity, Long Endurance: A powerful propulsion system supports heavy payloads and long-duration operations.
- Efficient Operations: Rocket boost for rapid deployment to designated locations.
- Excellent Aerodynamic Design: Utilizes a delta wing layout with rear-mounted propulsion for optimal aerodynamic performance.
- Long-range Precision Strikes: Meets various combat mission requirements.

PRODUCT NAME: XF-200

INTRODUCTION

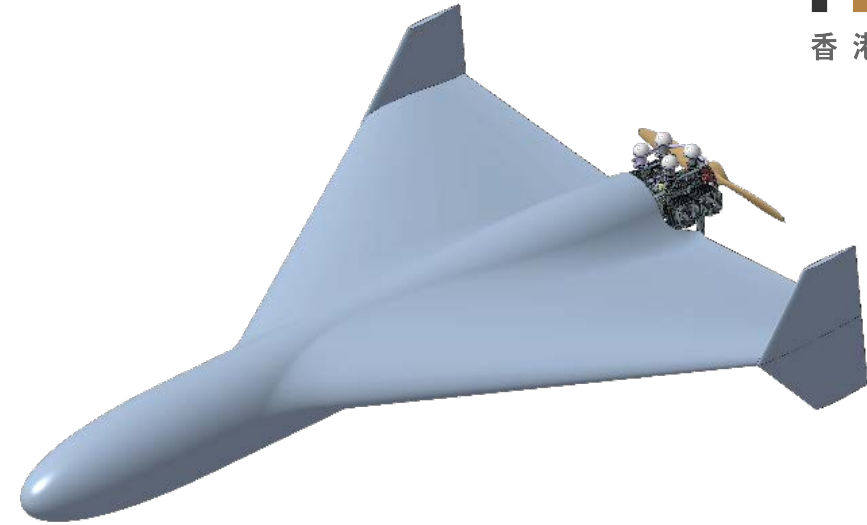
The 200kg-class tactical strike drone is a tactical strike drone system designed to neutralize enemy air defenses and effectively destroy enemy military bases, facilities, or structures. Its low cost and short production cycle support achieving saturation strikes on the battlefield. The drone adopts a low aspect ratio flying-wing aerodynamic layout, providing a certain level of stealth capability while carrying a larger payload. The drone's power system is the E560-b5 electronically controlled fuel injection engine, utilizing rocket-assisted takeoff, with a maximum takeoff weight of 200kg and a payload capacity of 50kg. It has a theoretical maximum range of 1800 kilometers. It can be equipped with various mission payloads according to user requirements, meeting diverse operational needs.

APPLICATION

Low-Cost Unmanned Aircraft System

PHYSICAL PROPERTIES

- Wingspan: 2500mm;
- Wing area: 4m²;
- Length: 3500mm;
- Height: 600mm;
- Maximum takeoff weight: 200kg;
- Maximum mission payload: 50kg;
- Cruising speed: 180km/h;
- Maximum flight speed: 216km/h;
- Practical ceiling: 5000m;
- Maximum takeoff altitude: ≥3500m;
- Maximum endurance: ≥10h;
- Wind resistance level: 7.



FUNCTION

- Efficient Surveillance
- Precision Strikes

MECHANISM DESCRIPTION

Targeting missions in harsh climate conditions and complex geographical environments, conducting efficient reconnaissance, long-range strikes, and precision strikes.

PERFORMANCE

- Heavy Payload Capacity, Long Endurance: A powerful propulsion system supports heavy payloads and long-duration missions.
- Efficient Operations: Rocket-assisted propulsion enables rapid deployment to designated locations.
- Excellent Aerodynamic Design: Utilizes a delta wing layout with rear-mounted propulsion for optimized aerodynamic performance.
- Long-range Precision Strikes: Capable of fulfilling various combat mission requirements.

