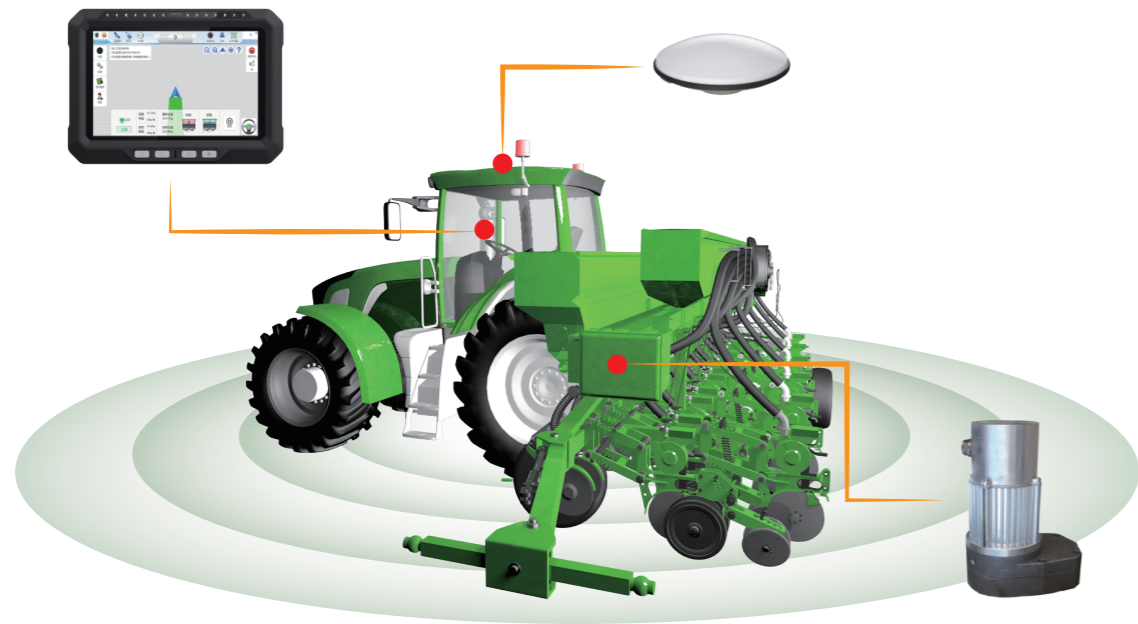


PRODUCT COMPONENTS



T101 Intelligent Line Control Terminal

An intelligent display terminal for the operation interface of the Precision Seeding and Fertilization Control System. It is used to set the number of motors, functions, seeding calibration, seeding quantity, seeding rows, etc. The equipment's operational status can be observed through the software interface.

Positioning Antenna

High-precision positioning module, supporting multiple stars and frequencies of BeiDou/GPS/GLONASS/Galileo/QZSS. High accuracy, fast satellite acquisition, and accurate speed information.

Drive Motor

The drive motor is the terminal execution unit of the seed and fertilizer control system, controlled and observed through the main operation screen.

Professional Electronic Control System:

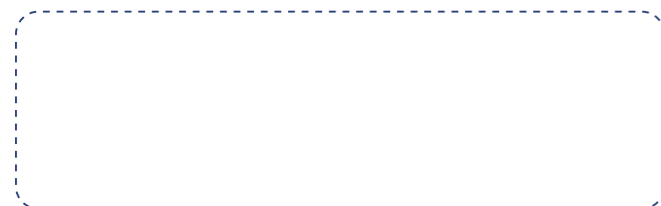
Utilizes CAN-232 bus communication, high speed, large torque (50N.M), low power consumption. Currently, the current consumption of the 3m seeding machine is around 4-5A, actively adjusting current under different conditions.

High-Precision Speed Control, High-Resistance Motor:

Brushless DC motor, long lifespan, high precision in motor speed control (0.19pm), high waterproof rating (IP67), maximum working temperature of 95 C, suitable for continuous operation for 24 hours.

