

Technical Specifications

GNSS Autosteer System

Ver.2023.07.17

Positioning Accuracy

Real time kinematics(RTK)	8mm+1ppm(Horizontal) 15mm+1ppm(Vertical)
Velocity accuracy	<0.02 m/s
Initialization Time	<10 s
Initialization reliability	99.9%

Performance

Pass to pass accuracy	±2.5cm
Work speed	0.1~20km/h
Work scene	Low / High speed, Straight / Curve Automatic U-turn

Physical

Operating Temperature	-30°C~+70°C
Storage Temperature	-40°C~+85°C

Electric Steering Wheel

Power input	12V~24V
Torque	6.2 N·m
Wheel diameter	171 mm
Motor height	94.3 mm

GNSS Tablet

Size	10.1"
Resolution Rate	1280*720
Memory	2GB RAM (4GB is optional) 16G ROM (64GB is optional)
Operating System	Android 7.1
Waterproof and dustproof	IP66

Signal Tracking

GPS	L1C/A,L2C,L2P
BDS	B1I,B3I
BDS Global	B1C,B2b
GLONASS	G1,G2
Galileo	E1,E5b
QZSS	L1,L2

Communication and Data

Wifi/Bluetooth	Yes
Type C port	1
USB port	3
TF card slot	1
Dual-SIM card slot	1
GNSS Antenna port	2
UHF Antenna port	1
4G antenna port	1
Lemo port	3 (including RS232/RJ45 PPS/EVENT/CAN/USB)

All Farming Procedures



Ridging



Seeding



Spraying



Harvesting

AG502 Autosteering System



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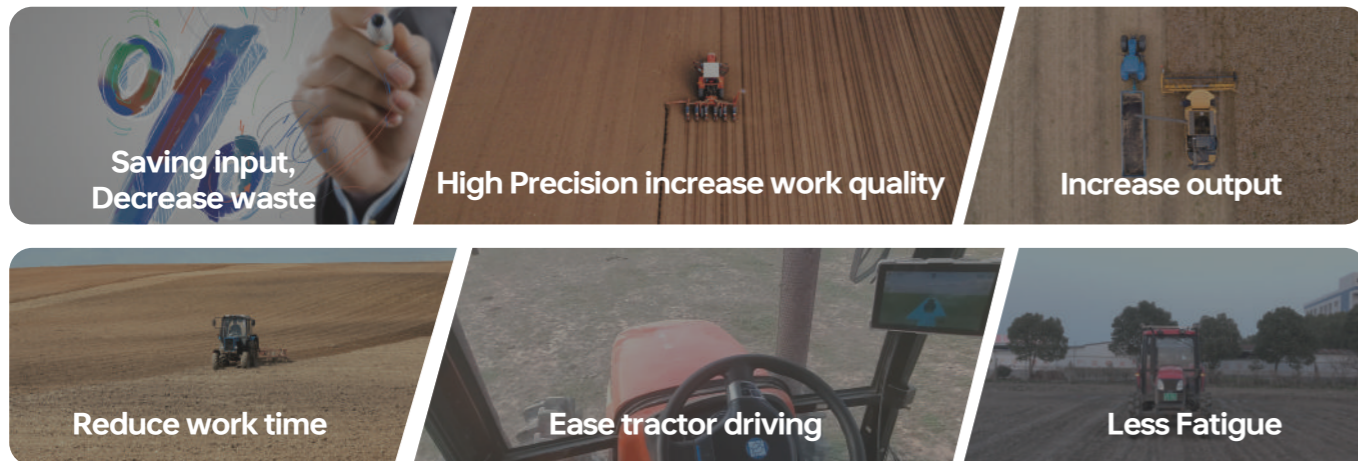


AG502 Autosteer System

AG502 is a comprehensive system integrating satellite reception, positioning, navigation and automatic driving. It is mainly composed of GNSS tablet, electric steering wheel, angle sensors and GNSS antennas. Straight, curve, automatic U-turn driving can be switched freely. Humanized system is clear and intuitive for easy use. AG502 is compatible with a variety of mainstream tractors on the market today. At the same time, the system can also be applied to all the farming procedures, like ridging, seeding, spraying and harvesting.



Benefits



Main Components

Electric Steering Wheel

- High-torque motor and nimble reaction, Excellent stability
- Compatible to most tractors types
- Easy to use

GNSS Tablet

- 10.1" inch tablet
- Rugged design, Dust-proof, shock-proof
- Integrated design, Low latency
- High resolution, sunlight readable



Angle sensor

- Three-axis Gyroscope, suitable for multiple terrain conditions
- Quick install, stable use

GNSS Antenna

- Multi-frequency, high precision
- Multi-constellation, stable signal
- Quick and convenient to install

Features



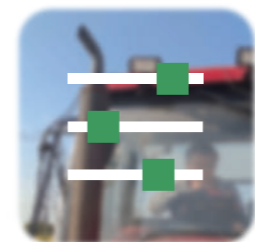
Multiple work modes

- Straight Lines
- Curves
- Automatic U-turn



High Accuracy

- ±2.5cm in straight line work mode
- Reduce overlapping



Easy Calibration

- Quick calibration after installation



Intuitive Software

- 2D/3D Software, easy to learn and use