PRODUCT NAME: MH-001A

INTRODUCTION

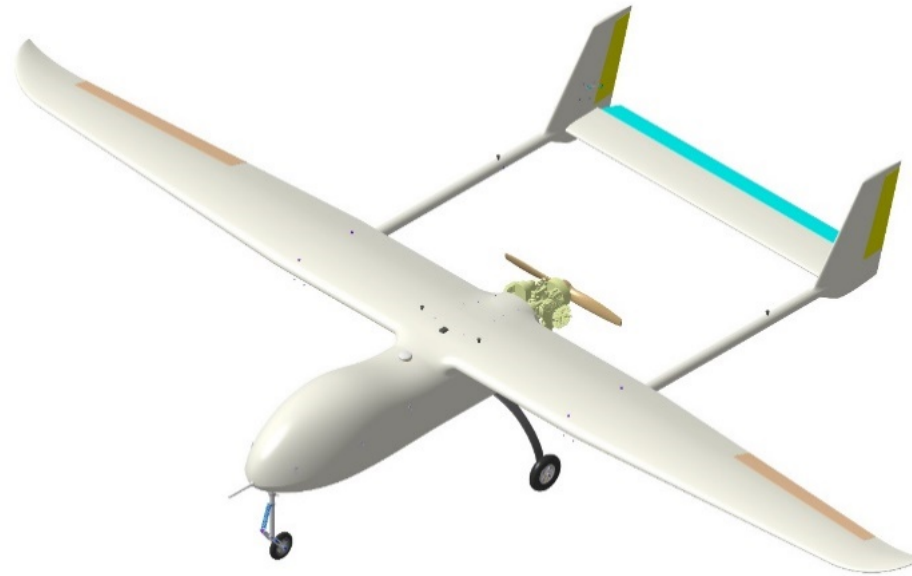
MH-001A is a long-endurance reconnaissance and surveillance drone system. It features a high aspect ratio wing with a blended winglet design to improve cruise lift-to-drag ratio. The tail adopts a twin-tail boom layout, and it uses a pusher-type propulsion layout, with the engine located at the rear of the fuselage. It has a tricycle landing gear configuration, with the nose gear located at the front of the fuselage and the main gear at the rear. It utilizes normal wheel-based takeoff and landing operations. The effective payload capacity can reach up to 50kg and can be equipped with satellite communication equipment, multispectral electro-optical payloads, radar, communication relay devices, among others. Its maximum endurance can reach up to 10 hours.

APPLICATION

Composite Wing Unmanned Aircraft System

PHYSICAL PROPERTIES

- Wingspan: 6.30m
- Length: 3.60m
- Height: 1.20m
- Maximum takeoff weight: 150kg
- Maximum payload: 50 kg
- Cruising speed: 110~130km/h
- Maximum speed: 160 km/h
- Practical ceiling: 5000m
- Maximum endurance: 10 h
- Communication distance: 150km



FUNCTION

- Information Collection
- Reconnaissance
- Exploration and Calibration
- Search and Rescue Guidance
- Communication Relay

MECHANISM DESCRIPTION

In missions across challenging climates and complex terrains like plateaus, canyons, remote seas, and mountainous regions, tasks include information gathering, communication support, situational awareness, and transport delivery.

PERFORMANCE

- Heavy Payload Capacity, Long Endurance: A powerful propulsion system supports heavy payloads for long-duration missions.
- Quick Vertical Takeoff and Landing: Ignores terrain, enabling convenient and rapid takeoff and landing.
- Excellent Aerodynamic Design: Utilizes a twin-tail H-tail layout with rear-mounted propulsion for optimized aerodynamic performance.
- Compatible with Multiple Payload Modules: Meets the requirements of multi-task operations.

