



FARMSTAR-F3

Auto-Steering System



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FARMSTAR-F3 is an advanced auto-steering designed for modern precision agriculture. It combines high-accuracy steering, full ISOBUS implement management, and intelligent farm software (HiFarm & Hi-FMS) to deliver precise operations, lower input consumption, higher productivity, and a simpler, more efficient daily workflow.



0.1-30 km/h
without angle sensor



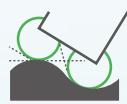
Hi-RTP PPP



ISOBUS



±2.5 cm
Pass-to-pass accuracy



Slope
compensation



Multiple
guidance line



OTA update



Automatic
U-turn across rows



One System. Total Field Control

- Keep every pass straight and accurate with ±2.5 cm precision.
- Integrated auto-steering, ISOBUS implement control, and farm management.
- Switch between tractors and operators quickly and easily.

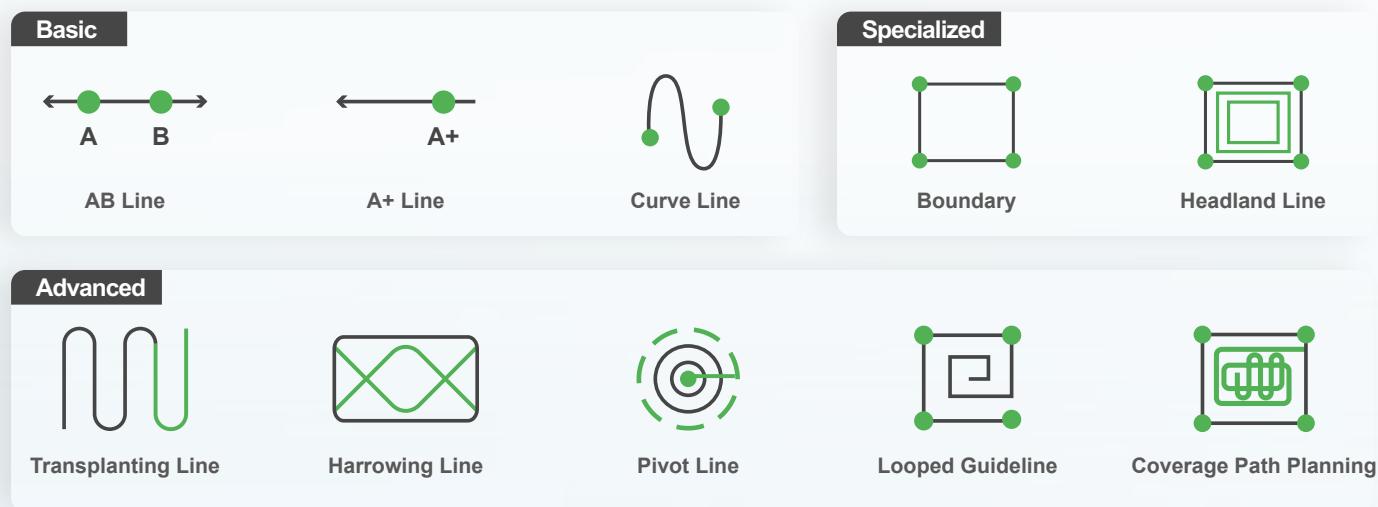
Designed for Real Farming Conditions

- Stable performance from 0.1–30 km/h, even without a front angle sensor.
- Stay on track on slopes, uneven ground, and irregular fields.
- Fast line capture and smooth steering reduce fatigue for long working days.

Multiple Guidance Line – Precision in Every Pass



FARMSTAR-F3 supports multiple guidance line types—including AB, A+, curved, grid, and transplanting lines—to suit different crops and field conditions. Lines can be created from field boundaries or imported data for fast setup and consistent accuracy. With smooth automatic steering, every pass stays straight and evenly spaced, improving efficiency even in irregular fields.



Hi-FMS – Cloud-Based Farm Management



Hi-FMS connects FARMSTAR-F3 to the cloud, transforming machine data into actionable insights.



What Hi-FMS Delivers

Online & offline data synchronization

Field, boundary, and workline sharing between multiple tractors

Task records and operation history

Centralized farm and fleet management

HiFarm Software – Simple, Powerful, Operator-Friendly



HiFarm is the integrated in-cab operation software of the FARMSTAR-F3 Auto-Steering System, designed to simplify guidance setup, improve operational accuracy, and enhance ISOBUS-based implement control.



