

The background features a collection of components for the FJDynamics Autosteering Kit, including a steering wheel, a control unit with a screen, various sensors, and actuators, all rendered in a dark, semi-transparent style.

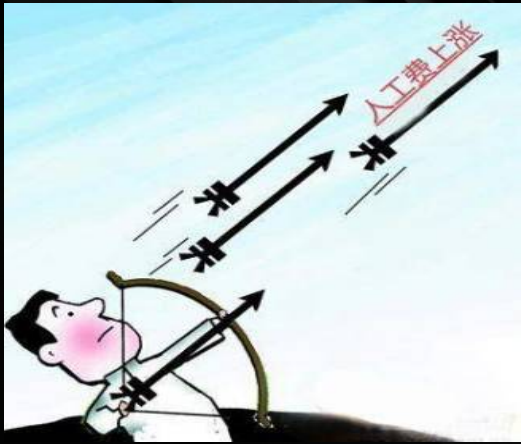
# FJDynamics Autosteering Kit

# PART 01

# Industry Pain Points

# Industry Pain Points

## Industry Status



### High labor costs

High labor costs, manual operation requires a high degree of concentration of the driver.



### Poor quality of farming

Low operating quality and irregular operating curve will reduce the efficiency of land use.



### Unable to work at night

The operating season is short, manual driving can only support work during the day.

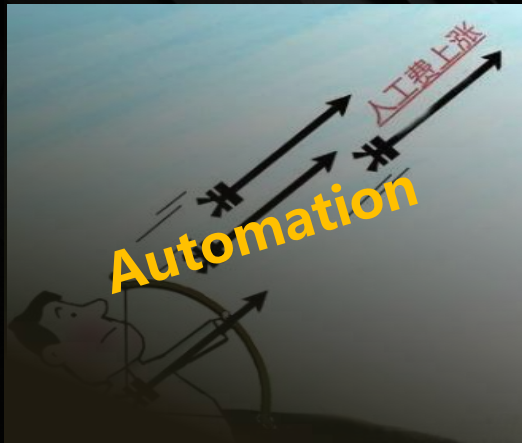


### Low input-output ratio

Unable to systematically plan the purchase of seeds, pesticides and other materials

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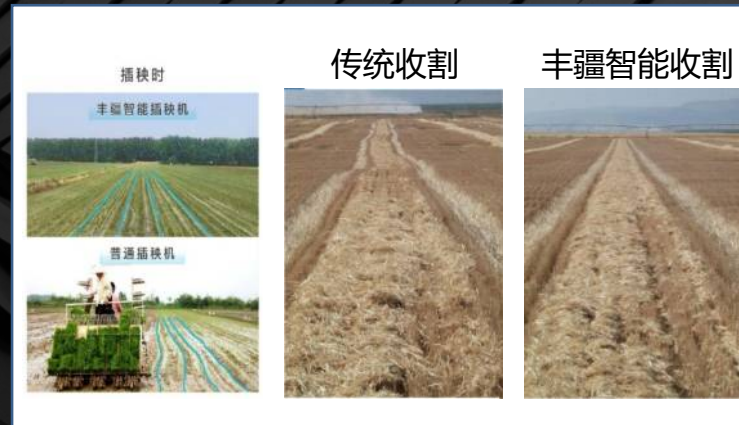
# Industry Pain Points

## Our current service



### Free hands, reduce labor

No need for manual controlling of the steering wheel, only one person is needed.



### Straight and Efficient

Keep driving on a straight line, make most of land efficiency.



### Autosteering, work at night

Ensure perfect driving performance at night



FJDynamics

**PART 02**

**Product Introduction**



FJ DYNAMICS  
丰疆智能



# Core Components

## Control Terminal



Displays real-time working path, vehicle position and RTK status;  
Displays task history and saved guidance lines;  
Sends out control signals to the steering wheel motor to realize driving in the target direction.



## GNSS Antenna

Dual GNSS antennas receive info of positioning and orientation for a better control of the autonomous driving.