Precision Seeding and Fertilization Control System Controller

Data conversion and transmission intermediate



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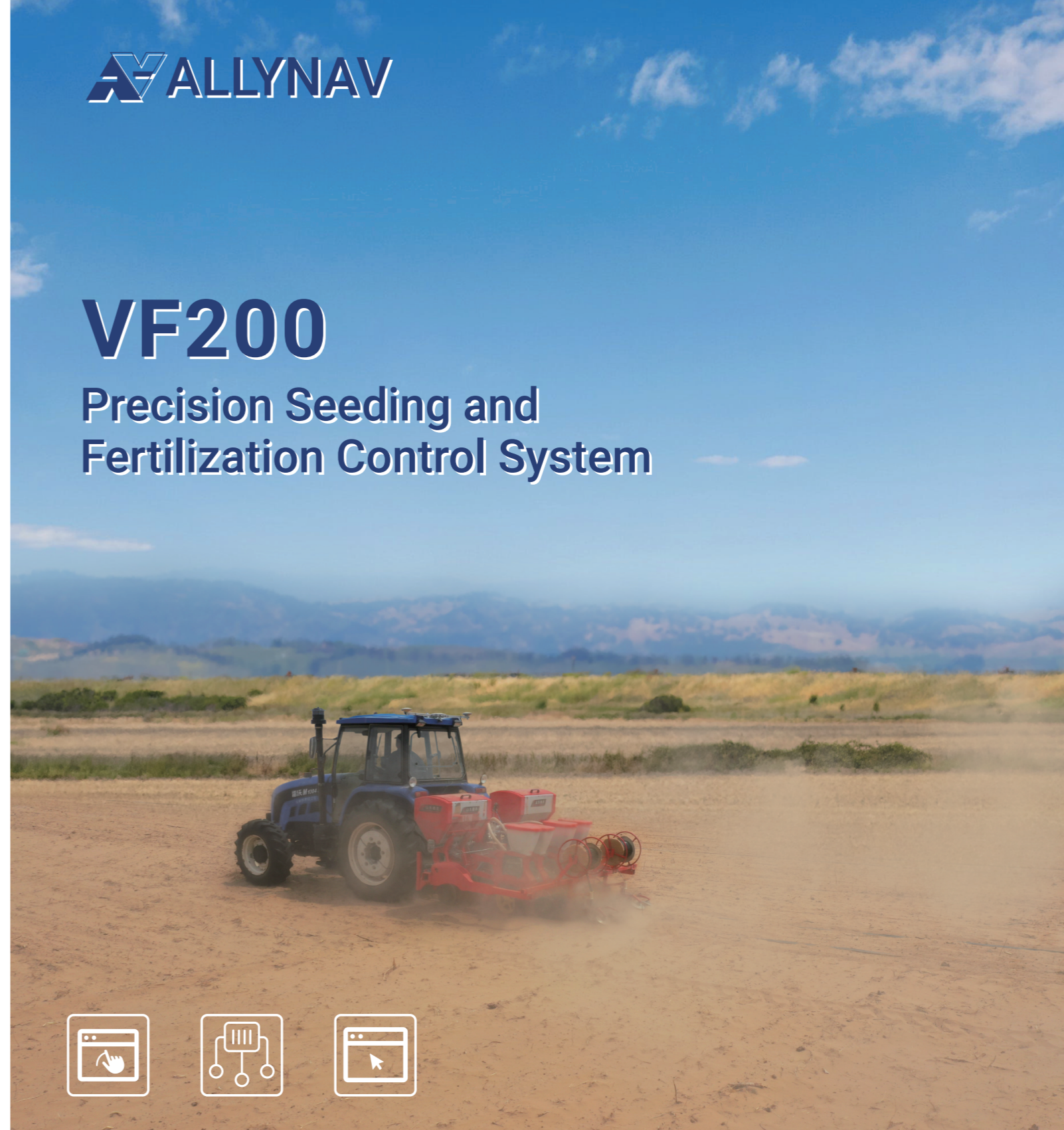