Key Features

- Real-time display of fields, boundaries, and task progress
- Camera view integration and remote support capability
- ISOBUS TC-SC, TC-GEO, auto implement parameter sync

ISOBUS Functions – Control Implement with Confidence



FARMSTAR-F3 is fully ISOBUS-compatible, with HiFarm supporting ISOBUS UT, TC-SC, and TC-GEO, including prescription maps and automatic parameter synchronization. Connect once, control all ISOBUS implements from a single terminal, and let every operation run accurately, efficiently, and in perfect harmony.

TC-BAS

AUX-N

TC-SC

TC-GEO

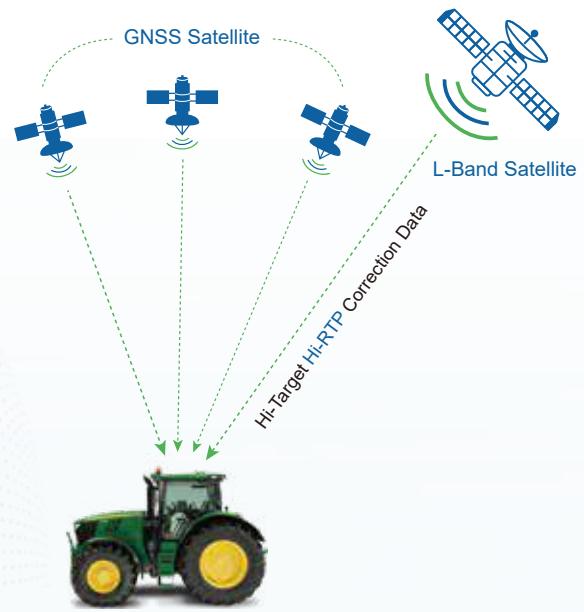
UT



Accuracy Everywhere – Even without Network Coverage

Hi-RTP PPP Correction Service

- Satellite-based L-band correction, no mobile network required
- Wide coverage across Asia-Pacific and most of Europe
- Fast convergence time for rapid high-accuracy positioning
- Supports free Beidou PPP-B2b and Galileo PPP-HAS



Optional Choice – Optimized Screen Sizes for Every Task

Control Tablet

Choose between a 10.1-inch portable design for cab flexibility or a 12-inch expansive display for enhanced map visibility and touch accuracy during complex operations.



10.1-inch

 Compact & Portable

 Sunlight-Readable



12-inch

 Enhanced Map Visibility

 High-Sensitivity Touchscreen

Button Panel



Specifications

Receiver

Size	170 mm x 170 mm x 60.5 mm
Weight	1280 g
Channels	1408/1760
Satellite Bands	BDS: B1I, B2I, B3I, B2a, B2b GPS: L1C/A, L2P(Y), L2C, L5 Galileo: E1, E5a, E5b, E6 (Optional) GLONASS: L1, L2, L3 (Optional) L-Band (Optional)
RTK Accuracy	Horizontal: 8 mm + 1 ppm RMS Vertical: 15 mm + 1 ppm RMS
Max Location Data Update	20Hz
Pass-To-Pass Accuracy	±2.5 cm
WiFi	IEEE 802.11 b/g/n
Network Communication	TDD-LTE, FDD-LTE, WCDMA, TD-SCDMA, EDGE, GPRS, GSM
Data I/O Protocol	J1939
Radio Module	410 MHz - 470 MHz
Power input	9~30V DC
Reverse Power Protection	Support
Over Voltage Protection	Support
CAN Ports	2
Radio	TNC *1
GNSS	TNC *1
Connector	12 PIN

Operating Temperature	-20°C to +70°C
Storage Temperature	-40°C to +85°C
Humidity	93% RH (Non-condensing)
IP Rating	IP67

Tablet

Size	P200: 281 mm x 181 mm x 42 mm P300: 318 mm x 220 mm x 35 mm
Basic Configuration	P200: 10.1-inch touch screen P300: 12-inch touch screen
ROM	16GB
IP Rating	P200: IP65 P300: IP67
System	Android 11.0
CPU	Quad-Core, 1.2 GHz

Steering Wheel and Motor

Size	420 mm x 420 mm x 112 mm
Weight	4.9 kg
Torque	7 N.m (Rated) 13 N.m (Peak)
Wheel Diameter	420 mm
Motor Height	76 mm

Note:

[1] The measurement accuracy, precision, reliability and initialization time depend on various factors, including tilt angle, number of satellites, geometric distribution, observation time, atmospheric conditions and multi-path validation, etc. The data are derived under normal conditions.

[2] Achievable under normal navigation signal conditions, with the tractor operating normally and the ground relatively level.



AUTHORIZED DISTRIBUTION PARTNER

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