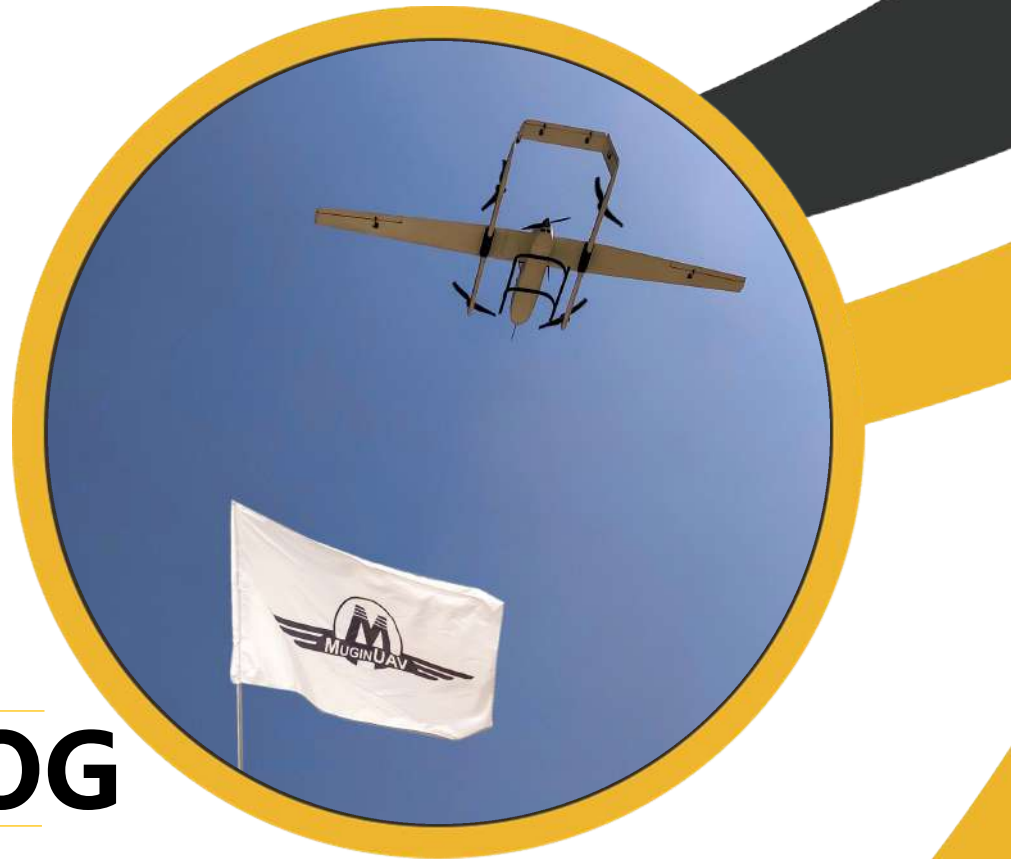


2020

PRODUCT CATALOG





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PART ONE

COMPANY PROFILE





ABOUT US

PROFESSIONAL MANUFACTURER OF UAV AIRFRAMES

Established in 2012, Mugin UAV is specialized in developing and manufacturing the airframes of unmanned aircrafts, We make various UAV platforms to meet your special requirements.

With several years' development, Mugin UAV has been one of the most famous UAV suppliers to offer the UAV platforms for industries use. The aircrafts we are making are capable of carrying a wide variety of payload configurations and offers extended flight times.

Our airframes are designed for professional use and can be equipped with full systems of advanced control electronics to run in sync with the most advanced ground stations. This plane can get most anywhere, and preform most any job related task you may require.

WHO IS MUGIN UAV?

