OEM VTOL UAVs

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OEM VTOL IA-M9

The VTOL M9 is a purely electric composite wing vertical take-off and landing fixed wing, equipped with Corbett's standard quick-release system, which allows for rapid load changes according to mission requirements.

The product supports visible light, dual light, infrared, HD ortho camera and other mission systems.

In the field of security, it can be used for high-altitude reconnaissance, border patrol, and forest fire prevention; in the field of energy, it can be used for long-distance oil and natural gas pipeline inspection, and power line pan patrol

Standard take-off weight: 15.5 kg
Maximum load: 3 kg
Body size: 3378*1520*515 mm
Package Size: 1350*600*450 mm
Control distance: 30 km
Maximum Endurance: 150 min (with 1.5kg load)
Cruising speed: 20 m/s
Maximum flight speed: 35~40 m/s
Maximum altitude rise: 5000 m
Rate of increase: 5 m/s (altitude <1000 m)
Wind resistance: Level 6 (fixed-wing mode)
Protection class IP54 Light rain protection
Operating temperature: -20 ~ 60 °C

3KG load capacity – 150min endurance - Vertical take off and landing – Fixed wing UAV

OEM VTOL IA-M8

The VTOL IA-M8 is a purely electric vertical take-off and landing fixed wing for the lightweight aerial survey market.

The modular design of the fuselage components allows for quick deployment in 1 minute, giving the user a better operational experience.

The independent drawer-type load compartment design allows for quick changeover, and users can flexibly choose forward or tilt cameras according to their operational needs.

The IA-M8 adopts the composite aerodynamic layout of quad rotor and fixed wing, which combines the advantages of vertical take-off and landing of rotor wing and the long range of fixed wing, and is mobile and flexible to adapt to all kinds of complex take-off and landing conditions

Standard take-off weight: 7 kg
Empty weight: 4 kg (without battery mount)
Maximum load: 1 kg
Body size: 2400*1177*364 mm
Package Size: 1280*530*450 mm
Control distance: 15 km
Maximum Endurance: 170 min (No Loaded)
Cruising speed: 20 m/s
Maximum altitude rise: 4500 m (±500 m)
Sea level rise rate: ± 4 m/s
Wind resistance: Level 6 (fixed-wing mode)
Protection class IP54 Light rain protection
Operating temperature: -20 ~ 60 °C
Battery capacity: High voltage version 25000 mAh 6s*1

