

# YFM-787 Single-rotor plant protection UAV

High wind field high pole crop plant protection weapon





## Product Parameter

Appearance dimensions: 2695 \* 2240 \* 600MM

Medicine cabinet capacity: 17L

Battery life: 18-25MIN

Operation efficiency: 20 Acres / H

Operation spray amplitude: 5-7M

Operation mode: fully autonomous / dynamic AB point / manual, support cloud data platform management, support Android phone APP operation

## Product Description

1. TY-787 single rotor plant protection drone is the eagle brothers star products, carrying the advanced flight control technology with high strength aviation aluminum and carbon fiber strengthening fuselage, accurate spraying system and single rotor strong pressure wind field make plant protection operation more accurate, better effect, industrial design and agricultural application perfect combination, crack high pole crop plant protection operation problem for you.

2. The product has large load, stable flight, easy control and simple maintenance. It is the best rotor plant protection machine with the best comprehensive performance of payload in China.
3. The product is equipped with different task loads and can carry out different plant protection operation tasks, such as fertilization, pesticide spraying, herbicide, crop-assisted pollination and other operations.

## **Product Superiority**

1. High operation efficiency, which can reach 400-700 mu of land every day, more than 30 times that of artificial labor.
2. Support all-self-flight, intelligent route planning, intelligent operation.
3. Support fully autonomous, intelligent AB points, GPS stabilization, manual and other flight modes to adapt to different operating environments.
4. The operation effect is good, the single-rotor UAV rotor is relatively long, and the downspin airflow generated in the flight can spray the medicine liquid to the root part of the plant. Uniform distribution, good settlement effect, low rod, high rod crops can ensure good application effect.
5. The operation cost is low, only a battery can complete 17 kilograms of pesticide spraying, only 0.65 yuan per mu, the battery use is a quarter of the same load of multi-selected wing aircraft. It saves both battery saving and charging time, which is especially important in large-scale continuous operation.
6. Strong continuous operation ability, using the motor imported from Germany, 7075 aviation aluminum material, can achieve high intensity operation.
7. Large load, the maximum load of 17 kg, pollination time of 25 minutes.
8. Easy operation, convenient transfer, the net weight of 10.5KG, one person can easily transfer the transfer

## **Application Scenarios**

The rotor plant protection machine operation not only has the advantages of high operation efficiency, saving a lot of manpower, pesticides and water resources, but also is not limited by crops. It can be widely used in rice, wheat, tea garden, corn, peanut, cotton, sunflower, melon field, tobacco, orchard, high pole plant, forest and other agricultural fields.

**The main functional features of the product are as follows:**

1. The fuselage adopts all-metal ball head link device and high-strength bearing rotor head structure, Stable structure, large bearing capacity, high reliability;
2. High torsion waterproof steering gear, Non-virtual position inlay bearing shaft direct drive design, Improve operation performance, output reliability, accurate control, easy maintenance;
3. Low center of gravity design, Stable flight, better handling performance;
4. Taifour-rotor design, Lock tail performance is better;
5. All-metal frame, Strong, durable, pesticide corrosion resistance;
6. Using five sprinkler spraying operation, More even, Improve the pesticide utilization rate, Reduce the operation dead corners;
7. The main rotor and spray rod adopt the foldable design, save space, Easy to carry transportation and transfer operation;
8. omnidirectional shock absorption design, Reduce the impact of vibration on aircraft flight attitude;
9. Left, red and yellow reflective coating design on the outer end of the spray rod, Easy to judge the aircraft attitude and operation;
10. Quick disassembly hood design, Easy to replace batteries;
11. The tailpipe adopts the external diameter of 40mm carbon fiber material, High strength, seismic resistance, increase flight stability;
12. Using German KONTRONIK high performance motor and electric adjustment, Full horsepower;
13. Battery power drive design, No waste gas, no pollution, Easy to repair and maintain, Greatly reduce the maintenance cost;
14. Belt drive design, Low noise, low wear;
15. GPS automatic stabilization system, Reduce the operation difficulty, With runaway protection function;
16. Optional ground station, To achieve autonomous flight.

## **Product Picture**□



Please feel free to contact us if you are interested in this product.