PRODUCT NAME: MH-001B

INTRODUCTION

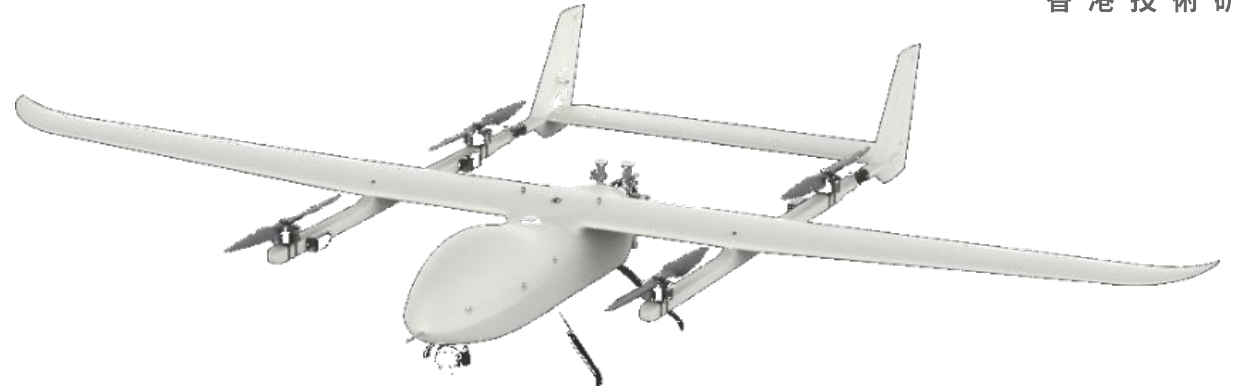
MH-001B is a large payload vertical takeoff and landing (VTOL) fixed-wing unmanned aerial vehicle (UAV) system, designed for versatile applications with vertical takeoff and landing capabilities and a large payload capacity. It features modularity, high reliability, and quick deployment. The aircraft adopts a twin-tail boom H-tail layout and a pusher-type propulsion design. It can carry a maximum payload of 30kg internally, and an additional 24kg of payload externally for airdrop missions. It can be equipped with various mission payloads according to user requirements, meeting the demands of multi-role operations.

APPLICATION

Composite Wing Unmanned Aircraft System

PHYSICAL PROPERTIES

- | | |
|--------------------------|----------|
| • Endurance: | 5h |
| • Effective payload: | 30kg |
| • Fuel capacity: | 36L |
| • Takeoff weight: | 140kg |
| • Maximum flight speed: | 160km/h |
| • Wind resistance level: | 7 |
| • Control distance: | 50/100km |



FUNCTION

- Information Gathering
- Reconnaissance
- Exploration and Calibration
- Search and Rescue Guidance
- Communication Relay

MECHANISM DESCRIPTION

In missions across challenging climates and complex terrains like plateaus, canyons, remote seas, and mountainous regions, tasks include information gathering, communication support, situational awareness, and transport delivery.

PERFORMANCE

- Heavy Payload Capacity, Long Endurance: A powerful propulsion system supports heavy payloads for extended missions.
- Quick Vertical Takeoff and Landing: Enables rapid takeoff and landing, disregarding terrain obstacles.
- Excellent Aerodynamic Design: Utilizes a twin-tail H-tail layout with rear-mounted propulsion for optimized aerodynamic performance.
- Compatible with Multiple Payload Modules: Meets the requirements of multi-task operations.

PRODUCT NAME: MH-005B

INTRODUCTION

MH-005B is a large payload vertical takeoff and landing (VTOL) fixed-wing unmanned aerial vehicle (UAV) system, designed for versatile applications with vertical takeoff and landing capabilities and a large payload capacity. It features modularity, high reliability, and quick deployment. The aircraft adopts a hybrid power system, with a twin-tail boom inverted V-tail layout and a pusher-type propulsion design. It has a maximum takeoff weight of 200kg, a maximum payload of 50kg, and a maximum flight speed of 150km/h. With a maximum endurance of 5 hours (with a 45kg payload), it can be used in various fields such as meteorological research, scientific research support, reconnaissance, surveillance, and emergency response. It can be equipped with various mission payloads according to customer requirements, meeting the demands of multi-role operations.

APPLICATION

Composite Wing Unmanned Aircraft System

PHYSICAL PROPERTIES

- Wingspan: 6.90m;
- Wing area: 3.8m²;
- Length: 4.25m;
- Height: 1.45m;
- Takeoff weight: 160~200kg;
- Mission payload: 30~50kg;
- Cruising speed: 110~140km/h;
- Maximum flight speed: 150km/h;
- Stall speed at sea level: ≤80km/h;
- Service ceiling: 5000m;
- Maximum takeoff altitude: 3500m;
- Endurance: ≥5h (110km/h, 45kg payload);
- Control distance: 60km, 100km (optional);
- Wind resistance level: Takeoff and landing ≥10m/s (5th level), Cruising ≥15m/s (7th level);
- Power unit: Brushless motor for rotor, piston engine for cruising;
- Operating temperature: -22~55°C;
- Takeoff & landing method: Vertical takeoff and landing



FUNCTION

- Information Gathering
- Reconnaissance
- Exploration and Calibration
- Search and Rescue Guidance
- Communication Relay

MECHANISM DESCRIPTION

In missions across challenging climates and complex terrains like plateaus, canyons, remote seas, and mountainous regions, tasks include information gathering, communication support, situational awareness, and transport delivery.

