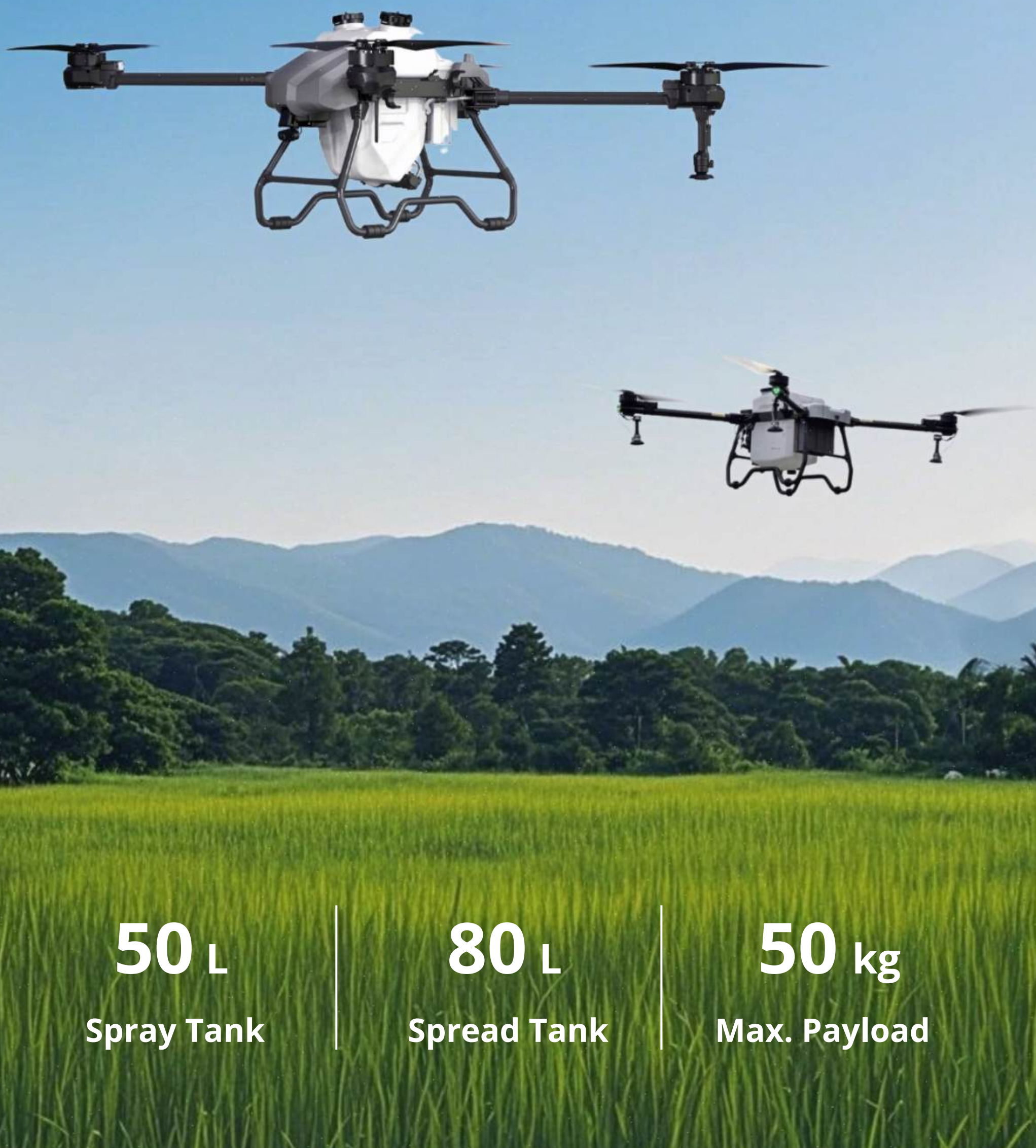
E50 Agricultural Drone

From Seeding to Harvest, We Power Every Step



50 L	80 L	50 kg
Spray Tank	Spread Tank	Max. Payload

E50 seamlessly integrates **50L spraying, 80L spreading**, and **50kg lifting** capabilities, enabling rapid switching for diverse tasks.

Upgraded control system ensures **user-friendly operation**, while the redundant power system (with 57kg single-axis thrust) guarantees **stability** under heavy loads.

