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AUTONOMOUS SPRAYING ROBOT

Product Description

Specially designed to address the challenges of fertilization and spraying for vine crops and small shrub plants (such as grapes, goji berries, citrus, apples, and other economic crops).

Application scenarios: Hilly and mountainous orchards or plant protection for economic crops.

Core functions: Supports night operation, remote control, fleet operation, and high-efficiency atomized spraying.

Performance Characteristics

- ◆ Intelligent and Precise Operation
- ◆ Energy Saving, Environmental Protection
- ◆ High-Efficiency Operation
- ◆ Flexible Design and Multifunctionality



Product Features

- ✓ Autonomous navigation: Achieves high-precision navigation, improving operational efficiency and accuracy.
- ✓ Human – chemical separation and intelligent control: Simplifies operation, ensures separation between chemicals and operators, and enhances safety.
- ✓ Atomization effect: Uniform atomization without damaging fruit surfaces, improving pesticide and fertilizer utilization efficiency.
- ✓ Energy efficiency: Powered by lithium batteries, supports pure electric operation with low energy consumption, long endurance, and reduced carbon emissions.
- ✓ Water and chemical saving: Saves 40 – 55% of water and chemical usage per mu (depending on crops), effectively reducing planting costs and preventing excessive pesticide residues.
- ✓ Operational efficiency: Depending on the type of operation, productivity can reach 10 – 12 mu per hour, with

daily operation exceeding 100 mu.

- ✓ Fleet operation: Supports coordinated operation of multiple machines, solving labor shortages in large-scale bases.
- ✓ Modular design: Supports flexible replacement of task payloads to adapt to different operational requirements.

Weeding Module

Designed specifically for complex farmland environments, this machine integrates high-efficiency mowing and precision spraying in one solution.

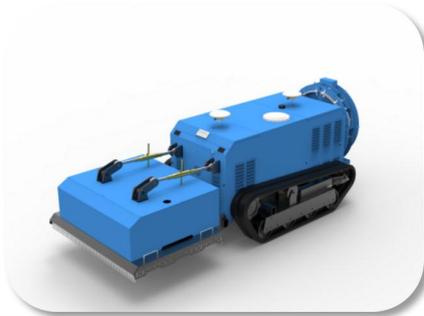
It offers three mowing modes—inter-row, intra-row, and flail mowing—available as optional configurations to comprehensively meet diverse weed-control needs.

Equipped with an intelligent control system, it supports remote control, unmanned operation, and path planning, ensuring safe and efficient operation.

The adjustable chassis height allows it to easily adapt to varied and challenging terrain.



Swing Blade Weeding



Inter-row Weeding



Intra-row Weeding

Product Parameters

	Item Name	Unit	Details
Weight	Model & Specs	/	3W-120L
	Overall Dimensions	mm	1430×950×840 (±5%)
	Working Pressure	MPa	2
	Drive Type	/	Crawler Drive
	Steering Type	/	Differential Steering
	Horizontal Spraying Width	m	16
	Minimum Spray Height Clearance	mm	110
	Climbing Angle	°	30

	Track Width	mm	105
	Track Height	mm	72
	Number of Track Sections	/	37
	Weight	kg	360
	Travel Motor Power	kW	1.0*2
	Fan Motor Power	kW	1.5
	Water Pump Power	kW	1.1
Water Pump	Pump Structure Type	/	Plunger Pump
	Rated Working Pressure	MPa	0~5
	Pressure Control Type	/	Spring Type
Chemical Tank	Material	/	PE
	Tank Volume	L	120
Fan Assembly	Blade Material	/	Nylon Blade + Metal Blade Ring
	Blade Diameter	mm	500
	Nozzle Rod Material	/	Stainless Steel
Drive Motor	Name	/	Motor
	Motor Type	/	DC
	Rated Power	kW×qty	1×4
	Rated Speed	r/min	3000
	Operating Voltage	V	48
Battery	Type	/	Lithium Battery
	Rated Voltage	V	48
	Number of Internal Units	pcs	2

Application Scenarios