PERFORMANCE

- Heavy Payload, Long Endurance: A robust power system supports heavy payloads for extended missions.
- Quick Vertical Takeoff and Landing: Allows for rapid takeoff and landing regardless of terrain, ensuring convenient and swift operations.
- Excellent Aerodynamic Design: Incorporates a twin-tail H-tail layout and rear-mounted propulsion for optimized aerodynamic performance.
- Compatible with Multiple Payload Modules: Meets the requirements of multi-task operations by accommodating various payload modules.

PRODUCT NAME: MH-50

INTRODUCTION

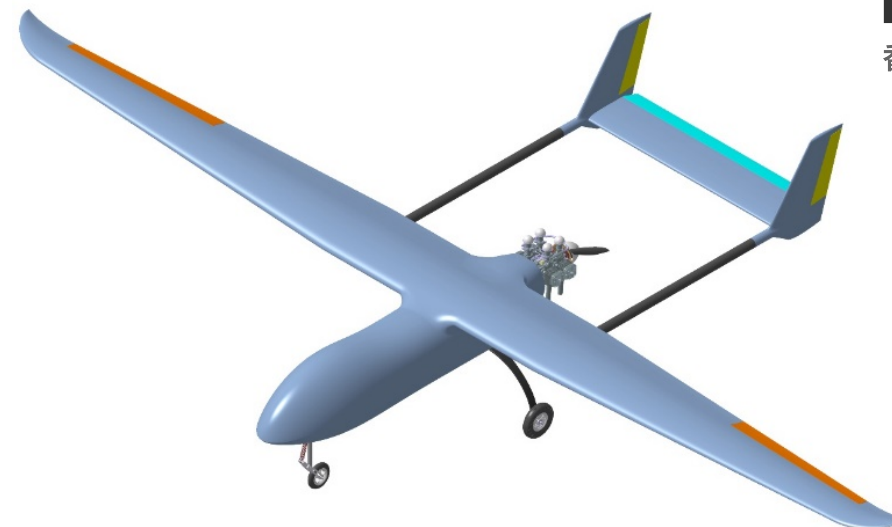
The large payload multi-purpose long-endurance UAV system is a multi-module and multi-purpose UAV product with the capability of carrying large payloads. It has the advantages of large payload, long endurance, high reliability, and rapid deployment. Adopting a twin-tail support H-tail layout and rear push-type power design, the UAV has a multi-purpose payload compartment with dimensions of 1250mm*450mm*370mm inside the fuselage, capable of carrying a maximum payload of 50kg. It can also externally mount a maximum airdrop payload of 40kg. It can carry various mission payloads according to customer requirements, meeting the demands of multi-task operations.

APPLICATION

Composite Wing Unmanned Aircraft System

PHYSICAL PROPERTIES

- Wingspan: 8.0m;
- Length: 4.4m;
- Height: 1.39m;
- Maximum takeoff weight: 210kg;
- Mission payload: 40~50kg;
- Cruising speed: 110~150km/h;
- Maximum flight speed: 200km/h;
- Stall speed at sea level: ≤ 75 km/h;
- Service ceiling: 5500m;
- Cruising altitude: 500~3500m;
- Endurance: ≥ 20 h;
- Maximum range: 2000km;
- Wind resistance level: Takeoff and landing ≥ 10 m/s (5th level), Cruising ≥ 15 m/s (7th level);
- Takeoff and landing method: Runway takeoff and landing.



FUNCTION

- Information Collection
- Reconnaissance
- Exploration and Calibration
- Search and Rescue Guidance
- Transport and Delivery
- Communication Relay

MECHANISM DESCRIPTION

In missions across challenging climates and complex terrains like plateaus, canyons, remote seas, and mountainous regions, tasks include information gathering, communication support, situational awareness, and transport delivery.

PERFORMANCE

- Heavy Payload, Long Endurance: A powerful propulsion system supports heavy payloads for extended missions.
- Quick Vertical Takeoff and Landing: Enables rapid takeoff and landing regardless of terrain, ensuring convenient and swift operations.
- Excellent Aerodynamic Design: Utilizes a twin-tail H-tail layout and rear-mounted propulsion for optimized aerodynamic performance.
- Compatible with Multiple Payload Modules: Meets the requirements of multi-task operations by accommodating various payload modules.