Its **high-flow dual-impeller pump** and **dual water-cooled centrifugal nozzles** deliver enhanced efficiency and effectiveness.

The **foldable 4-rotor airframe** and **single-battery design** reduces operational and maintenance costs.



Upgraded Flight Control
Easier Operation

Fully-Auto, AB-T, &
Manual Operations

Collision Avoidance &
Terrain-Following Radar

50L Spraying Tank
80L Spreading Tank

50kg Transport Payload
for Farm Material Handling

Truss-Frame Design
Enhanced Stability

Spraying System

50 L	24 L/min	6-10 m	50-500 μm
Spray Tank	Flow Rate	Spray Width	Droplet Size

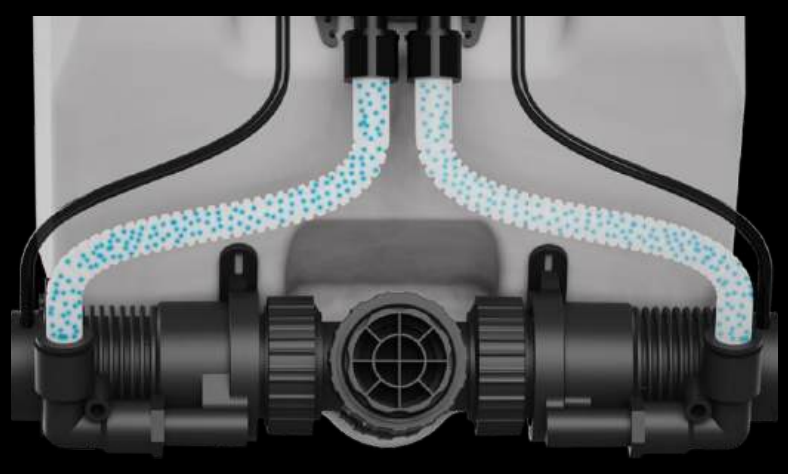


Dual water-cooled centrifugal nozzles

More finer, uniform coverage
50–500 μm adjustable droplet

Dual high-flow impeller pumps

24L/min high flow rate
Handling both crops & fruit trees



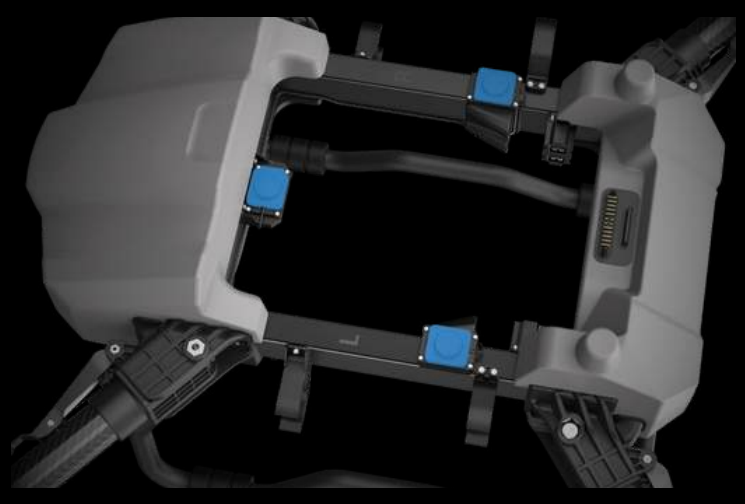


High-precision flow meter

Ensures flow control accuracy
Precise dosage adjustment

Smart Tank Weight Sensor

Real-time feedback tank levels
Optimizes spray continuity



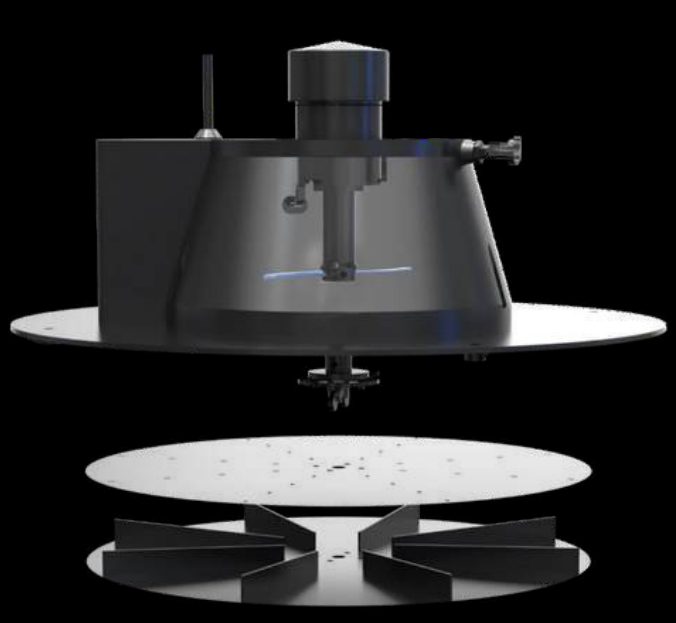
Spreading System

80 L	80 kg/min	8 m	10 m/s
Spread Tank	Spread Rate	Spread Width	Max. Speed



80L Tank | 50kg payload

