

 Shaanxi Shangyida IoT Technology Co., Ltd.

 029-85796416

 shangyidaservice@gmail.com

 <https://www.sydauto.com/>

 3rd Floor, Building B6, No. 176 Biyuan 2nd Road, High-Tech Zone, Xi'an City, Shaanxi Province, China

## AUTONOMOUS SPRAYING ROBOT

### Product Description

This device is specifically developed to address the challenges of fertilizing and spraying vine plants and small shrubs—such as grapes, goji berries, citrus, apples, and other economic crops. It features intelligent operation, capability for nighttime work, strong terrain adaptability, flexible payload replacement, excellent atomization, and efficient, cost-saving use of fertilizers and pesticides. It offers high efficiency and user-friendly convenience.

### Performance Characteristics

- ◆ Autonomous navigation
- ◆ Module design
- ◆ Remote control formation operations
- ◆ Save water and medicine
- ◆ 7\*24 hours continuous operation
- ◆ Quick battery replacement



### Product Features

- ① New energy technology, energy conservation and environmental protection, low usage costs, and the ability to operate continuously 24\*7.
- ② Human-medicine separation, intelligent control, simpler operation, and safer usage.
- ③ Water and medicine conservation, with a reduction in water and pesticide usage per mu by 40-55% (depending on the crop), lowering cultivation costs, and preventing excessive pesticide residues.
- ④ Uniform atomization that does not damage the fruit surface, enhancing the utilization rate of pesticides and fertilizers.
- ⑤ High efficiency, with the ability to work on 10-15 mu per hour (depending on the crop), and a maximum daily working area of over 120 mu.
- ⑥ Equipped with the ability to operate in formation, effectively solving labor shortages and shortening

operation time for large-scale operations.

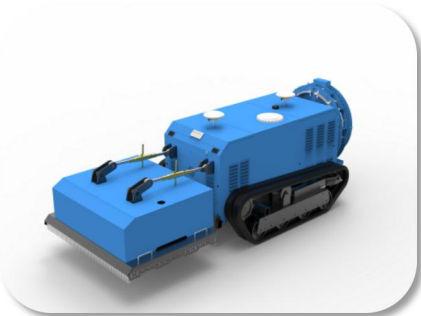
## Weeding Module

Specifically designed for complex farmland, this machine integrates high-efficiency mowing and precision spraying in one unit. It offers three mowing modes—row mowing, intra-plant (intercrop) mowing, and rotary blade mowing—to fully meet diverse weeding needs through optional configurations.

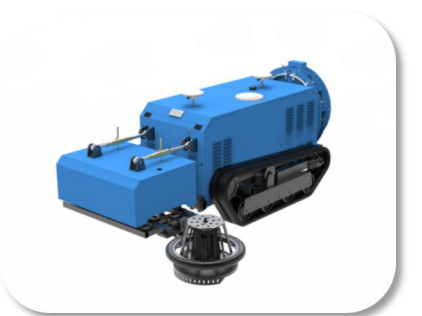
Equipped with an intelligent control system, it supports remote control, autonomous operation, and path planning, ensuring safe and efficient performance. The adjustable chassis height allows it to adapt easily to varying terrains.



Swing Blade Weeding



Inter-row Weeding



Intra-row Weeding

## Product Parameters

Project name		unit	Details
The whole machine	Model specifications	/	3W-120L
	External dimensions	mm	1430x950x840(±5%)
	Working pressure	MPa	2
	Drive type	/	Track drive
	Steering type	/	Differential steering
	Horizontal range or spray range	m	16
	Minimum ground clearance	mm	110
	Climbing angle	°	30
	Track width	mm	150
	Track pitch	mm	72
	Number of track sections	/	37
Liquid pump	Structural type	/	Plunger pump
	Rated working pressure	MPa	0~5
	Pressure limiting type	/	Spring-loaded
Medicine box	Material	/	PE
	Volume of medicine box	L	120

Fan assembly	Impeller material	/	Nylon blades, metal hub
	Impeller diameter	mm	500
	Spray boom material	/	Stainless steel
Power matching	Name	/	Electric motor
	Structural type	/	Direct current (DC)
	Rated power	kW× (Number)	1x4
	Rated speed	r/min	3000
	Operating voltage	V	48
Battery	Type	/	Lithium battery
	Nominal voltage	V	48
	Built-in quantity	piece	2

Application Scenarios

