

JT100 Agricultural Drone





Main Drone Image

Professional JT100 agricultural drone for spraying, fertiliser spreading and autonomous operation.

Agricultural Drone for Spraying and Spreading

JT100 Agricultural Drone

High-Performance Agricultural Drone with Large 70 L / 100 L Tanks for Modern Farming

JT100 is a professional agricultural drone designed for precise spraying, fertiliser spreading and operation



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over large areas. The model combines intelligent flight planning, real-time monitoring and advanced safety systems.

The drone is equipped with a spray tank and a fertiliser tank. This reduces the frequency of refilling liquid or fertiliser and increases operational efficiency in the field.

Professional Agricultural Drone for Precision Spraying, Spreading and Autonomous Operation.

The JT100 combines large working tanks, 360° radar, terrain following, dual atomisation and a breakpoint-resume function.

Key Benefits

Why Choose the JT100 Drone?

70L

70 L Spray Tank

The large tank capacity reduces downtime and increases productivity during spraying.

100L

100 L Fertiliser Tank

The high-capacity 100 L spreading tank enables operation with granular material weighing up to 80 kg.

360°

Obstacle-Avoidance Radar

The 360° system detects obstacles such as trees, poles and field infrastructure.

MAP

Automatic Flight Planning

Mission planning on a map enables repeatable and accurate work over large areas.

Spray System

Precise and Even Application of Spray Liquid

The JT100 uses a spraying system with 2 centrifugal nozzles, a working width exceeding 12 m and a flow rate of up to 30 L/min, enabling spraying to be adapted to different crop types. The solution is suitable for



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both row crops and orchards, where accurate crop coverage is important.

1

Spray Preparation

The 70 L tank allows a larger amount of spray liquid to be prepared and reduces frequent refilling during operation.

2

Dual Atomisation

Two centrifugal nozzles provide a spray width exceeding 12 m and a flow rate of 30 L/min for 2 nozzles.

3

Resume from Breakpoint

The breakpoint-resume function enables spraying or spreading to continue from the point where work was interrupted.

Spraying and Spreading

One Machine for Multiple Agricultural Tasks

The JT100 can operate both as a spraying drone and a fertiliser-spreading drone. The 100 L fertiliser tank, with a maximum material payload of 80 kg, enables efficient application of granular materials, while the load-detection sensor enables continuous monitoring of the fertiliser level during operation.

100L

Large Fertiliser Tank

A 100 L capacity and maximum 80 kg load reduce the number of stops during fertiliser spreading.

WAGA

Live Load Detection

The load sensor shows the current fertiliser level and helps maintain control over application.

AUTO



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Autonomous Operation

The automatic flight system facilitates completion of planned tasks on large fields.

FPV

Real-Time Monitoring

Two FPV Cameras enable operation monitoring and improve control of the drone in the field.

Safety and Control

Technology Supporting Stable Flight and Accurate Work

The drone is equipped with a 360° obstacle-avoidance radar, terrain-following radar, two FPV Cameras and LED lighting. This helps the machine respond more effectively to field conditions, obstacles and altitude changes during operation.

360°

Obstacle Avoidance

The 360° radar helps detect obstacles and increases operational safety in the field.

TERRAIN

Terrain-Following Radar

The system maintains a constant flight height over uneven or sloped terrain.

FPV

Two FPV Cameras

Real-time video viewing facilitates operational control and situational awareness in the field.

LED

LED Lighting

Lighting enables more convenient observation and supports work in reduced-visibility conditions.

Applications



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What Can You Use the JT100 For?

Spraying and Crop Protection

- Field-crop spraying.
- Crop protection.
- Precision application of spray liquid.

Orchards and Row Crops

- Orchard work.
- Treatment on plantations.
- Spraying in hard-to-reach areas.

Spreading and Contract Services

- Fertiliser spreading.
- Granular-material application.
- Agricultural contract services over large areas.

Reference Images

Additional JT100 Drone Images



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Field Operation

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Specifications

Product Specifications and Functions

Model **JT100**

Brand / Flight-Control System **JOYANCE**

Equipment Type **Agricultural Drone for Spraying and Fertiliser Spreading**

Spray Tank Capacity **70 l**

Fertiliser Tank Capacity **100 L, maximum 80 kg of material**

Net Weight **68 kg with 1 battery**

Maximum Take-Off Weight **Spraying: 140 kg / spreading: 150 kg**

Flight Time **10–15 min**

Flight Radius **0–1000 m**

Flight Altitude **0–30 m**

Flight Speed **0–12 m/s**

Operating Temperature **-10–70°C**

Operating Humidity **0–90%**

Spraying Speed **3–10 m/s**

Spray Width / Number of Nozzles **>12 m / 2 centrifugal nozzles**

Spray Flow Rate **30 L/min for 2 nozzles**

Spraying Capacity **20 ha/h**

Downwash Airflow **4–15 m/s**

Wind Resistance **10 m/s**

Unfolded Dimensions **3305 × 3577 × 850 mm, arms and propellers unfolded**



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Folded Dimensions **1270 × 880 × 880 mm, arms folded**

Motors **KV 46 (r/min) · V, 4650 W × 4**

Propellers **Carbon fibre, 1575 mm / 62 inches**

Remote Controller **Controller with 6-inch high-resolution display**

Battery **18S 30000 mAh**

Charger **9000 W fast charger**

Charging Time **13 minutes from 35% to 95%**

Transport Case **Aluminium case**

Tool Kit **Maintenance and repair tools**

360° Obstacle-Avoidance Radar **Height measurement 1–60 m; height setting 0.5–30 m; horizontal obstacle avoidance 1–50 m; field of view 50° horizontal and 10° vertical**

FPV Camera **Gimbal camera 1920 × 1080, 80° horizontal, 120° vertical**

Solid Fertiliser Spreader **Fertiliser spreading, 100 L tank, maximum 80 kg**

Work-Resume Function **Breakpoint resume – continuation from the interruption point**

Monitoring **Two FPV Cameras and LED lighting**

Flight Planning **Map-based automatic flight system**

Fertiliser Monitoring **Live load-detection sensor**

Applications **Spraying, fertiliser spreading, autonomous operation, precision agriculture**

Intended Use **Farms, orchards, plantations, large areas and agricultural contract services**

Condition **New**