- * SGS Audited Manufacturer
- * Member of Fujian Civil UAV Association
- * Member of Xiamen UAV Industry Association
- * Member of Shenzhen UAV Industry Association
- * Approved by CAAC – Civil Aviation Administration of China



PART TWO

VTOL UAV'S





MUGIN 2930 PRO VTOL



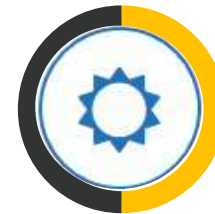
Vertical Take-off & Landing



6kg Payload



25kg Take-off Weight



1.5 Hours Flight Time

** Up to 3 Hours if change to with a 5.5L fuel tank*

MUGIN 2930 PRO VTOL

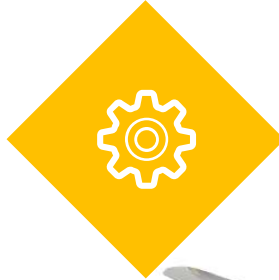


A long endurance unmanned VTOL airframe designed for professional use. Made out of carbon fiber allowing the airframe to be lighter, yet stronger. It can be either electric powered or gasoline powered. If change to with a 5.5 litres Kevlar fuel tank, the flight time can be up to 3 hours.

MUGIN 2930 PRO VTOL SPECIFICATIONS

Dimensions

Wingspan: 2930mm
Length: 1900mm
Wing Area: 90dm²
Payload Bay: 560 x 210 x 185mm



Flight Characteristics

Flight Characteristics without Payload
Cruise Speed: 55mph / 88kph
Maximum Speed: 75mph/120kph
Stall Speed: 28-31mph / 45-50kph
Maximum Flight Time: ≈1.5hr



Weight and Payload

Empty Weight: 7.1kg
Maximum Take-off Weight: 25kg
Payload Capacity: 6kg

Packaging Information

Shipping Dimensions of Package:
130cm x 51cm x 40cm
Volumetric Weight: 55kg





MUGIN EV350 VTOL



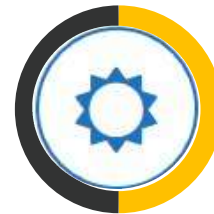
Vertical Take-off & Landing



5kg Payload



22kg Take-off Weight



3 Hours Flight Time

MUGIN EV350 VTOL

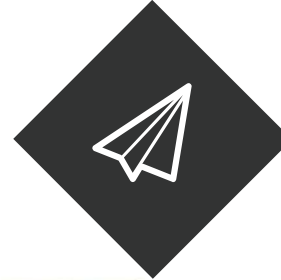
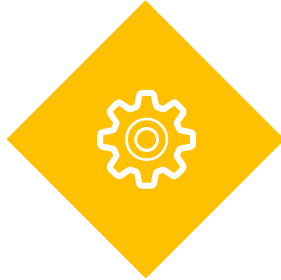


Mugin EV350 is a new full electric VTOL with a wingspan of 3500mm. The new VTOL features the quick-detach design which is easy to assemble and disassemble. It also features in the aerodynamic design of landing gear. The airframe comes with only 3 landing feet, save the space and weight, but still very stable while taking off or landing.

MUGIN EV350 VTOL SPECIFICATIONS

Dimensions

Wingspan: 3500mm
Length: 1860mm
Height: 590mm
Fuselage: 1120 x 225 x 206mm
Wing Area: 100dm²



Flight Characteristics

Cruise Speed: 21m/s
Maximum Speed: 30m/s
Stall Speed: 15m/s
Flight Time: 3 Hours
Flight Range: 180km



Weight and Payload

Empty Weight: 6.2kg
Maximum Take-off Weight: 22kg
Payload Capacity: 5kg



Packaging Information

Shipping Dimensions of Package:
1500mm x 545mm x 610mm
Volumetric Weight: 100kg



MUGIN 3600 VTOL



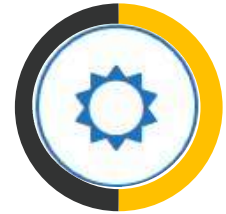
Vertical Take-off & Landing



8kg Payload



35kg Take-off Weight



3 Hours Flight Time

MUGIN 3600 VTOL



This aircraft is capable of carrying a wide variety of payload configurations and offers extended flight times. It caters to larger UAS projects such as universities or commercial projects.