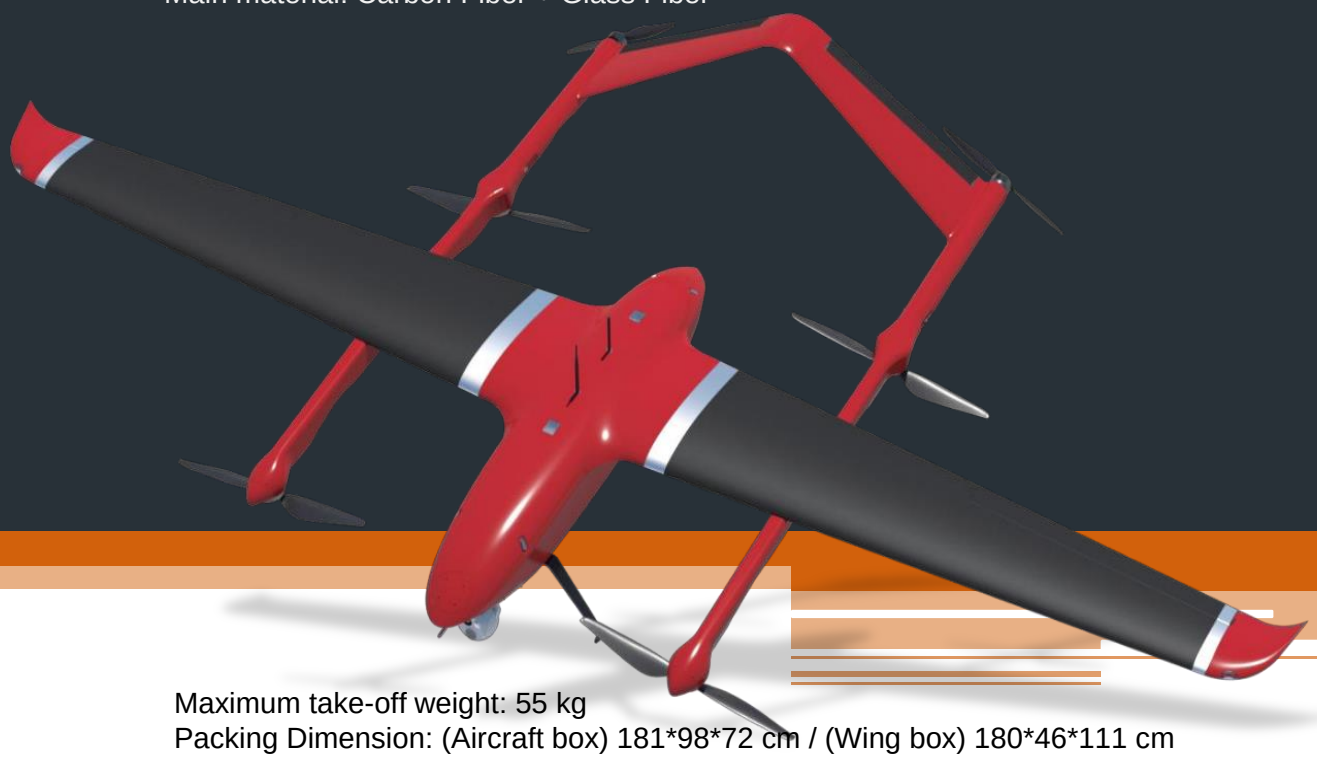
1KG load capacity – 170min endurance - Vertical take off and landing – Fixed wing UAV

OEM VTOL IA-M11

The VTOL IA-M11 is a pure electric composite vertical take-off and landing fixed wing. In order to meet the requirements of large load and long endurance, the flight platform adopts double tail braces design, which can be assembled and deployed quickly without tools, featuring large load and stable flight.

The endurance is up to 220 minutes (10-electric version), and the mission load is up to 15kg, which is widely used in large-load inspection, communication relay, material transport and other tasks.

Main material: Carbon Fiber + Glass Fiber



Maximum take-off weight: 55 kg
Packing Dimension: (Aircraft box) 181*98*72 cm / (Wing box) 180*46*111 cm
Maximum load: 15Kg
Cruising speed (Battery version): 27 m/s (approx. 97 km/h)
Endurance: 180 min (8pcs battery version) / 220 min (10pcs battery version)
Range: 200 km (8pcs battery version) / 240 km (10pcs battery version)
Maximum flight speed: 40 m/s (approx. 144 km/h)
Maximum altitude rise: 4500 m
Sea level rise and fall speed: ±3 m/s
Control radius: 80 km
Hovering: Vertical ±1 m; horizontal ±1 m
Maximum wind resistance: 7 levels
Take-off and landing strip: 3.3m
Take-off and landing mode: Fully autonomous take-off and landing
Battery Specifications: 8 battery version @30000mAh , 6sx8pcs / 10 battery version @30000mAh 6s*10pcs
Safety Protection Lost Link/Low Voltage Return to Home, Rollover Rotor Protection, Emergency Remote Controls