Holding one bag of fertilizer at a time



Metal spreading disc

360° uniform spreading without clogging



Integrated Hopper

Quick switching between spray & spreading



Extra-large filling port

80 kg/min discharge rate

Transport System

Featuring a robust **50kg** payload lifting capability with **automatic detachment**, this drone can be effectively used for **transporting field supplies** and **lifting forestry materials**, overcoming limitations of terrain and distance.



VS



The E50 drone can **reduce transport costs** & heavy manual labor while unlocking extra income through **off-season lifting**.

50KG

Transport Payload

Auto-Release Hook

Safety System

Front and Rear Obstacle Avoidance Radar

Automatically navigate around obstacles such as trees & poles in the field, significantly reducing collision risks.



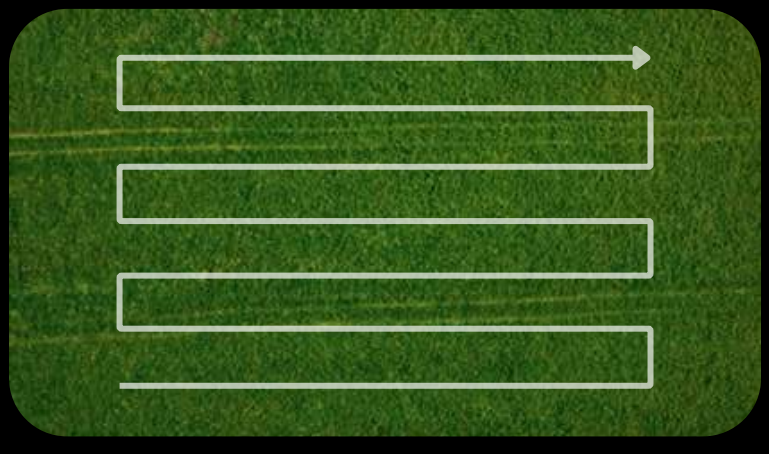
Terrain Following Radar

Effectively adapts to complex terrain such as hilly and mountainous orchards for consistent operation.



Remote Controller

Supports Auto, AB-T, and manual operations.
Features automatic boundary scanning, U-turn.
Prediction of empty tank point and route re-planning to minimize flight time when fully loaded



