



N500

GNSS Auto Steering System

NST® N500™ Auto Steering System revolutionizes farming efficiency with high-tech driven precision. This advanced system delivers centimeter-level accuracy by GNSS-RTK navigation, enabling automated field operations like plowing, seeding, and harvesting. This system features intelligent path optimization, multi-machine coordination, and adaptive terrain handling for 24/7 productivity.

Here are the advantages of this product: Cut fuel costs by 30%, reduce human errors by 95%, and seamlessly integrate with smart farming ecosystems. Built with IP67 protection and universal tractor compatibility, it's born for tomorrow's smart agriculture.

PRECISION NAVIGATION & AUTO-PATH PLANNING

To achieve centimeter-level accuracy with GNSS-RTK technology, the N500 autonomously maps fields and optimizes routes to minimize overlaps and gaps, ensuring maximum coverage and efficiency. Smart farming is not so hard.

U-TURN FUNCTION

This system ensures smooth, automated end-row turns for tractors, which enhances operational agility, reduces manual correction and saves your energy while maintaining uninterrupted workflow in daily farming. By intelligently managing turn precision and path alignment, it minimizes downtime and maximizes field coverage efficiency.

PPP FUNCTION

Precise Point Positioning (PPP) can provide global, centimeter-level GNSS accuracy without a local base station. With satellite-delivered corrections, no Internet connection is required.

ISOBUS

Control mixed implements via one terminal with universal ISO 11783 compatibility. No more messy cables, long setup time, or slow diagnostic response. It sweeps away these headaches for good.

BROAD COMPATIBILITY

Compatible with most tractor brands on the market, it can be easily installed and works perfectly on your favorite tractor.

Features

- 10.1-inch touch screen
- Android 11 operating system
- High-torque motor wheel
- All-in-one GNSS receiver
- $\pm 2.5\text{cm}$ RTK accuracy
- PPP function
- Cross-device path transfer
- Terrain compensation
- NMEA data transfer
- Smart U-TURN
- ISOBUS



N500 GNSS Auto Steering System

Control Tablet	
System	
Operating System	Android 11
LCD	10.1" Capacitive Touch Screen
Physical Parameters	
IP Rating	IP67
Dimension	263mm*181mm*45mm
Weight	1.7kg

Tablet Communication	
Wi-Fi	IEEE 802.11 a/b/g/n/ac/r 2.4G&4G&5G network
Bluetooth	Ver 5.0 supports BLE
Interfaces	CANBUS*2, RS232*1, RS485*1

Smart GNSS Receiver	
Built-in GNSS board, IMU sensor, Radio, Antenna	
Physical Dimension	179mm*179mm*69mm
Weight	1.1kg
IP Rating	IP67
Power Supply	DC 9~36V
GNSS Support	GPS L1/L2, BDS B1/B2, QZSS L1/L2/L5 GLONASS L1/L2, Galileo E1/E5a/E5b
Communication Protocol	NMEA 0183, Unicre

High-Torque Motor Wheel	
Motor Performance	
Rated Torque	4Nm
Maximum Torque	9Nm
Power Supply	DC 6V~35V
Physical Dimension	
Diameter	182mm (motor)
Thickness	61mm (motor)
Material	Aluminum alloy (motor)
Weight	2.9kg (motor)
Diameter	410mm (steering wheel)

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