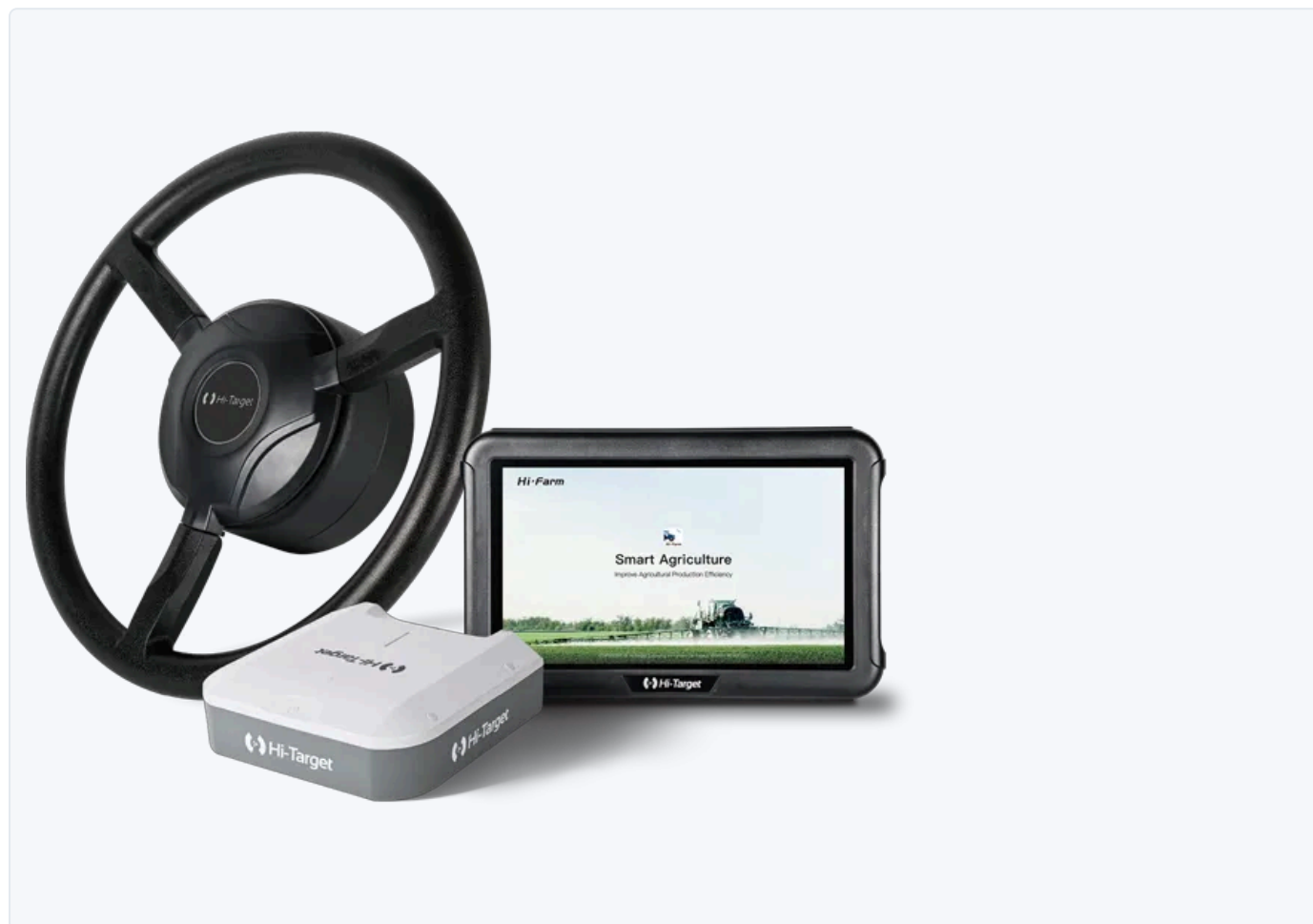


PRECISION AGRICULTURE

FARMSTAR-F3

Automatic steering system



Hi-Target agricultural auto-steering system with ± 2.5 cm pass-to-pass accuracy and a speed range of 0.1–30 km/h without an angle sensor.