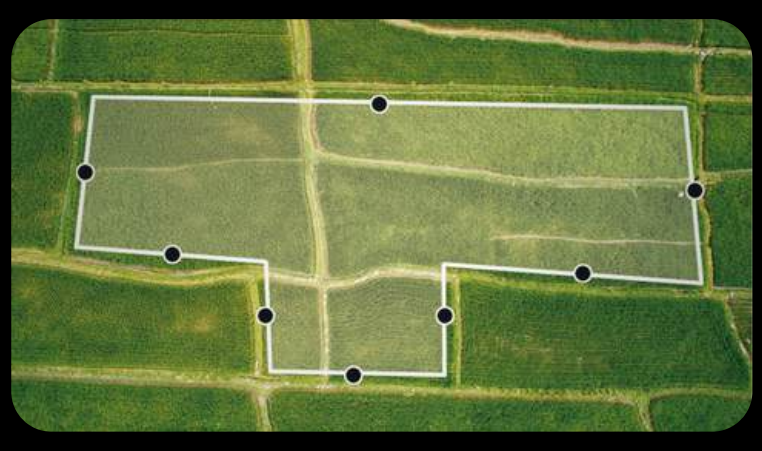
Fully autonomous



AB-T Mode



Intelligent Replan Route



Boundary Scanning

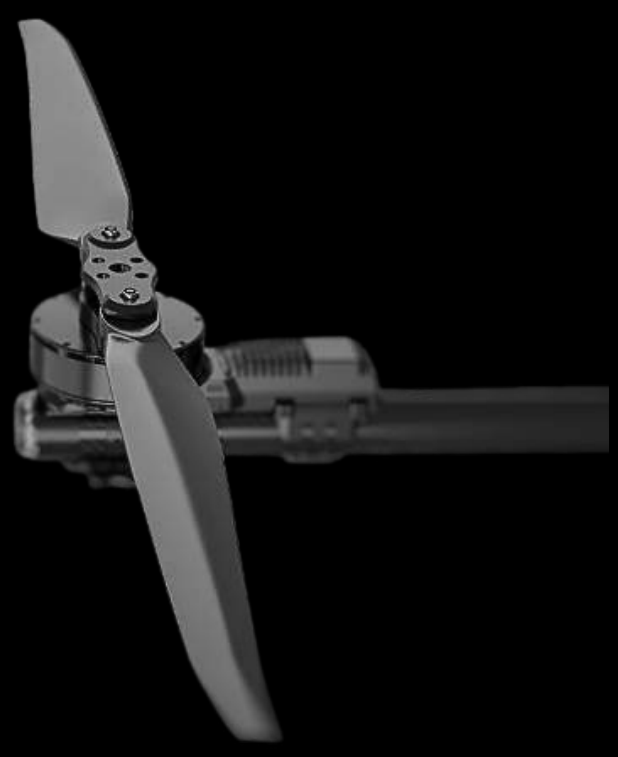


Propulsion System



High-Torque Four Motors

Power Redundancy for Heavy Lifts



56" Carbon-Fiber Propeller

High-strength for optimal performance



High-Precision ESC

Intelligent Power Management System

Industrial Design Highlights

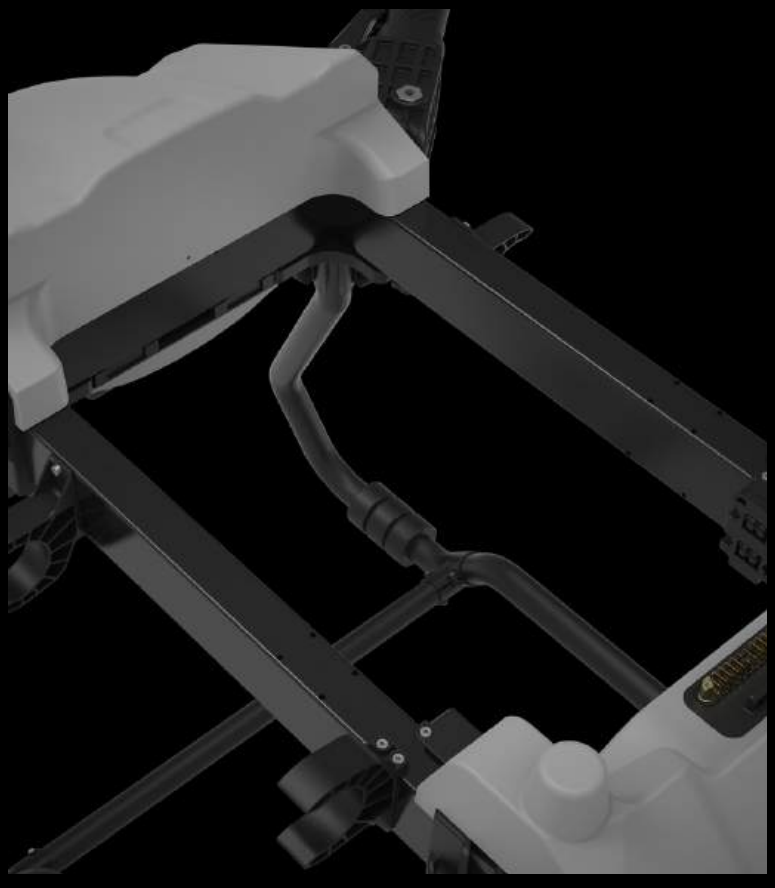
Integrated flight control for easy maintenance, optimized circuitry with IP67 protection for enhanced stability, a robust truss airframe for durability, and arm buckle sensing for increased operational safety.



