

Verditex launches FMA series auto-steering system, pioneering a new era in smart agriculture



Singapore, Singapore Jun 12, 2025 ([Issuewire.com](https://www.issuewire.com)) - Verditex, a provider of advanced smart agricultural solutions, is excited to introduce the FMA300 series auto-steering system, designed to enhance precision, efficiency, and productivity in modern farming. Verditex is committed to advancing the precision agriculture industry by providing innovative solutions tailored to the needs of both developing and developed regions. The FMA300 is engineered to take control of the steering wheel during field operations, significantly reducing driver fatigue and enhancing efficiency.

The FMA300 integrates the Verditex AP100G controller, an industrial-grade H20 display and control pad, and a large-diameter TMS3 electric steering wheel. Combining advanced technologies such as high-precision GNSS positioning, satellite and IMU navigation, 4G communication, automatic control, and intelligent IoT platforms, it delivers outstanding performance and reliability in precision agriculture. With high-precision Real Time Kinetic (RTK) and Precise Point Positioning (PPP) algorithms, it delivers centimeter-level positioning accuracy, ensuring precise auto-steering and optimized operation of agricultural machinery.

The FMA300 auto steering system supports a wide range of agricultural vehicles and applications, including wheeled, articulated, and tracked tractors equipped with various implements for tasks such as ploughing, harrowing, seeding, transplanting, drilling, fertilization, and weeding. It also supports self-propelled sprayers for efficient crop management, including fertilization and weeding, as well as harvesters and combines for corn and wheat harvesting. Additionally, it is compatible with transplanters used for rice transplanting, providing comprehensive precision farming solutions.

“The FMA300 series auto-steering system revolutionizes agricultural efficiency, bringing precision, automation, and intelligence to every stage of farming,” commented Andy An, General Manager, Verditex. “Implementing this system will enable farmers to enhance efficiency, reduce resource waste, and optimize every stage of farming operations.”

Acting as the nerve center of the auto-steering system, the Verditex AP100G controller is equipped with smart modules and high-precision sensors. Combining advanced navigation technologies, path-planning, and control algorithms, it can guarantee accuracy and reliability throughout the operation process. A smart agriculture IoT platform is responsible for the real-time monitoring and management of agricultural machinery equipment and operations, providing a scientific basis for decision-making in agricultural production. The FBS100 base station system from Verditex ensures high-precision navigation and operational quality for agricultural machinery auto-steering systems. Even without network access, it delivers high-quality differential correction services via radio transmission, maintaining accuracy and reliability in the field.

The high-precision FMA300 series auto-steering system integrates with a wide range of wheeled agricultural machinery, allowing automated operation along preset paths. With its high-precision positioning capabilities, the system can efficiently plan planting spacing. During ploughing, fertilizing, and pesticide spraying, it ensures complete coverage without gaps or overlaps, significantly reducing resource waste. Additionally, the auto-steering system supports multiple operation modes, including one-click and automatic U-turn functionality, enabling drivers to quickly and flexibly adjust their operation plans based on terrain and farmland size. This allows for comprehensive planning and maximizes time and labor efficiency.

About VERDITEX

Verditex is a cutting-edge technology brand dedicated to smart agriculture, focusing on IoT solutions, automation, and high-precision positioning technology. We empower the agricultural industry with advanced IoT solutions and automation technologies to enhance productivity, sustainability, and precision. Our vision is to lead the future of agriculture by providing smart solutions that revolutionize farming and earth conservation practices globally.

For more information, please visit: www.verditex.com and [LinkedIn](#)

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