MUGIN 3600 VTOL SPECIFICATIONS

Dimensions

Wingspan: 3600mm
Length: 2420mm
Wing Area: 132dm²
Payload Bay: 560 x 260 x 270mm



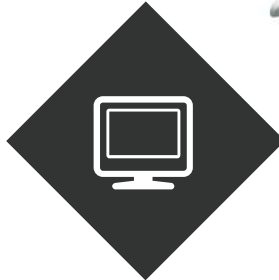
Flight Characteristics

Cruise Speed: 75mph/120kph
Maximum Speed: 100mph/160kph
Stall Speed: 25mph/40kph
Maximum Flight Time: 3 hours



Weight and Payload

Empty Weight: 12kg
Maximum Take-off Weight: 35kg
Payload Capacity: 8kg
Fuel Tank: 8 Liters



Packaging Information

Shipping Dimensions of Package:
160cm x 51cm x 50cm
Volumetric Weight: 82kg



MUGIN 4000 VTOL



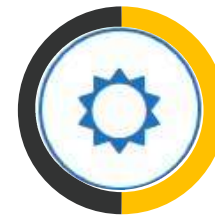
Vertical Take-off & Landing



8kg Payload



30kg Take-off Weight



2 Hours Flight Time

** Up to 4 Hours if change to with a 5.5L fuel tank.*

MUGIN 4000 VTOL



Mugin 4000 Pro has an increased wingspan than the Mugin 2930, offering better efficiency and more payload. As an electric UAV, this airframe can get a couple of hours of flight time or use a gas engine for over 4 hours of flight.

MUGIN 4000 VTOL SPECIFICATIONS

Dimensions

Wingspan: 4000mm

Length: 1900mm

Wing Area: 122dm²

Payload Bay: 560 x 210 x 185mm



Flight Characteristics

Cruise Speed: 80km/h

Maximum Speed: 112km/h

Stall Speed: 45-50km/h

Maximum Flight Time: 4 Hours

** by gas powered*



Weight and Payload

Empty Weight: 8.26kg

Maximum Take-off Weight: 30kg

Payload Capacity: 8kg



Packaging Information

Shipping Dimensions of Package:

159cm x 52cm x 40cm

Volumetric Weight: 67kg



MUGIN 4450 VTOL



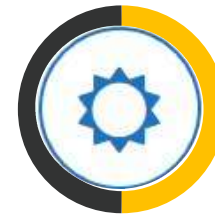
Vertical Take-off & Landing



25kg Payload

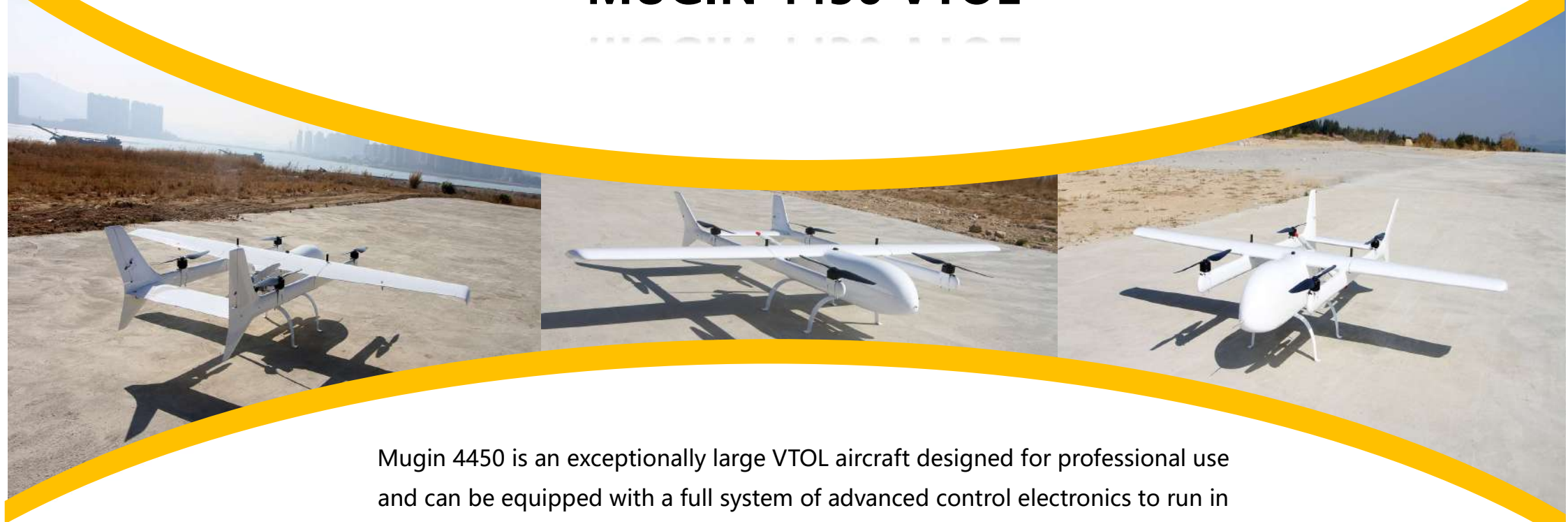


85kg Take-off Weight



7 Hours Flight Time

MUGIN 4450 VTOL



Mugin 4450 is an exceptionally large VTOL aircraft designed for professional use and can be equipped with a full system of advanced control electronics to run in sync with the most advanced ground stations. With a 27L fuel tank, its payload can be up to 25kg and the flight time can be up to 7 hours.

MUGIN 4450 VTOL SPECIFICATIONS

Dimensions

Wingspan: 4510mm

Length: 3400mm

Wing Area: 236 dm²

Equipments cabin: 920 x 340 x 350mm



Flight Characteristics

Cruise Speed: 120km/h

Maximum Speed: 170km/h

Stall Speed: 55km/h

Maximum Flight Time: 7 Hours



Weight and Payload

Empty Weight: 23kg

Maximum Take-off Weight: 85kg

Payload Capacity: 25kg



Packaging Information

1900*550*510mm for the Fuselage

1710*760*330mm for the Wings

1590*330*200mm for other Parts



MUGIN 4720 VTOL



Vertical Take-off & Landing



8kg Payload



38kg Take-off Weight



3 Hours Flight Time

MUGIN 4720 VTOL

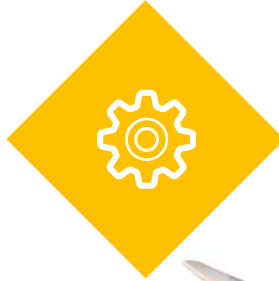


The Mugin 4720mm VTOL platform is a long endurance unmanned VTOL airframe designed for professional use. Using this airframe with your team of experienced engineers will allow your team to have the foundation they need for the most demanding of requirements.

MUGIN 4720 VTOL SPECIFICATIONS

Dimensions

Wingspan: 4720mm
Length: 2450mm
Wing Area: 166dm²
Payload Bay: 500 x 250 x 270mm



Flight Characteristics

Cruise Speed: 120km/h
Maximum Speed: 160km/h
Stall Speed: 40km/h
Maximum Flight Time: 7 Hours



Weight and Payload

Empty Weight: 13.7kg
Maximum Take-off Weight: 38kg
Payload Capacity: 6 to 8kg



Packaging Information

Shipping Dimensions of Package:
190cm x 51cm x 50cm
Volumetric Weight: 97kg

PART THREE

FIXED WINGS





MUGIN 2600



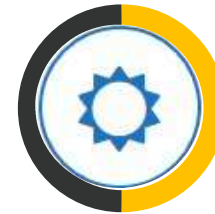
V-TAIL / H-TAIL SELECTABLE



4kg Payload



15kg Take-off Weight



2 Hours Flight Time

MUGIN 2600

UAV PLATFORM KIT



This is the mini Mugin 2.6m UAV platform kit. The Mini Mugin comes with a wingspan of 2600mm with an empty weight of 6.5kg. Its maximum take-off weight can be up to 15kg.

