

## Overview



G700 UGV

The G700 unmanned ground vehicle is our latest state of the art mini farm tractor 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 1 hour 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 2 jet sprayers fixed on the vehicle that can produce ultra small atomized droplet as small as only 50~200 micrometers. The jet sprayers are driven by high power air pressure booster pump on the tractor. This feature enables the sprayer powerful spraying capability for those crops that need ultra fine spraying effect. Spraying range reaches up to 12 M spray width and 4 M spray height, which is ideal for fruit trees with canopies of up to 1 to 3 meters' height.

From farmer's point of view, the G700 is a good 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) 70 L large capacity, up to 12 M spray width and 4 M spray height
- 2) Fully Autonomous operation and spraying, high accurate spraying flow
- 3) Excellent atomization, 50~200  $\mu\text{m}$  atomized particle size
- 4) UP to 45 degrees powerful hills climbing, obstacle surmounting capability

5) Anti-corrosion tractor body

6) Matilda balance suspension, excellent shock absorption to adapt to complex road surface conditions

7) Powerful rubber Kevlar fiber caterpillar track that enable the vehicle powerful off-road driving ability

8) Centimeter-level accuracy positioning RTK optional



Front View



Rear View

## Specifications

Model	G700
Product Name	70 L Fully Autonomous Farm Tractor / Unmanned Ground Vehicle for Spraying
Capacity /Payload	70 L
Rated power of single motor	1000 W
Motor quantity	2
Rated speed of motor	2800 RPM
Maximum driving speed	1 meter /s
Operation mode	Fully autonomous/Manual
Battery	14S 44.4V 22,000 mAh LiPo battery *2 / 12V 25 Ah Lead-acid battery *4
Max. Upslope/Downslope angle	45 degrees
Smart battery charger	1200 W
Charging Time	60 minutes
<b>Spray System</b>	
Tank Capacity/Payload	70L
Spraying Mode	Air pressure booster pump spraying
Atomized Droplet Size	50~200 μm (micrometers)
Atomization device	Built-in 1000W Air pressure booster pump to blow, disperse and atomize the mist into droplet of 50~200 μm
Effective Spraying Width	10~12 M
Effective Spraying Range	Width: 10~12 M ; Height: 2~4 M
Endurance time	40~60 Min
Spray Efficiency	0.4 Ha/Hour
spray angle	180 degrees
Max Spraying Flow Rate	2 L/min
Application	Suitable for spraying pesticide and liquid fertilizer for fruit trees
<b>Driving Control &amp; Obstacle Avoidance</b>	
Control Method	Fully autonomously (autopilot) , 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
Camera	Single-axis PTZ camera
IP Rating	IP67
Operating Temperature	10~50 °C
Net Weight	160 KGS
Gross Weight	230 KGS
Dimension	1300*880*520 mm
Packaging Size	1400*1000*700mm (Wooden box)
Packaging List	Unmanned ground vehicle *1, Battery Charger*1, Battery *2, Remote control*1