## Electric Steering Wheel

High-torque electric wheel;  
Max torque: 30 N M, capable even in demanding scenarios;  
Inter-changeable between self-driving and manual control.



## Angle Sensor

Installed on the steering axle to sense and turn the steering angle into voltages that are recognizable by sensors, which determines if the vehicle is driving straightly.

Installed horizontally in the cab to measure the vehicle's pitch angle and roll angle etc. to correct and assist autonomous straight-line driving.



## IMU



## Extended accessories

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**Base Station** | Provide RTK signal



**Wi-Fi Camera** | Image monitor  
Night vision



90% Tractor



Rice Planter



Plant-protecting machine



Harvester

**Support multiple types of agricultural machinery**

# Reasons for choosing FJDynamics



**Easy to install and grasp**



**Good quality - 2.5cm precision  
Low price - 2700\$**



**Go straight on slope field, continue to  
work 20min when lost RTK signal**



**Work 24 Hours**



**SAAS system  
Data analysis & management**

## Easy to install and grasp

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1. Log-in
2. Input Information
3. RTK Settings
4. Vehicles Parameters Measurement
5. Calibration of Antenna
6. Calibration of Angle Sensor
7. Calibration of Implements

# Good quality - 2.5cm precision

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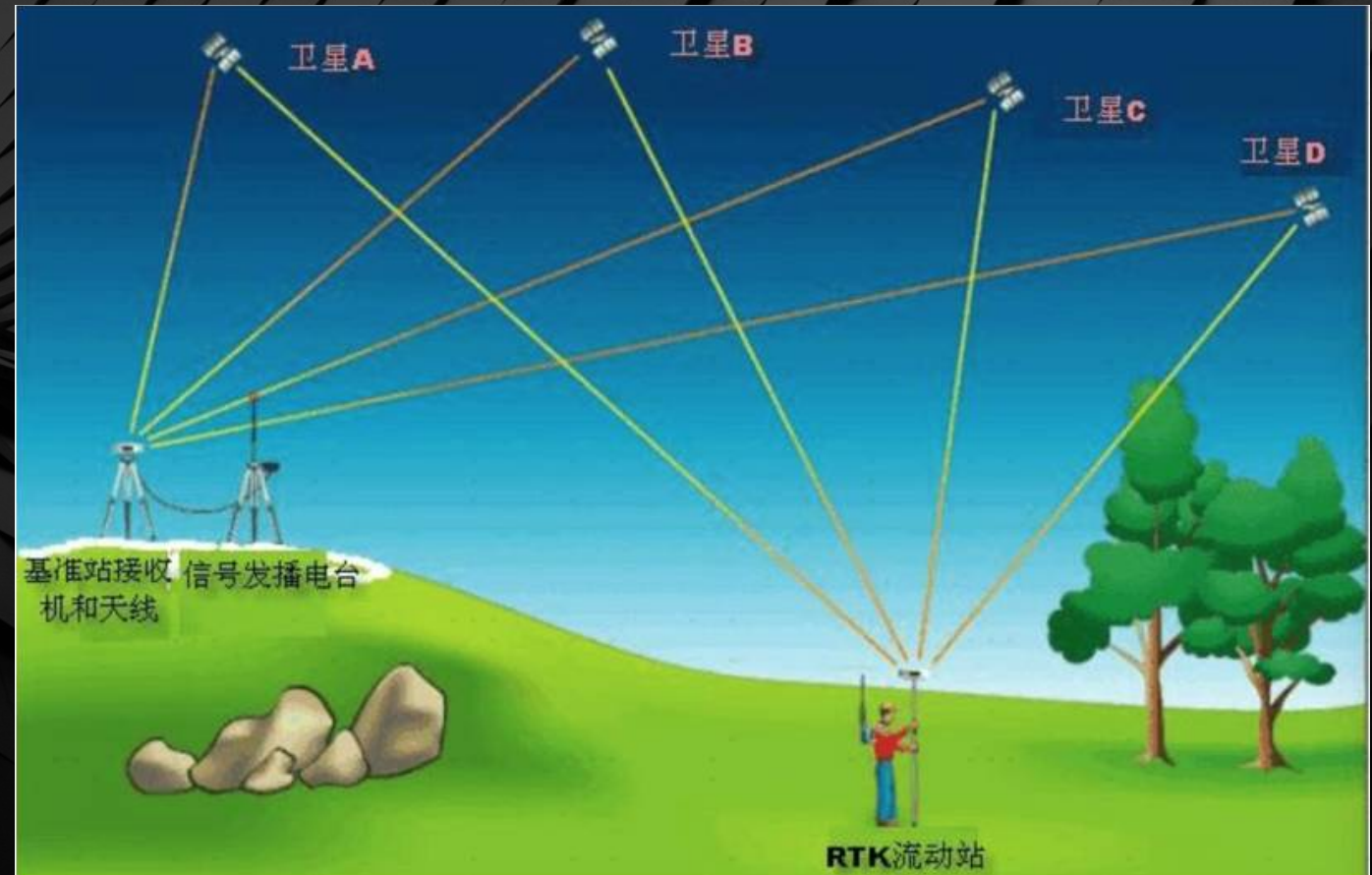
## RTK – Real Time Kinematic

