

Overview



G300 UGV

The G300 unmanned ground vehicle is one of our latest state of the art farm tractors specially designed for smart precision high efficient pesticides, fungicides and fertilizers spraying operation for various kinds of orchards and gardens. It is driven by 100% electric power, up to 5 hours long working endurance. It can drive and work fully autonomously and manually. Farmers can stay far away from harmful pesticides when operation.

Tractor body is anti-corrosion coated. It's slim body design is to improve driving-through performance. The most significant favorable feature is that it is equipped with ultra high performance Matilda balance suspension and composite rubber Kevlar fiber caterpillar track that enable the vehicle ultra powerful climbing and off-road driving capability. It can drive through areas with up to 45 degrees slopes with a piece of cake.

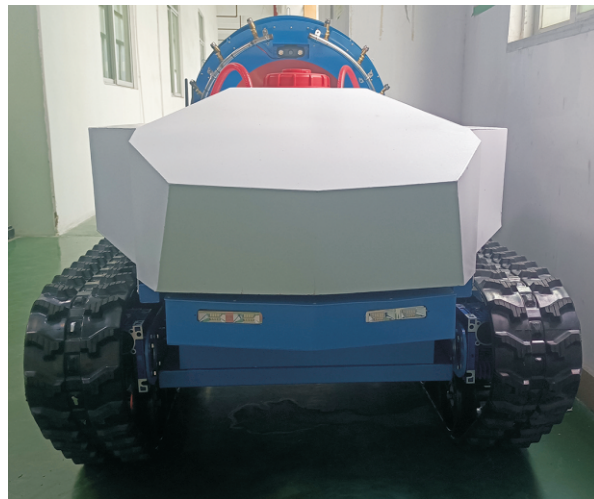
There are a group of 10 special high pressure nozzles fixed inside the vehicle that can produce ultra small atomized droplet as small as only 50~200 micrometers. This feature enables the sprayer powerful spraying capability for those crops that need ultra fine spraying effect. Spraying range reaches up to 15 M spray width and 5 M spray height, which is ideal for fruit trees with canopies of up to 2 to 4 meters' height.

From farmer's point of view, the G300 is an excellent partner for those who need extremely powerful climbing and off-road driving capability. It is also very reliable, easy to use and maintain that help farmers save lots of time.

Key Features

- 1) 300 L super large capacity, up to 15 M spray width and 5 M spray height
- 2) Fully autonomous operation and spraying
- 3) Excellent atomization, 50 - 200 μm atomized particle size

- 4) UP to 45 degrees powerful hills climbing, obstacle surmounting capability
- 5) Anti-corrosion tractor body
- 6) High pressure spray flow, less spray drift, evenly sprayed over leaf surface and back
- 7) Matilda balance suspension, excellent shock absorption to adapt to complex road surface conditions
- 8) Powerful rubber Kevlar fiber caterpillar track that enable the vehicle powerful off-road driving ability
- 9) Centimeter-level accuracy positioning RTK optional



Front View



Side View

Specifications

Model	G300
Product Name	300 L Fully Autonomous Orchard Tractor Sprayer / Unmanned Ground Vehicle Sprayer
Capacity /Payload	300 L
Maximum driving speed	3 meter /s
Operation mode	Fully autonomous/Manual
Battery	12V 25 Ah Lead-acid battery *4,
Max. Upslope/Downslope angle	45 degrees
Charging Time	60 minutes
Spray System	
Tank Capacity/Payload	300 L
Spraying Mode	High pressure piston pump spraying
Atomized Droplet Size	50~200 µm (micrometers)
Effective Spraying Range	Width: 15 M ; Height: 5 M
Endurance time	300 Min
Spray Efficiency	1 Ha/Hour
Spray angle	180 degrees
Max Spraying Flow Rate	20 L/min
Application	Suitable for spraying pesticide, fungicide and liquid fertilizer for fruit trees
Driving Control & Obstacle Avoidance	
Control Method	Fully autonomously(Self-driving) , manually (GNSS disable),
Global navigation satellite system (GNSS)	GPS, BEIDOU, GLONASS
Obstacle Avoidance	Fully autonomously front and rear obstacle avoidance
Remote Control	Remote Control with FHD display
IP Rating	IP67
Operating Temperature	10~50℃
Net Weight	200 KGS
Gross Weight	TBD
Dimension	2000*1100*1200mm
Packaging Size	TBD
Packaging List	Unmanned ground vehicle *1, Battery Charger*1, Battery *4, Remote control*1