

JHXH001

AUTO STEERING SYSTEM

Precise and efficient to achieve the best farming results



Combined navigation



anti-disturbance endurance



slope compensation



automatic U-turn



OTA upgrade



remote debugging



24-hour operation



CORS service



star-based enhanced



screen-less operation



Job share



single/dual antenna

JHXH001 is a low-speed assisted driving system based on satellite positioning and body inertia, which is mainly used in agricultural fields and construction fields. The combined navigation fusion algorithm will be used for the first time, which can eliminate the interference caused by equipment and environment, output more accurate positioning accuracy and body compensation results, realize the precise control of vehicles in different scenarios, ensure the operation error within 2.5 cm, and realize 24 hours uninterrupted work in day and night environment. Based on the technical advantages of combined navigation, it can meet the automatic operation in the case of short-time GNSS signal loss. The automatic driving operation of agricultural machinery can cover the whole operation link of "cultivation, management and harvest", which solves the problem of non-standard operation, reduces the labor intensity of drivers, and improves the operation efficiency and crop yield.



Satellite navigation antenna

- Single antenna solution, compact and light, with higher integration
- Multi-frequency, multi-mode, high precision, supports global mainstream satellite systems
- IP67 protection, no fear of rain and dust



High-precision combined navigation

- Accurately identify vehicle posture, direction, and rotation speed
- Automatic slope compensation, more accurate operation



Electric steering wheel

- High torque steering wheel, millisecond response, more stable and more sensitive
- Strong versatility, compatible with various brands and models



In-vehicle display terminal

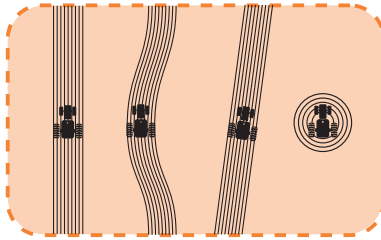
- 10.1-inch dual 4G touch screen, easier to operate
- Outstanding material, waterproof, dustproof, shockproof, durable
- High-brightness screen, high resolution, still clearly visible in strong light

Functional Advantages



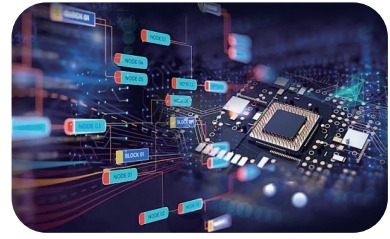
Combined navigation technology support

The self-developed combined navigation fusion algorithm greatly improves the anti-interference ability of positioning and attitude. Through data fusion, it improves the update rate and stability of data, and ensures the accurate control of automatic driving automatic control technology in various operation scenarios.



Support for multiple job routes

Support a variety of linear and curve planning methods, more widely used; slope operation, hard and soft operation stronger; meet different operation speed requirements, ultra low speed to 0.3 km / s, high speed to 15 km / h.



Rich interface configuration

The device supports RS232, RS422, RS485, PPS, ACC, CAN, Ethernet and other interfaces, which can realize time synchronization and data interaction with other devices. Some types of interfaces support directional configuration;; 9-36V wide voltage design to meet various power connection modes.



Support for remote debugging and upgrading

Remote real-time viewing of data, and quickly guide operation; remote capture of job data, quickly solve user problems; support remote OTA upgrade, enjoy functions more convenient.



Multiple combinations are more convenient

Support single / dual antenna mode, meet the installation requirements of different vehicles; support no display operation, higher cost performance; more convenient without Angle sensor, installation; simple interface with fewer steps and easier operation.



Cloud + -end data is more secure

Job information is stored in the cloud to ensure that user data is not lost; the device supports local storage and breakpoint endurance, to ensure that the users job data is not lost; supports mobile APP job query, allowing users to pay attention to job information in real time; supports job sharing of cloud and kinders, and enables data sharing and collaborative operation between agricultural machinery.

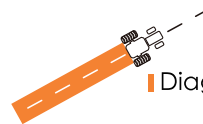
Multiple Operation Modes



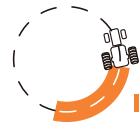
Straight line



curve



Diagonal rake



Concentric circles



A+ Line



Slope



Ultra-low speed



Ultra-high speed

Product Results

Save labor costs

≥ 20,000
yuan/year/set

Increase land utilization

by 7%-10%
/year/set

Reduce pesticide usage

5%
by more than

Increase operating efficiency

3%
by more than

Application Scenario



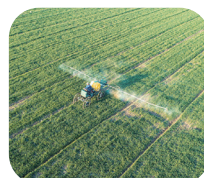
Furrowing



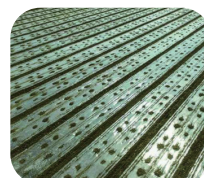
Rigging



Sowing



Spraying



Laying film



Harvesting