MUGIN 2600

SPECIFICATIONS

Dimensions

Wingspan: 2600mm
Captain: 2050mm
Wing Area: 88dm²



Flight Characteristics

Cruise Speed: 120km/h
Maximum Speed: 170km/h
Stall Speed: 35km/h
Maximum Flight Time: 2 Hours



Weight and Payload

Empty Weight: 6.5kg
Maximum Take-off Weight: 15kg
Payload Capacity: 4kg



Packaging Information

Packaging Dimension:
117cm x 44cm x 44cm
Volumetric Weight: 45.5kg



MUGIN 3220 PRO



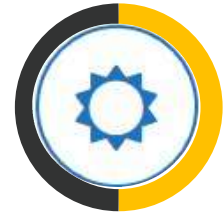
Carbon Fiber Material



8kg Payload

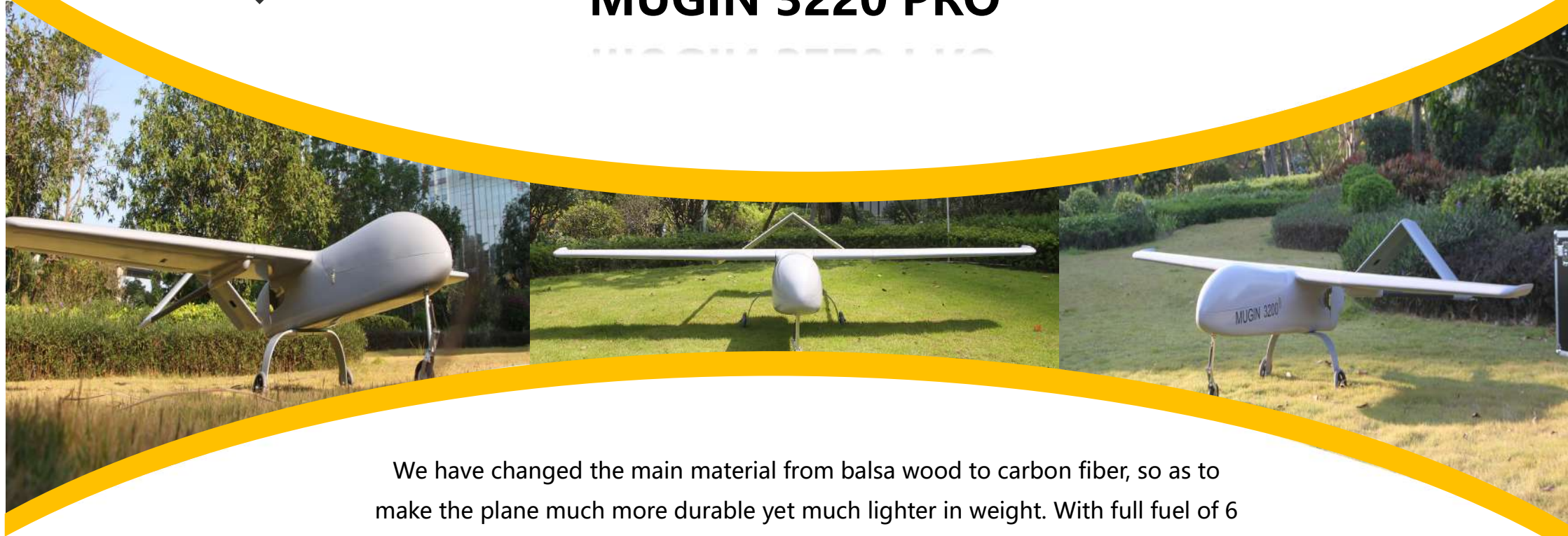


28kg Take-off Weight



3 Hours Flight Time

MUGIN 3220 PRO



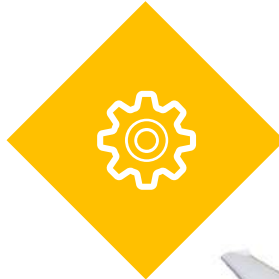
We have changed the main material from balsa wood to carbon fiber, so as to make the plane much more durable yet much lighter in weight. With full fuel of 6 litres, the Mugin 3220 Pro can fly up to 3 hours.

