







## Intelligent Agricultural Plant Protection Robot (3W-120L)

### Product Description





The intelligent agricultural plant protection robot is meticulously developed to address the challenges of fertilizing and applying pesticides to vine plants and small shrubs such as grapes, goji berries, citrus fruits, apples, and other economic crops. It not only features intelligent operation, capability for nighttime operations, and strong terrain adaptability, but also allows for easy replacement of task loads, achieving precise atomization, and saving on fertilizers and pesticides. The robot's design enhances agricultural precision and efficiency, effectively reducing labor costs and environmental impact.

### Performance Characteristics

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



### Product Features

-  New energy technology, energy conservation and environmental protection, low usage costs, with the ability for 7\*24 continuous operation.
-  Human-drug separation, intelligent control, simpler operation, and safer use.
-  Water and medicine conservation, with a 40-55% reduction in per-acre medication usage (depending on the crop), reducing cultivation costs and preventing agricultural residues from exceeding standards.
-  Uniform atomization, no damage to fruit surfaces, and improved utilization efficiency of pesticides and fertilizers.

- ⑤ High efficiency, with hourly operation covering 10-15 mu (depending on the crop), and daily operation reaching over 120 mu or more.
- ⑥ Possessing the ability to operate in formation, it thoroughly addresses the pain points of labor shortages and short operation cycles in large-scale bases.

## 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

### Plant Protection Operation

