

Orchard **Autonomous Sprayer**



Unmanned Driving · RTK Positioning · Intelligent Operation



www.ljtechag.com

COMPANY PROFILE

Jiangsu Lanjiang Intelligent Technology Co., Ltd. (referred to as "LJ Tech") is China's first vertically integrated agri-robotics solution provider. We own three revolutionary product lines: Orchard Robotics, Field Patrol & Management Robots, SAAS Digital Agriculture Platform. By owning every layer of technology – embedded hardware, AI algorithms, and cloud systems –we make farms work smarter, ensuring seamless coordination between machines, data, and workflows.

LJ Tech has taken a significant step in exporting agricultural robots to a dozen countries. We contribute to the global shift towards a green, unmanned, and intelligent future in agriculture.





APPLICATION SCENARIO



Convenient Structure

- Side opening design
- Easy to maintain core components

Long Endurance

- 500L water tank, longer spraying cycle
- Hybrid Power, diesel engine + super capacitor
- 6 Hr Endurance



Digital & Intelligent Features

- Spray Cutoff During Turns
 Saves chemicals by automatically stopping spray during turns
- Smart Monitoring
 Real-time device status & operation data tracking via mobile APP
- Smart-Refill

AI-powered algorithm calculates optimal refill points for maximum efficiency

Fleet Management(Optional)
 One-person can manage multiple machines
 via "Orchard Mate" APP

High ROI

- 3 times efficiency VS traditional machines
- Algorithm-driven, boosts consistency and output



Automated Driving System

- Multiple Mapping Ways
 Machine memory, path recorder, discrete point marking, drone mapping
- CM-Level Accuracy

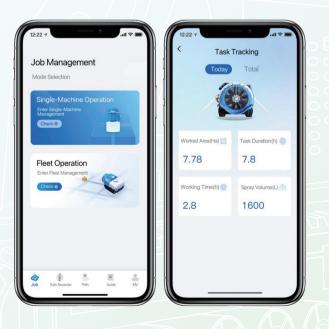
RTK technology supports ±5cm accuracy. Inertial navigation ensures continuous operation during brief signal loss

Human Safety

Distance prevents pesticides poisoning Night work becomes easy as day work Machine work lowers labor intensity

Machine Safety

Millimeter Wave radar, weak-signal stop, lowliquid-level stop, lateral-offset stop



DATA PARAMETERS

Basic Configuration	
Overall dimensions	2634mm(L)*1200mm(W)*1365mm(H)
Unloaded weight	1050kg
Power type	Range-extended Electric Powertrain
Endurance time	≥6h
Power System	16kW / 21Hp diesel engine(Euro 5), 40V-67.2V Super Capacitor
Generator power	8kW
Chassis type	Track chassis
Ground clearance	18cm
Travel speed	0-3.2km/h
Climbing angle	≤10° for constant slope
IP Rating	IP55
Spray System	
Water tank capacity	500L + Recirculation mixing system
Rated pressure	0-3.5MPa
Flow range	0-42 L/min
Number of Nozzles	12
Spray radius	15m wide, 5-7 m high
Atomization effect	80-200 μm
Autopilot System	
Ways of navigation	GNSS + RTK (Base Station/ CORS Net) + IMU(Inertial Navigation)
Positioning accuracy	± 5 cm
Saftety	Milimeter Wave Radar/ Low-liquid-level Stop/ Weak-signal Stop/ Lateral-offset Stop
Intelligence	Path Sharing/Stop spraying during turning/ Smart Refilling Alert/Fleet Management(optional)
Smart Remote (Optional)	Path Tracking; Real-time Data Monitoring ; Video-transmission Display
Interactive System	PC, Big data management platform, APP of Smart phone





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