

FARMSTAR-F3 Auto-Steering System

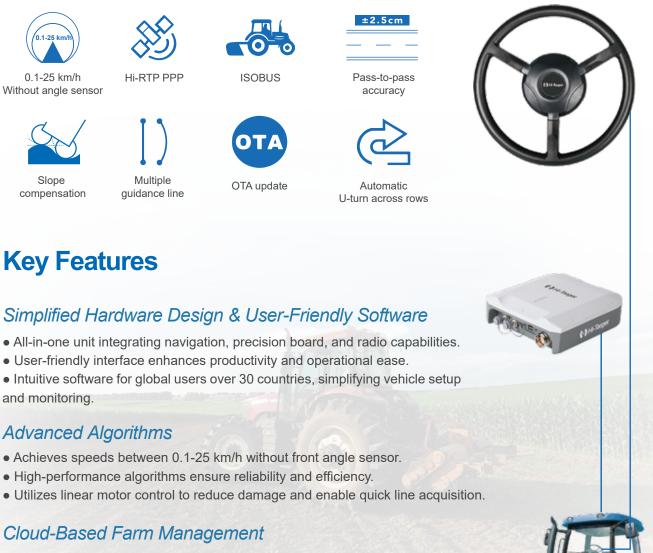
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With over 25 years of expertise in GNSS technology and a commitment to autonomous driving advancements, Hi-Target has made substantial advancements in its precision agriculture systems over the past decade.

The FARMSTAR-F3 auto-steering system represents Hi-Target's latest breakthrough, offering an impressive pass-to-pass accuracy of ±2.5 cm. This advanced technology optimizes crop spacing, enhancing the plants' ability to absorb nutrients and sunlight, thereby maximizing yield potential. The system is equipped with ISOBUS compatibility, allowing for seamless integration with modern agricultural machinery. This integration streamlines operations, reduces setup time, and minimizes operator errors, ensuring reliable and consistent performance throughout the entire farming season.





- Facilitates online and offline data sharing for improved farm management.
- Enhances productivity and resource utilization with real-time connectivity.
- Provides insights on farms, plots, boundaries, and tasks.

Smart HiFarm Software

- Alexander

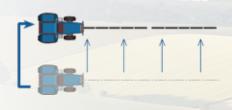
HiFarm combines auto-drive, farm management, logs, camera views, and remote control in an intuitive design for streamlined farming efficiency.





Filed & Workline Share

Easily share farm infomation and workline data between tractors on the same field to reduce manual input errors and ensure accurate operations.



Fast Workline Nudge

Allow quick path adjustments and maintain operational efficiency by reducing time lost to stopping and reprogramming.



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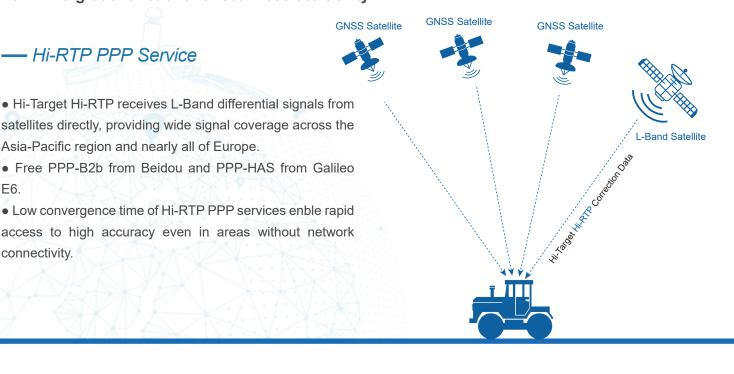
Automatic U-turn

Allow to do skip rows U-turns to accommodate the normal operation of tractors with different turning radius.

Slope Compensation

Processed slope data in real-time to remain accurate on hilly or sloped terrain, reducing the risk of overlapping or missing field sections.





ISOBUS Compatibility

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· Seamlessly adapts to various ISOBUS agricultural implements, significantly boosting economic efficiency throughout the entire agricultural process.

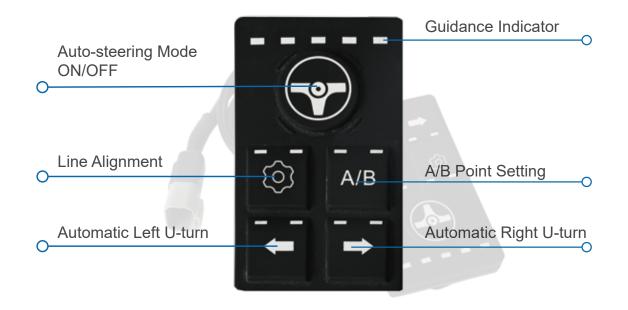








Button Panel



· Optimized Screen Sizes for Every Task

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.





Applications



Specifications

System GNSS Accuracy Index		Receiver GNSS Signal	
RTK Accuracy	Horizontal: 8 mm + 1 ppm RMS Vertical: 15 mm + 1 ppm RMS	Channels	1408
Max Location Data Update	20 Hz	Satellite Bands	BDS: B1I, B2I, B3I GPS: L1C/A, L2P(Y), L2C, L5 Galileo: E1, E5a, E5b, E6 GLONASS: L1, L2 QZSS: L1C/A, L2C, L5 SBAS: L1C/A L-Band
Code Differential GNSS Positioning	Horizontal: 0.25 m + 1 ppm RMS Vertical: +0.5 m+1 ppm RMS SBAS: 0.5 m (H), 0.85 m (V)		
Velocity Accuracy	Horizontal: 0.007 m/s RMS Vertical: 0.020 m/s RMS	External Interface	
Performance		Radio	TNC*1 ①
Pass-To-Pass Accuracy	±2.5 cm	GNSS	TNC*1 ②
Communication Interface		Connector	12-pin
CAN Ports	2	Environment Parameter	
WiFi	IEEE 802.11 b/g/n	Operating Temperature	-20°C to +70°C
Network Communication	4G network: TDD-LTE, FDD-LTE, WCDMA, TD-SCDMA, EDGE, GPRS, GSM	Storage Temperature	-40°C to +85°C
		Humidity	93% RH (Non-condensing)
		Water and Dust Resistance	IP67
Data I/O Protocol	J1939	Physical	
Radio Module	Receive only Band: 410 MHz - 470 MHz	Size	170 mm × 170 mm × 60.5 mm
Power Indicator		Weight	1280 g
Power input	9~30V DC	Tablet	
Reverse Power Protection	Support	Display	10.1-inch touch screen
Over Voltage Protection	Support	Dimensions (W \times H \times D)	281 mm x 181 mm x 42 mm
5		RAM	2 GB
Motor		ROM	16 GB
Torque	7 N.m	Water and Dust Resistance	IP65
Wheel Diameter	420 mm	System	Android 11.0
Motor Height	76 mm	CPU	Quad-Core, 1.2 GHz



AUTHORIZED DISTRIBUTION PARTNER

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