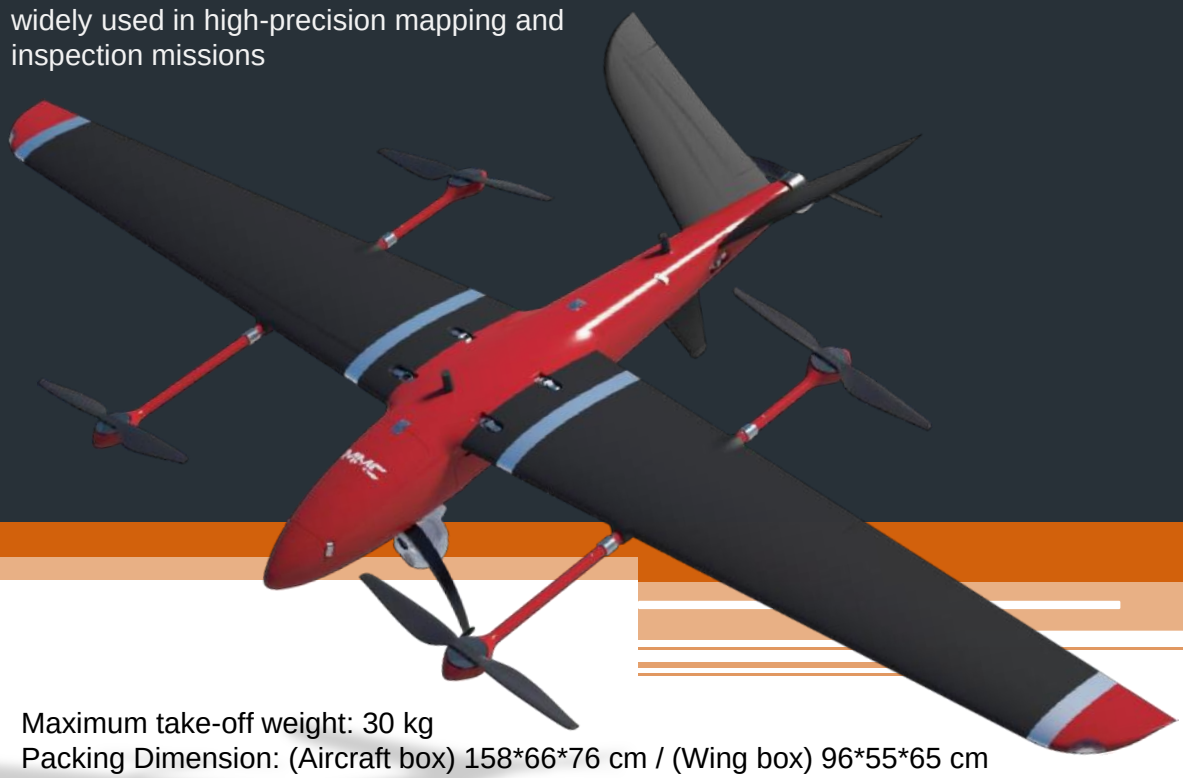
15KG load capacity – 220min endurance - Vertical take off and landing – Fixed wing UAV

OEM VTOL IA-M10

The VTOL IA-M10 is a medium-sized composite vertical take-off and landing fixed wing with a quick-disassembly design for tool-less assembly and deployment, a streamlined fuselage with a V-tail design for stable and reliable flight, an endurance of up to 180 minutes (for the 6-electric version), a mission load of up to 10kg, and a variety of industrial payloads and mission pods.

The IA-M10 is characterized by small take-off and landing sites, high automation, long endurance, stable flight and high operational efficiency.

The M10 can be equipped with LIDAR and optoelectronic pods, which are widely used in high-precision mapping and
inspection missions



Maximum take-off weight: 30 kg
Packing Dimension: (Aircraft box) 158*66*76 cm / (Wing box) 96*55*65 cm
Maximum load: 10Kg
Cruising speed (Battery version): 23 m/s (approx. 82 km/h)
Endurance: 120 min (4pcs battery version) / 180 min (6pcs battery version)
Range: 150 km (4pcs battery version) / 200 km (6pcs battery version)
Maximum flight speed: 35~40 m/s (about 130 km/h)
Maximum altitude rise: 4500 m
Sea level rise and fall speed: ±4 m/s
Control radius: 80 km (1.4 Ghz & 450 M Dual Backup Data Link)
Hovering: Vertical ±1 m; Horizontal ±1 m
Maximum wind resistance: 7 levels
Take-off and landing strip: 3.3m
Take-off and landing mode: Fully autonomous take-off and landing
Battery Specifications: 4-power version @ 30000mAh 6s*4pcs , 6-power Version @ 30000mAh. 6s*6pcs
Safety Protection Lost Link/Low Voltage Return to Home, Rollover Rotor Protection, Emergency Remote Controls

10KG load capacity – 180min endurance - Vertical take off and landing – Fixed wing UAV