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VF200

Precision Seeding and Fertilization Control System



THE PRECISION SEEDING AND FERTILIZATION CONTROL SYSTEM IS PART OF DIGITAL AGRICULTURE AND SMART FARMING

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SMART SEEDING MANAGEMENT

User-Friendly Interface



An intuitive and user-friendly interface enables farmers to easily understand and use the system. It allows for monitoring the system's operation status, viewing key data, and making necessary adjustments, enhancing operability and overall management efficiency.

Rich Expandability



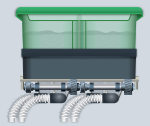
The Precision Seeding and Fertilization Control System can expand its functionality and platform, offering a multi-functional screen (precision seeding + precise fertilization + automatic driving + expanded functions + expanded platform). This means that you only need one screen to simultaneously achieve the functions of multiple systems, ensuring high work efficiency and saving costs compared to purchasing multiple systems. Expanding seed and fertilizer monitoring achieves seed control + seed monitoring + synchronized automatic driving, expanding multiple-row single-control functions to achieve single-control functionalities.

Linkage with Smart Informationization Platform



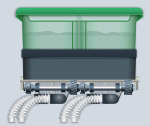
The expanded platform supports platform information statistics, APP linkage, and job records. The APP linkage feature is suitable for agricultural machinery cooperatives and agricultural service organizations.

SEEDING QUANTITY PER MU/PLANT SPACING, TWO MODES CAN BE QUICKLY SWITCHED



KG

Seeding Quantity Mode: Set the amount to be seeded per mu.



CM

Plant Spacing Mode: Seed based on plant spacing. Switch between Mu Seeding

Quantity/Plant Spacing modes without adjusting mechanical structures, with millimeter-level precision.

LEADING TECHNOLOGY ADVANTAGES IN SMART SEEDING AND FERTILIZATION

Precision and Intelligence

Precise control with seeding and fertilization accuracy reaching 95% and an error of $\pm 3.8\%$. Plant spacing operation accuracy can reach 0-5cm with an error of $\pm 2.5\text{cm}$. Real-time monitoring of remaining seed and fertilizer quantities with an accuracy of 95%. Allynav's navigation system obtains precise coordinates and speed information, enabling precise automatic control of seeding and fertilization at different speeds, ensuring high accuracy and fast satellite acquisition (speed measurement accuracy error of 0.02m/s). The exclusive speed filtering algorithm is not affected by terrain (slopes, uneven terrain, muddy ground), ensuring uniform operation.

Efficient, Intelligent, and Flexible Operations

High operational efficiency with speeds ranging from 0 to 20 km/h, fully adaptable to commonly used speed ranges (0-10 km/h). Seed quantity remains consistently high-precision, significantly improving operational efficiency. Adjusting seeding outlets based on different speeds ensures uniform precision fertilization, saving fertilizer and labor effectively.

Automatic Acreage Calculation with Collaborative Operation of Autonomous Driving

Real-time acreage calculation, synchronized operation of seeding, fertilizing, and autonomous driving. The software allows convenient adjustment and optimization to meet various needs, avoiding the defects of mechanical modification that may not meet requirements.

Rapid Response in Operations

Accurate algorithm with a short startup distance in the field; works at a speed of 0.4 km/h. The current startup distance is around 30cm and consistently uniform. Synchronization of motor and vehicle status shortens the startup and shutdown distance. High compatibility and wide adaptability, suitable for different scales and types of farms, providing flexible solutions. A single display terminal system is compatible with seeding and fertilization monitoring, automatic driving, unmanned driving, and auxiliary navigation functions, offering multiple adaptation schemes and compatibility with over 90% of seeding machines available on the market.