± 2.5 cm pass-to-pass accuracy

ISOBUS implement control

Slope compensation

Data sharing between tractors

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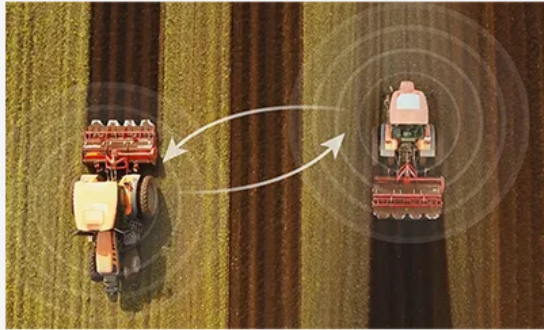
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PRODUCT OVERVIEW

FARMSTAR-F3



Cloud-based Farm Management

Precision agriculture

FARMSTAR-F3 integrates navigation, real-time monitoring, slope compensation, Hi-RTP PPP positioning and ISOBUS compatibility to reduce overlaps and gaps.

Intended users

- Farms performing precision agricultural operations
- Tractor operators using ISOBUS implements
- Fleets sharing fields and guidance lines
- Operations on sloping or uneven terrain
- Tasks requiring straight or curved paths
- Areas without mobile coverage where satellite corrections are available

01

GNSS automatic steering

Motorized steering wheel, fast line capture and automatic U-turns. Operation is also supported without a front angle sensor.

02

Multiple guidance lines

AB, A+, curved, grid, boundary and headland lines. Dedicated paths for transplanting, harrowing, pivot operations and field coverage.

03

ISOBUS implement management

HiFarm supports UT, TC-SC and TC-GEO, prescription maps and automatic parameter synchronization. The document also lists TC-BAS and AUX-N.

04

Management software

HiFarm displays fields, boundaries and task progress. Hi-FMS shares lines and data between tractors and retains operation history.

FARMSTAR-F3

— · 2/8

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OPERATIONAL BENEFITS

FARMSTAR-F3

01

Consistent field passes

The stated ± 2.5 cm pass-to-pass accuracy supports regular paths and consistent spacing under the conditions specified by the manufacturer.

02

Reduced operator fatigue

Automatic steering and U-turns assist the operator during extended field operations, reducing manual steering corrections.

03

Terrain adaptation

Slope compensation supports path tracking on sloping and uneven ground.

04

Centralized implement control

A single terminal manages guidance and compatible ISOBUS implement functions, including sections and prescription maps.

05

Network-independent corrections

Hi-RTP PPP receives L-band satellite corrections without a mobile network, within covered areas and with the required configuration.

06

Data continuity

Hi-FMS supports field, boundary and line sharing between tractors, online and offline synchronization, and operation history recording.



Pass-to-pass accuracy



0.1-30 km/h without angle sensor



Hi-RTP PPP



ISOBUS



Slope compensation



Multiple guidance line



OTA update



Automatic U-turn across rows

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— · 3/8

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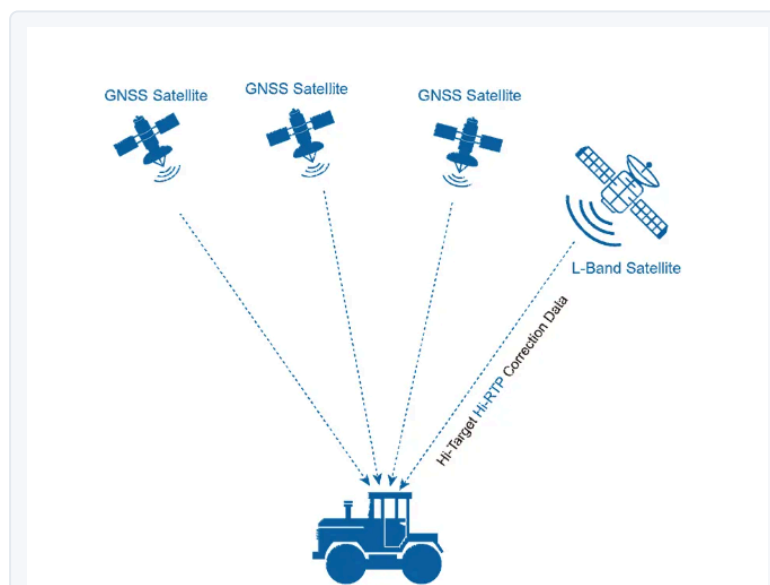
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RECOMMENDED USE / METHOD SELECTION