Correct for common errors in current satellite navigation (GNSS) systems by introducing a fixed base station, that wirelessly sends out correctional data to a moving receiver.

### Base Station



### 4G Ntrip Service



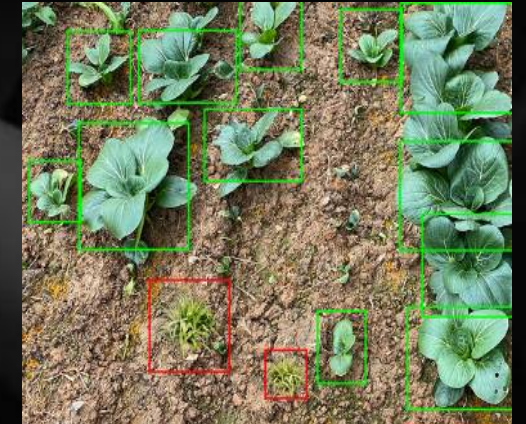
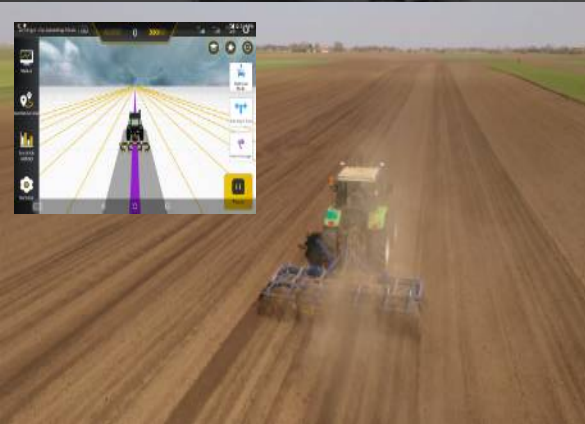
# Good quality - 2.5cm precision

## Guidance line

After the guidance line is introduced, it can perform high-precision automatic navigation operations within 2.5cm accuracy. It is suitable for straight and curved operation modes with an average speed of 18km/h.

## AI Camera (in progress)

Accurately distinguish crops, weeds and obstacles, achieve accurate pesticide spraying and intelligent obstacle avoidance.