PRODUCT NAME: MH-300

INTRODUCTION

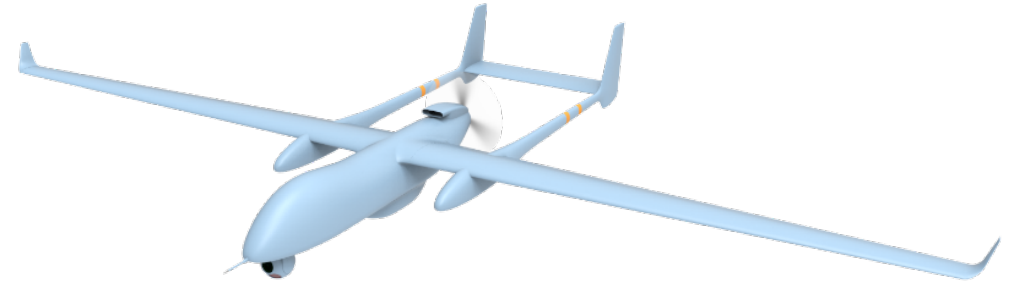
A long-endurance reconnaissance and surveillance UAV system. It features a high aspect ratio single wing with blended winglets at the wingtips to enhance the cruise lift-to-drag ratio. The tail employs a twin-tail support layout, and it is powered by rear-mounted engines. The landing gear consists of retractable front three-point landing gear and main landing gear located at the front end of the payload support pod. It can take off and land normally on wheels. The maximum payload capacity is up to 300 kilograms, and it can be equipped with satellite communication equipment, multispectral electro-optical pods, radar, communication relay equipment, and other devices. The maximum endurance can reach 30 hours.

APPLICATION

Composite Wing Unmanned Aircraft System

PHYSICAL PROPERTIES

- Wingspan: 15.88m;
- Length: 8.62m;
- Height: 2.25m;
- Maximum takeoff weight: 1000kg;
- Maximum payload: 300kg;
- Cruising speed: 126~144km/h;
- Maximum flight speed: 216km/h;
- Service ceiling: 8000m;
- Maximum endurance: 30h.



FUNCTION

- Information Collection
- Reconnaissance
- Exploration and Calibration
- Search and Rescue Guidance
- Transport and Delivery
- Communication Relay

MECHANISM DESCRIPTION

In missions across challenging climates and complex terrains like plateaus, canyons, remote seas, and mountainous regions, tasks include information gathering, communication support, situational awareness, and transport delivery.

PERFORMANCE

- Heavy Payload, Long Endurance: A powerful propulsion system supports heavy payloads for extended missions.
- Quick Vertical Takeoff and Landing: Enables rapid takeoff and landing regardless of terrain, ensuring convenient and swift operations.
- Excellent Aerodynamic Design: Incorporates a twin-tail H-tail layout and rear-mounted propulsion for optimized aerodynamic performance.
- Compatible with Multiple Payload Modules: Meets the requirements of multi-task operations by accommodating various payload modules.

PRODUCT NAME: MH-012

INTRODUCTION

The small-sized coaxial dual-rotor counter-rotating UAV features foldable rotor hubs, offering advantages such as small size, low cost, ease of use, high reliability, and quick deployment. It can carry reconnaissance systems and payload systems, and offers multiple take-off methods, achieving stable hover reconnaissance and fast maneuvering tracking at designated altitudes. The UAV's underside can accommodate an electro-optical pod, carrying a 1.2kg payload, making it widely applicable in traffic inspections, firefighting, and rescue operations. It can be equipped with various payload systems according to customer needs, meeting the requirements of multitasking operations.

APPLICATION

Coaxial Rotor Unmanned Aircraft System

PHYSICAL PROPERTIES

- Folding size: 130mm X 530mm
- Unfolding size: 736.6mm X 486mm
- Endurance: 45min
- Payload: 1.2kg
- Takeoff weight: 5kg
- Maximum flight speed: 20m/s
- Wind resistance level: 6
- Control distance: 30km



FUNCTION

- Information Collection
- Reconnaissance
- Exploration and Calibration
- Search and Rescue Guidance
- Transport and Delivery
- Communication Relay

MECHANISM DESCRIPTION

In missions characterized by harsh climates and complex geographical environments, tasks include information gathering, reconnaissance strikes, and situational awareness.