Precision agriculture

The system uses GNSS positioning and motorized steering. The table summarizes guidance modes; depth is not applicable and individual mode speeds are not specified.

GUIDANCE MODE	OPERATING PRINCIPLE	OPERATING DEPTH	MODE-SPECIFIC SPEED	APPLICATION NOTES
AB and A+ lines	Automatic steering along straight AB or A+ references.	—	—	For straight, parallel passes.
Curved lines	Automatic steering along a curved guidance line.	—	—	For non-straight field geometries.
Boundaries and headlands	Lines generated from boundaries or imported data.	—	—	Supports boundary and headland paths.
Advanced paths	Task-specific geometries and coverage path planning.	—	—	Transplanting, harrowing, pivot and looped paths.

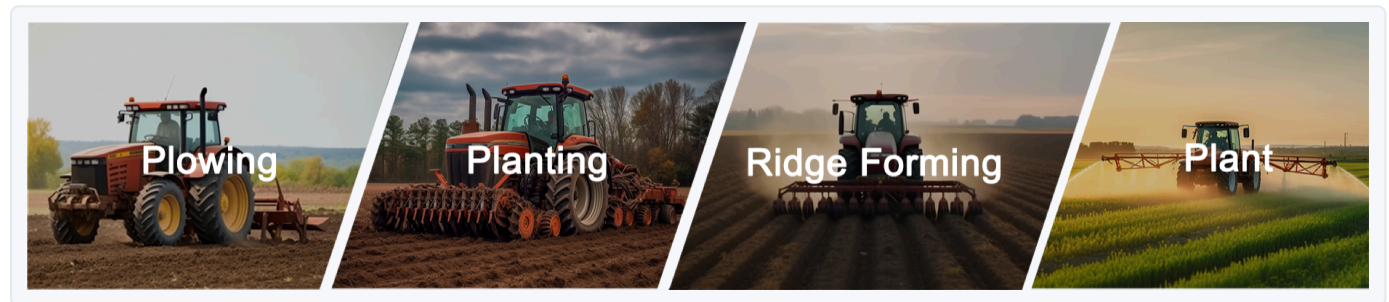


For agricultural operations requiring uniform passes and integrated implement management. Verify tractor compatibility, ISOBUS configuration, correction availability and the applicable operating speed range.

APPLICATIONS

FARMSTAR-F3

Automatic steering and task management for soil preparation, crop establishment and product application.



01

Guided plowing

Path tracking during plowing, with guidance lines selected to suit field geometry.

02

Precision planting

Regular, parallel passes for planting operations, with management of compatible ISOBUS implements.

03

Ridge forming

Guidance along predefined paths for ridge formation and alignment between passes.

04

Crop treatments

Guidance for spraying and crop treatments, with TC-SC and TC-GEO functions for compatible implements.

05

Guided transplanting

Dedicated transplanting lines to organize paths and maintain consistent passes.

06

Soil harrowing

Dedicated harrowing paths and coverage planning to organize field operations.