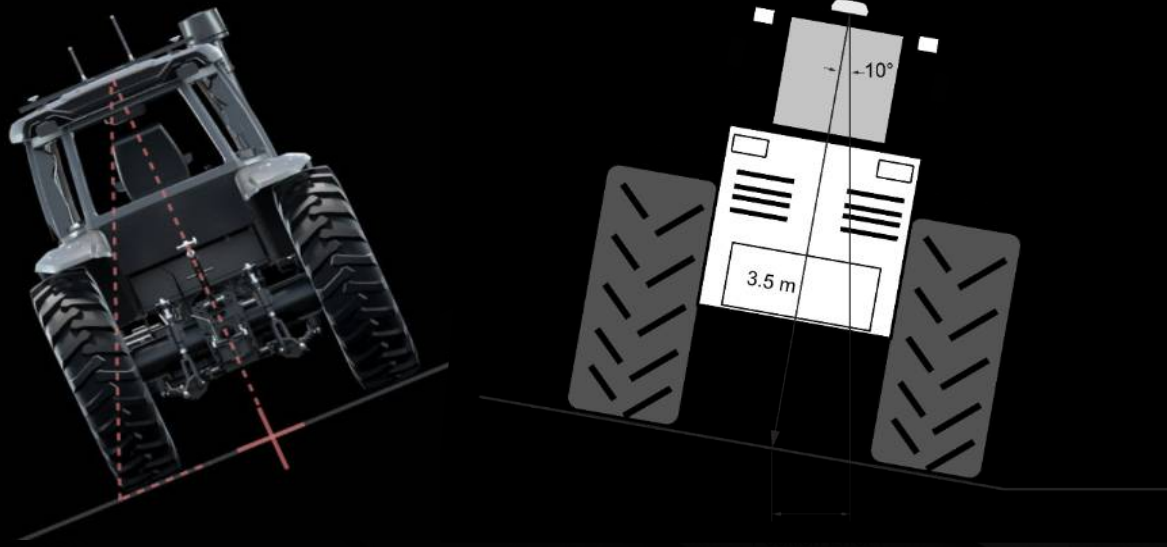
# Parts



# Go straight on slope field

## Terrain Compensation

Accurately calculating the real-time position of agricultural machinery through IMU sensors can effectively reduce repeated farming and missed farming under special operating environments such as undulating terrain, slopes and rugged ground.





# Continue to work 20min when lost RTK signal

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## 20min work without RTK signal

In some areas, the RTK signal is temporarily blocked and the autosteering kit would get disconnected from the base station for a short time, automatic driving can still continue for 20 minutes

# Work 24 Hours

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## 1. FAE Support

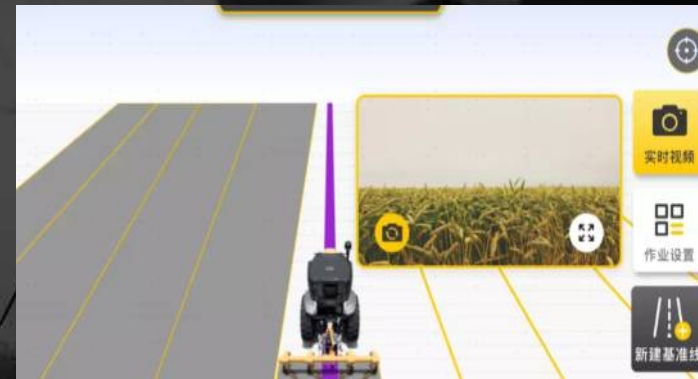
Our FAE team is very professional and dedicated, and will work late in order to provide timely online service in our DingTalk groups.



After sales support

## 2. WIFI Camera

Split-screen viewing of the real and virtual images of the job, providing a complete perspective so that users can take both into account.





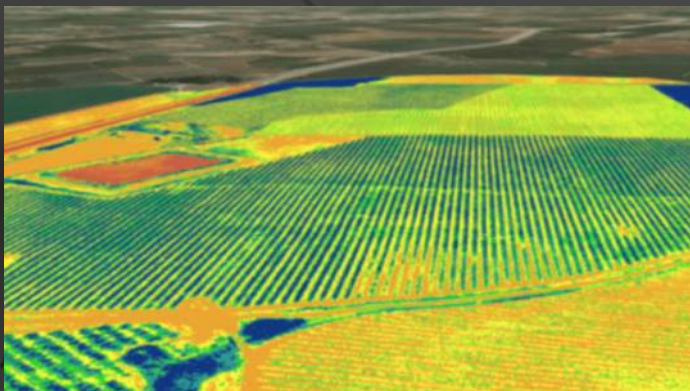
## Coming soon

1. Field, Account & Implement Management
2. Linked to SAAS (software as a service)
  1. Data analyzing and sharing
  2. Prescription generation
  3. Future planning
  4. .....