MUGIN 3220 PRO

SPECIFICATIONS

Dimensions

Wingspan: 3220mm
Length: 2438mm
Wing Area: 120dm²
Payload Bay: 560 x 260 x 270mm



Flight Characteristics

Cruise Speed: 120km/h
Maximum Speed: 160km/h
Stall Speed: 40km/h
Maximum Flight Time: 3 Hours



Weight and Payload

Empty Weight: 11.59kg
Maximum Take-off Weight: 28kg
Payload Capacity: 8kg



Packaging Information

Shipping Dimensions of Package:
147cm x 51cm x 54cm
Volumetric Weight: 81kg



MUGIN 3600



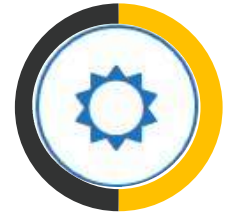
Composite Material



8kg Payload



28kg Take-off Weight



3 Hours Flight Time

MUGIN 3600



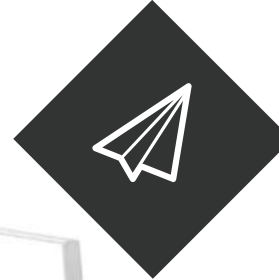
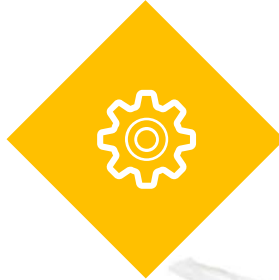
Mugin 3600 is a low cost UAV airframe. It is not a simple shell, but with infinite possibilities. With full 6 litres fuel, this aircraft can fly up to 3 hours.

MUGIN 3600

SPECIFICATIONS

Dimensions

Wingspan: 3600mm
Length: 2488mm
Wing Area: 133dm²
Payload Bay: 560 x 260 x 270mm

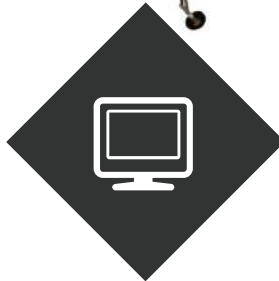


Flight Characteristics

Cruise Speed: 120km/h
Maximum Speed: 160km/h
Stall Speed: 40km/h
Maximum Flight Time: 3 Hours

Weight and Payload

Empty Weight: 12.9kg
Maximum Take-off Weight: 28kg
Payload Capacity: 8kg



Packaging Information

Shipping Dimensions of Package:
147cm x 51cm x 54cm
Volumetric Weight: 81kg





MUGIN 4450 PRO



Disc Brake System



20kg Payload



85kg Take-off Weight



7 Hours Flight Time

MUGIN 4450 PRO



The hot selling Mugin 4450mm UAV now comes the upgraded carbon fiber version. Much stronger and more durable. Another feature of the new airframe is that, we added the disc brakes onto the landing wheels, so it is much safer while landing on the runway.

MUGIN 4450 PRO SPECIFICATIONS

Dimensions

Wingspan: 4530mm
Length: 3400mm
Fuselage maximum width: 375mm
wing area: 225.6 dm²



Flight Characteristics

Cruise Speed: 120km/h
Maximum Speed: 160km/h
Stall Speed: 55km/h
Maximum Flight Time: 7 Hours



Weight and Payload

Empty Weight: 22.5kg
Maximum Take-off Weight: 85kg
Payload Capacity: 20kg



Packaging Information

Carton 1: 190cm*53cm*50cm
Carton 2: 170cm*77cm*33cm
Volumetric Weight: 187.5kg



MUGIN PLUS 4500



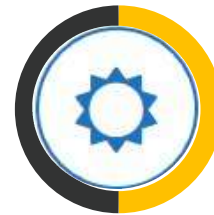
Composite Material



8kg Payload



28kg Take-off Weight



3.5 Hours Flight Time

MUGIN PLUS 4500

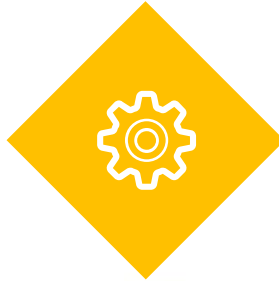


This Mugin Plus 4500 is designed basing on the Mugin 3600, but improves some fuselage designs to make sure it can be fitted with the new 4500mm wings. Compare to the Mugin 3600, its not just a fuel plane, but also an electric plane. The plane can be driven by either brushless motor or Gas engine.