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— · 5/8

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TECHNICAL SPECIFICATIONS

FARMSTAR-F3

STEERING AND ACCURACY

Pass-to-pass accuracy	±2.5 cm
Speed range	0.1–30 km/h
Angle sensor	Not required
Slope compensation	Available
Guidance lines	Multiple; types: —
Automatic turning	U-turn across rows

SATELLITE POSITIONING

Technology	Hi-RTP PPP
Signal reception	Direct L-Band signals
PPP accuracy	Centimeter-level; numerical value: —
Offline operation	Stated for Hi-RTP PPP
Stated coverage	Asia-Pacific and Europe

INTERFACE AND INTEGRATION

Tablet size	12 inches
Physical controls	Large tactile buttons, usable with gloves
Button functions	Examples: auto-steer engagement, AB line setup
ISOBUS compatibility	All ISOBUS-certified implements, according to the page
Updates	OTA
Cloud management	Cross-device synchronization and real-time monitoring

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— · 6/8

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STANDARD DELIVERY & OPTIONAL ACCESSORIES

FARMSTAR-F3

STANDARD DELIVERY

GNSS unit

GNSS receiver and antenna described in the system documentation.
Inclusion in the supplied package: —.

Motorized steering wheel

Steering wheel and motor assembly for automatic steering control.
Inclusion in the supplied package: —.

Control tablet

P200 10.1-inch or P300 12-inch terminal. Model included in the supplied package: —.

HiFarm software

Integrated operating software for guidance and implement management. Licensing terms and functions included in the supplied package: —.

OPTIONAL ACCESSORIES

Button panel

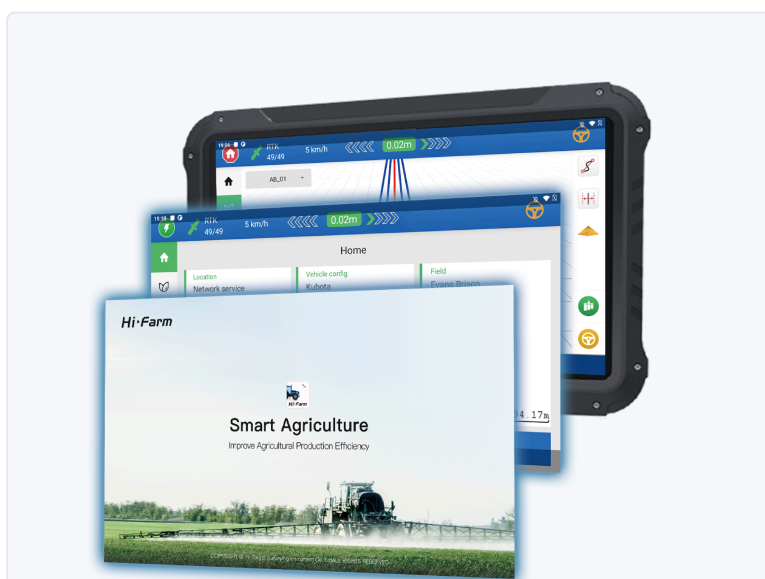
Controls for steering ON/OFF, line alignment, A/B points and left or right U-turns, with guidance indicator.
Inclusion: —.

Tablet selection

P200 10.1-inch or P300 12-inch display, available as alternative control terminal configurations.

Satellite options

L-band, Galileo E6 and GLONASS L1/L2/L3 are listed as optional.
Availability in the supplied configuration: —.



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— · 7/8

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MORE THAN AN INSTRUMENT

Novatest services

Software functions and services documented by the manufacturer. Commercial terms, activation requirements and inclusion in the supplied package: —.

01

Hi-RTP PPP corrections

L-band corrections without mobile coverage, with stated coverage across Asia-Pacific and most of Europe. Free BeiDou PPP-B2b and Galileo PPP-HAS are also supported.

02

Hi-FMS cloud management

Centralized farm and fleet management, field and line sharing, online and offline synchronization, and task history.

03

OTA updates

The system supports OTA updates. Release frequency and service terms: —.

04

Remote support

HiFarm supports remote assistance and camera view integration. Support arrangements and included video hardware: —.



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— · 8/8

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