# Other Functions

## 1. GIS

Graphic files such as guidance lines can be imported and exported for the use on other auto steering devices. You can also export the task map to a data management system to assist in future task planning.



## 2. NMEA

The positioning information can be transmitted to other machinery and implements to achieve dynamic accuracy calibration during operation.



## 3. ISOBUS

Based on the ISO11783 protocol, it simulates a virtual instrument panel that provide real-time viewing and controlling of implements.



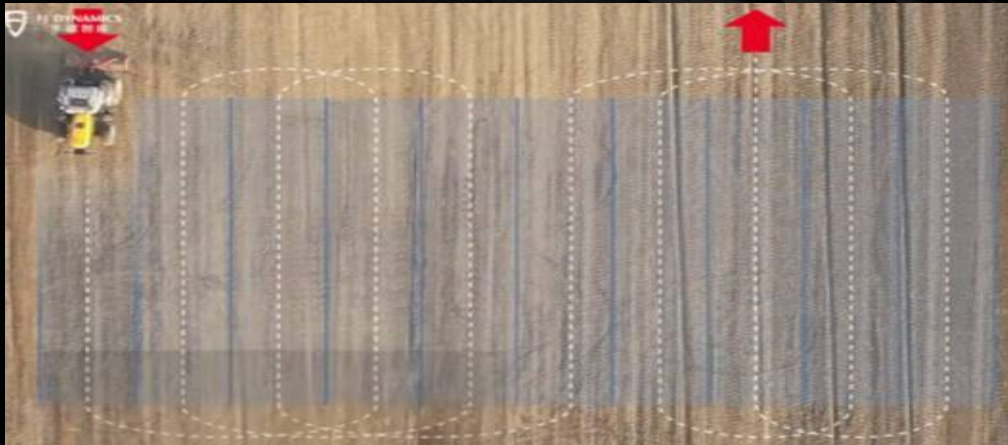
# Other Functions

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## Uturn - Coming soon

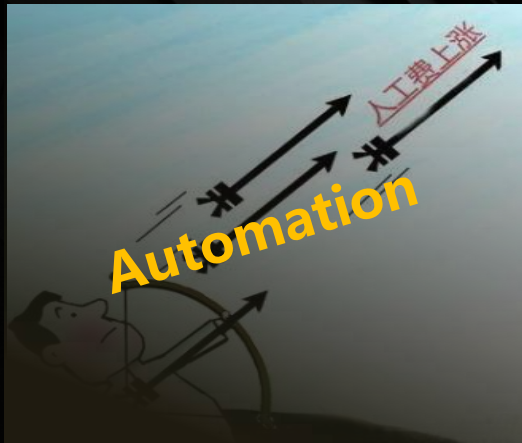
Also called Auto-dturn, including path planning and automatic U-turn.

There is no need to touch the steering wheel during the whole process, reducing nearly half of the field space required for turning around, so it is easier and more efficient.



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# Cases



赞比亚 - Landini



保加利亚 - KUBOTA



法国 - John Deere



土耳其 - KUBOTA



立陶宛 - CLAAS



日本 - KUBOTA



英国 - Fendt



土耳其 - John Deere



意大利 - Landini



塞尔维亚 - CLAAS



捷克

A large agricultural harrow is shown in a field, moving away from the viewer. The harrow has multiple rows of tines and is equipped with various implements. The field is dark and appears to be recently tilled. In the background, there are rolling hills or mountains under a clear sky. The overall scene is dimly lit, suggesting either dawn or dusk.

***EJ DYNAMICS***  
**Questions?**