Integrated Flight Control



Optimized Circuitry



Robust Truss Airframe



Arm Lock Detection

Energy System

- **Single-battery operation**
  Reduces overall usage costs. 18S 30Ah plug-and-play battery

- **15-minute fast charging**
  Enables a two-battery cyclical operation

- **Battery management system**
  Allows real-time monitoring of each cell's status, ensuring battery health and simplifying maintenance.



Flexible Delivery Solutions

We offer two shipping options:

- **Fully Assembled Package**

  The drone will arrive ready to use right out of the box.

Drone



Optional Accessories



Battery



Charger



Spreader



RTK

- **Unassembled Package (in parts)**

  The drone will be delivered in three boxes, and you need to assemble them following our tutorials.

#1: Drone Body

Frame*1, Centrifugal nozzles*2, Pumps*2, Radars*3, Controller*1



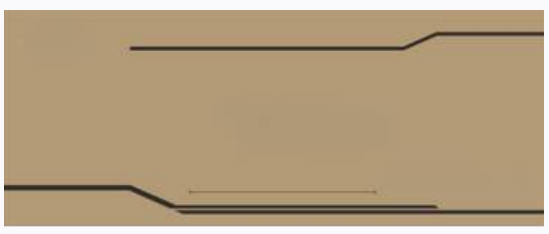


990*705*395 mm

#2: Propulsion

Motors*4, Propellers*4





705*405*235 mm

#3: Tank

Spray Tank*1





675*405*365 mm

E50 Specifications

Aircraft Parameters

Overall Weight	35 kg (without battery) 50 kg (with battery)
Maximum Takeoff Weight	99 kg
Wheelbase	2300 mm
Extended Dimensions	3918*3732*815 mm (Arms Extended, Propellers Extended) 1908*1722*815 mm (Arms Extended, Propellers Folded)
Folded Dimensions	1340*635*815 mm
Hovering Time	8-18 min
Positioning Accuracy	RTK - Horizontal ±0.1m, Vertical ±0.1m GPS - Horizontal ±1.5m, Vertical ±0.5m
Operating Temperature	0-40°C
Wind Resistant Level	Level 6

Spraying System

Tank Capacity	50 L
Nozzle Type	Centrifugal nozzles, *2
Droplet Size	50–500 μm
Water Pump	Impeller pumps, *2
Max. Flow Rate	24 L/min
Spray Width	6-10 m

Spreading System

Hopper Capacity	80 L
Maximum Payload	50 kg
Applicable Granule Size	0.5-5 mm
Spreading Disc Type	Metal disc
Max. Spread Rate	80 kg/min
Effective Spread Width	8 m

Transport System

Maximum Payload	50 kg
Automatic Detachment	Support
Rope Length	5-15 m

Propulsion System

Motor	18S 13825
Propeller Size	56"
Number of Rotors	4

Safety System

Obstacle Avoidance Radar	Front & Rear
Terrain Following Radar	Downward
FPV Camera	720*1080
80w Night Flight Lights	Optional

Remote Controller

Resolution	1080*1920
Screen Size	5.5"
Remote Control Distance	1 km
Battery Duration	6-20 h

Energy System

Recommended Battery	18S 30000 mAh LiPo, Single-battery operation
Recommended Charger	9000w
Charging Time	10-15min per battery



Training & Support

A. Pre-Sales Empowerment

Multi-language
User Manuals

Detailed
Video Tutorials

Global Shipment
Consultant

B. Post-Sales Excellence



Step-by-step Assemble &
Disassemble Tutorials



Troubleshooting
Common Issues (Q&A)



Maintenance and
Care Tips



Ample Supply of Spare Parts
and Accessories

C. Sales Support

Territory
Protection

Marketing
Materials

On-site
Training

Peak season
Tech support

* Sales policies will be effective upon meeting the sales quota.

Sales Hardware Software Operators Customs Disigner



EAUAV

Website: www.eauav.com

Email: support@eauav.com

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@EAUAV

WhatsApp: +86 19357177328