MUGIN PLUS 4500 SPECIFICATIONS

Dimensions

Wingspan: 4500mm
Length: 2530mm
Wing Area: 180.1dm²
Cabin Size: 560 x 260 x 270mm



Flight Characteristics

Cruise Speed: 120km/h
Maximum Speed: 160km/h
Stall Speed: 45km/h
Maximum Flight Time: 3.5 Hours



Weight and Payload

Empty Weight: 13.95kg
Maximum Take-off Weight: 28kg
Payload Capacity: 8kg



Packaging Information

Packing Dimension: 189 x 54 x 50cm
Actual Gross Weight: 24.4kg
Volumetric Weight: 102.1kg



PART FOUR

OTHER PRODUCTS



OTHER PRODUCTS

GIMBALS & CAMERAS



Q30T Pro

- * 30x optical zoom
- * SONY 1/2.8" "Exmor R" CMOS
- * FHD 1080p video
- * 2.13 million effective pixels
- * Target tracking



U30T Pro

- * 2-axis design with 3-axis function
- * SONY 1/2.8" "Exmor R" CMOS
- * 2.13 million effective pixels
- * 1080p HD image quality.
- * Target Tracking



U30TIR

- * EO & IR Dual Sensor
- * 2-axis High-precise FOC Program
- * SONY 30x Zoom Starlight Camera
- * Professional Thermal Imager
- * Visible Light and Thermal Imager Dual Sensors Object Tracking



U30TIR-50

- * EO & IR Dual Sensor
- * 50mm lens thermal imager
- * SONY 30x Zoom Starlight Camera
- * Professional Thermal Imager
- * Visible Light and Thermal Imager Dual Sensors Object Tracking

OTHER PRODUCTS ELECTRONICS



Cube Orange Standard Set

- * STM32H7 Processor
- * 32-bit failsafe co-processor
- * Three redundant IMUs (accels, gyros and compass)
- * Two redundant barometers



Herelink

- * Signal transmission range: 20km
- * HD video transmission, data transmission and remote control all in one.
- * Latency less than 110ms.
- * Support Open source flight stacks.



Here+ V2 RTK GNSS

- * Centimeter-level GNSS positioning
- * Integrated Real Time Kinematics (RTK)
- * Smallest, lightest, and energy-efficient RTK module
- * Complete and versatile solution



Came-TV Pilot Headset

- * Foldable, easy to carry.
- * Move the microphone arm up to mute and down to talk.
- * 1200ft/366m Range in Open Space
- * Easy communication between pilot, technician, navigator and assistant.

OTHER PRODUCTS

DLE ENGINES



DLE 30CC

- * Performance: 3.7HP/8500rpm
- * Idle Speed: 1600 rmp/min
- * Static Thrust: 8.5kg/100m Altitude
- * Static Thrust: 7.5kg/1800m Altitude
- * Prop Size: 18x8, 18x10, 19x8, 20x8



DLE 60CC

- * Performance: 7HP/8500rpm
- * Idle Speed: 1400 rmp/min
- * Static Thrust: 15.2kg/100m Altitude
- * Static Thrust: 13.5kg/1800m Altitude
- * Prop Size: 22x10, 23x8, 23x10, 24x8



DLE 120CC

- * Performance: 12HP/8500rpm
- * Idle Speed: 1300 rmp/min
- * Static Thrust: 26.5kg/100m Altitude
- * Static Thrust: 23.5kg/1800m Altitude
- * Prop Size: 26x10, 26x12, 27 x10, 28x10
- * Available with 80w/180w generator



DLE 170CC

- * Performance: 12HP/8500rpm
- * Idle Speed: 1300 rmp/min
- * Static Thrust: 26.5kg/100m Altitude
- * Static Thrust: 23.5kg/1800m Altitude
- * Prop Size: 30x12, 32x10
- * Available with 80w/180w generator

THANKS FOR WATCHING!

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