PERFORMANCE

- Foldable and Split Storage: Utilizes a quick-deploy structure design for rapid assembly and disassembly.
- Multiple Takeoff Methods: Capable of ground, hand-launched, and cannon-launched takeoff functions in folded state.
- Modular Payload Design: Designed for multi-payload adaptability, allowing for quick replacement of electro-optical pods and mission payloads.
- 45-minute Endurance: Utilizes a coaxial dual-rotor power system with an endurance of up to 45 minutes.
- Various Flight Modes: Remote-controlled flight, autonomous waypoint flight, formation flight, automatic return/landing, and other flight modes.

PRODUCT NAME: MH-60

INTRODUCTION

The 50kg-class rotor UAV system is a type of hexacopter UAV system with foldable arms, offering advantages such as portability, ease of use, high reliability, and quick deployment. It can carry a payload of up to 15kg and is suitable for a wide range of tasks, including traffic inspections, firefighting, and cargo delivery. It can be equipped with various payload systems according to customer needs, meeting the requirements of multitasking operations.

APPLICATION

Coaxial Rotor Unmanned Aircraft System

PHYSICAL PROPERTIES

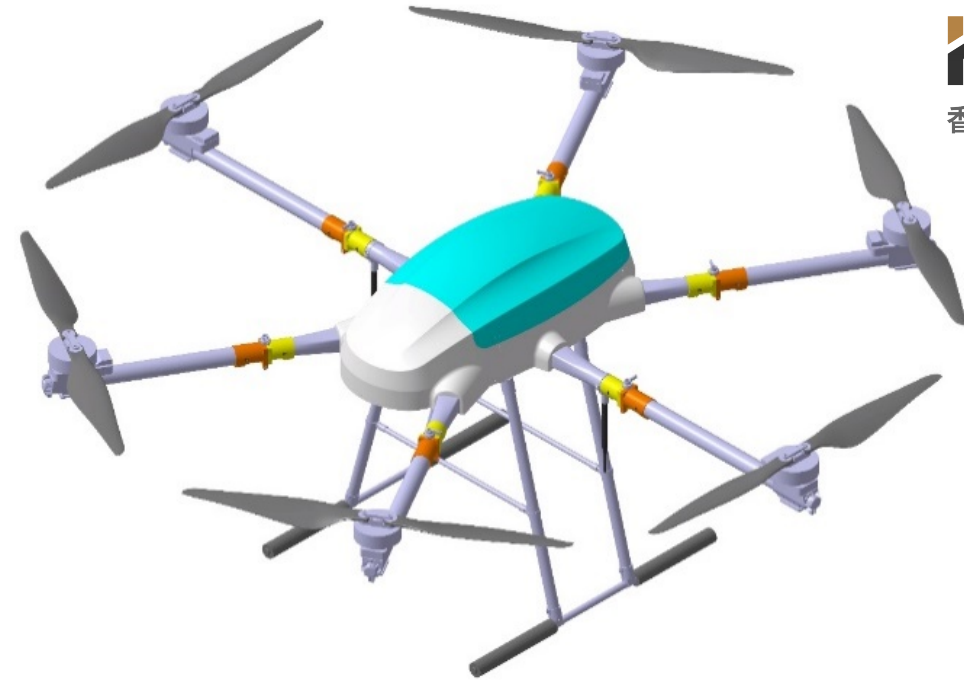
- Wheelbase: 1.860m;
- Height: 0.8m;
- Folding size: 1.01×0.98×0.8m;
- Maximum take-off weight: 54kg;
- Maximum Payload: 15~22kg;
- Maximum flight speed: 15m/s;
- Practical ceiling: 2500m;
- Maximum endurance: 32min (10kg load), 20min (full load);
- Control distance: >10km;
- Wind resistance level: 10m/s;
- Protection level: IP65;
- Operating temperature: -25°C~+40°C;
- Satellite positioning module: GPS/Beidou.

