

Overview



G200 UGV

The G200 unmanned ground vehicle is one of our latest cutting edge 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 6 hours long working endurance, able to work fine at all weather condition. It can drive and work fully autonomously and manually. Farmers can stay far away from harmful pesticides when operation.

Tractor body is made of new material of advanced high strength steel. It is anti-corrosion coated. It's special slim streamlined body design is to reduce damage caused to fruit trees during operation. The more interesting is that it is equipped with 100% stainless steel suspension, high torque motor and composite rubber caterpillar track that enable the vehicle powerful climbing and off-road driving capability. It can drive through areas with up to 30 degrees slopes with a piece of cake.

There are a group of 8 special nozzles driven by high pressure piston pumps fixed inside the vehicle that can produce ultra small atomized droplet as small as only 10~35 micrometers. This feature enables the sprayer powerful spraying capability for those crops that need ultra fine spraying effect. Spraying range reaches up to 16 M spray width and 8 M spray height, which is ideal for tall fruit trees with canopies of up to 5 to 6 meters' height.

From farmer's point of view, the G200 is an excellent partner that can help farmers a lot when spraying over tall fruit tree canopy. It is also very reliable, easy to use and maintain that help farmers save lots of time.

Key Features

- 1) 200 L large capacity, up to 16 M spray width and 8 M spray height
- 2) Fully autonomous operation and spraying
- 3) Excellent atomization, 10 - 35 μm atomized particle size
- 4) UP to 30 degrees powerful hills and stairs climbing, obstacle surmounting capability

- 5) More than 3 years' continuous field test before releasing, module design, highly stable and reliable
- 6) High strength tractor body, anti-corrosion, slim streamlined design to reduce damage caused to fruit trees
- 7) 100% stainless steel suspension, high torque motor and composite rubber caterpillar track that enable the vehicle powerful climbing and off-road driving ability
- 8) Built-in latest highly advanced cutting edge car grade LiPo batteries, longer endurance
- 9) Spray height can be manually adjusted using remote controller
- 10) Smart app client to monitor and record the status of the vehicle and its' operation process in real time automatically
- 11) Centimeter-level accuracy positioning RTK optional



Front View



Side View

Specifications

Model	G200
Product Name	200 L Fully Autonomous Orchard Tractor Sprayer / Unmanned Ground Vehicle Sprayer
Capacity /Payload	200 L
Maximum driving speed	1.2 meter /s
Operation mode	Fully autonomous/Manual
Battery	Built-in battery
Max. Upslope/Downslope angle	30 degrees
Charging Time	90~120 minutes
Spray System	
Tank Capacity/Payload	200L
Spraying Mode	High pressure piston pump spraying
Atomized Droplet Size	10~35 µm (micrometers)
Effective Spraying Range	Width: 16 M ; Height: 8 M
Endurance time	180~360 Min
Spray Efficiency	0.6~1.3 Ha/Hour
Spray angle	180 degrees
Max Spraying Flow Rate	12 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°C
Net Weight	300 KGS
Gross Weight	TBD
Dimension	1640*1070*1150mm
Packaging Size	TBD
Packaging List	Unmanned ground vehicle *1, Battery Charging cable*1, Remote control*1