

Orchard Autonomous Sprayer

S450

RTK Unmanned Driving · Long Endurance · High Efficiency



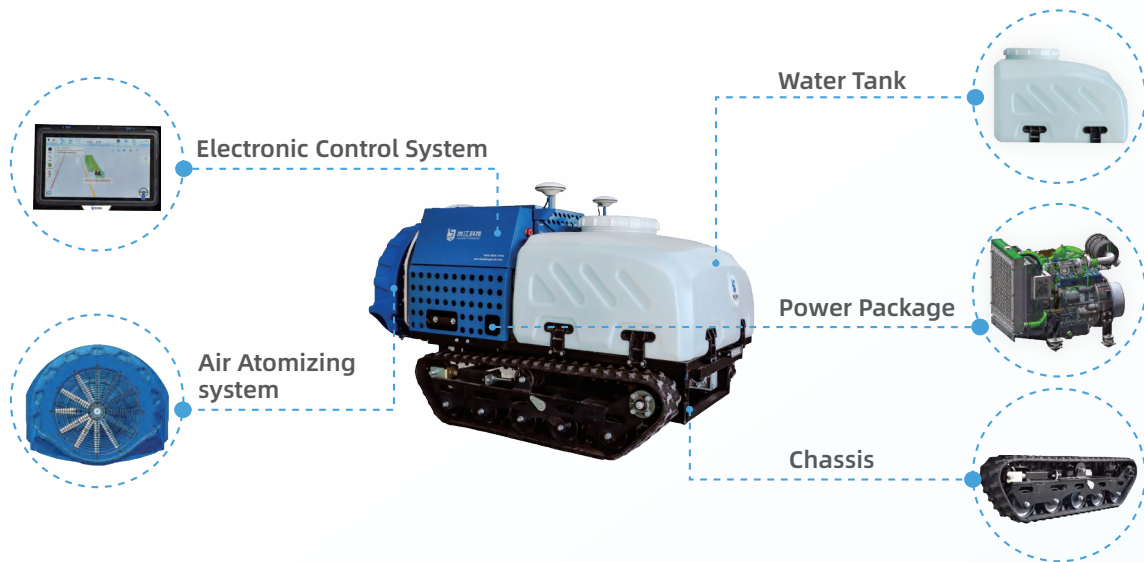
COMPANY PROFILE

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.



PRODUCT STRUCTURE



APPLICATION SCENARIO



Automated Driving System

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

RTK technology supports $\pm 5\text{cm}$ 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**

Ultra-sonic radar, weak-signal stop, low-liquid-level stop, lateral-offset stop



Digital & Intelligent Features

- **Spray Cutoff During Turns**

Saves chemicals by automatically stopping spray during turns
- **Smart Monitoring(Optional)**

Real-time device status & operation data tracking via mobile APP
- **Smart-Refill (Optional)**

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



DATA PARAMETERS

Basic Configuration	
Overall dimensions	2100mm(L)*1200mm(W)*1200mm(H)
Unloaded weight	600kg
Power type	Range-extended Electric Powertrain
Endurance time	≥5h
Power System	13kW / 17Hp diesel engine, 48 V 44 AH lead-acid battery
Generator power	5kW
Chassis type	Track chassis
Ground clearance	16cm
Travel speed	0-3.6km/h
Climbing angle	≤15° for constant slope
IP Rating	IP55
Spray System	
Water tank capacity	450L
Rated pressure	0-3.5MPa
Flow range	0-42 L/min
Number of Nozzles	12
Spray radius	30m wide, 7-10m high
Atomization effect	80-200 μm
Work Efficiency	1.33Ha/h (4m row spacing, 3.6km/h walking speed)
Autopilot System	
Ways of navigation	GNSS + RTK (Base Station/ CORS Net)+IMU(Inertial Navigation)
Positioning accuracy	± 5 cm
Safety	Ultra-sonic Radar/ Low-liquid-level Stop/ Weak-signal Stop/ Lateral-offset Stop
Intelligence	Path Sharing/ Stop spraying during turning/ Smart Refilling Alert(Optional)/ 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



WhatsApp



Youtube



Instagram

JIANGSU LANJIANG INTELLIGENT TECHNOLOGY CO., LTD



sales@lanjiangtech.com

Tel: +86 25 8222 0253 web: www.ljtechag.com

5TH FLOOR, BUILDING 3, JIANGSU INTERNATIONAL DATA PORT, 108 XUANWU AVENUE,
XUANWU DISTRICT, NANJING, CHINA