FUNCTION

- Information Collection
- Reconnaissance
- Communication Relay
- Tethered Formation Flying
- Exploration and Calibration
- Search and Rescue Guidance
- Transport and Delivery

PERFORMANCE

- Portable
- User-friendly
- High Reliability
- Rapid Deployment



MECHANISM DESCRIPTION

In missions set in harsh climates and complex geographical environments, tasks include information gathering, communication relay, search and rescue guidance, and situational awareness.

PRODUCT NAME: MH-125

INTRODUCTION

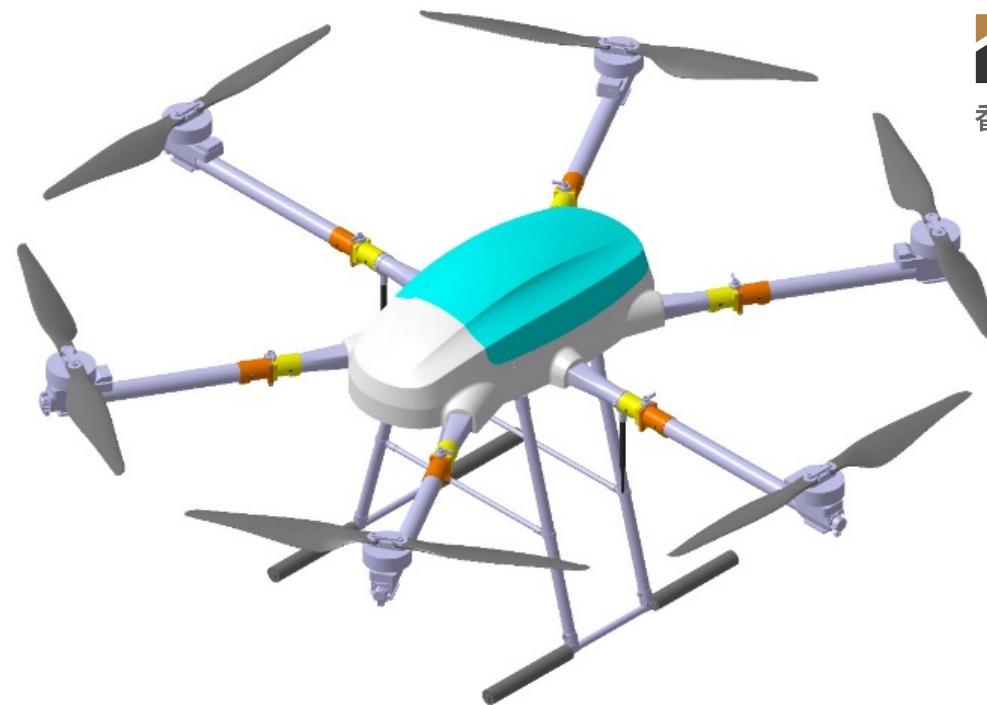
The 125kg-class rotor UAV system is a type of hexacopter UAV system with foldable arms, offering advantages such as portability, ease of use, high reliability, and quick deployment. It can carry a payload of up to 55kg and is suitable for a wide range of tasks, including traffic inspections, firefighting, and cargo delivery. It can be equipped with various payload systems according to customer needs, meeting the requirements of multitasking operations.

APPLICATION

Coaxial Rotor Unmanned Aircraft System

PHYSICAL PROPERTIES

- Wheelbase: 2.680m;
- Height: 1.15m;
- Folding size: 1.45m × 1.4m × 1.15m;
- Maximum takeoff weight: 125kg;
- Maximum payload: 27~55kg;
- Maximum flight speed: 15m/s;
- Practical ceiling: 2500m;
- Maximum endurance: 24min (27kg payload), 16min (full load);
- Control distance: >10km;
- Wind resistance level: 10m/s;
- Protection level: IP65;
- Operating temperature: -25°C to +40°C;
- Satellite positioning module: GPS/Beidou.



FUNCTION

- Information Collection
- Reconnaissance
- Communication Relay
- Tethered Formation Flying
- Exploration and Calibration
- Search and Rescue Guidance
- Transport and Delivery

PERFORMANCE

- Portable
- User-friendly
- High Reliability
- Rapid Deployment

MECHANISM DESCRIPTION

In missions conducted in harsh climates and complex geographical environments, tasks include information gathering, communication relay, search and rescue guidance, and situational awareness.