

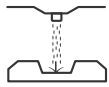


FJD APS

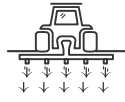
PRECISION SEEDING CONTROL KIT

CONSISTENT SEEDING. LESS WASTE. BETTER YIELD.

The FJD APS is a smart control upgrade for traditional seed drills. It utilizes electric motor drive and high-precision positioning to automatically adjust seeding rates, ensuring every acre is planted perfectly regardless of speed. By sensing implement lift and lowering, it stops seed flow instantly at headlands to eliminate over-seeding. Compatible with any ISOBUS terminal from FJD or other brands, the APS transforms your current drill into a centimeter-level precision machine, saving you both seed and time.



Constant Seeding Rate



Automatic Operation Control



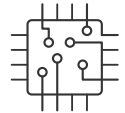
Quick Seeding Rate Adjustment



ISOBUS Compatibility



Precision Autosteering & Seeding



Advanced Control Algorithm



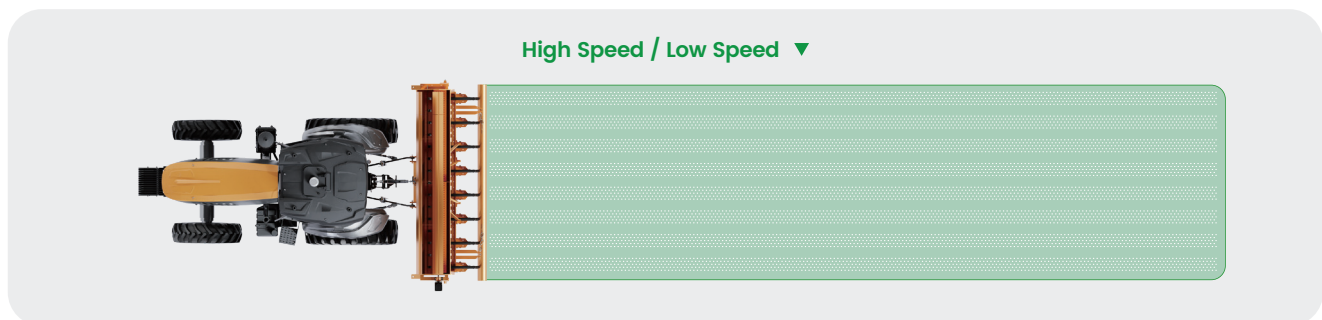
Smart Alerting Workflow



Operation Data Management

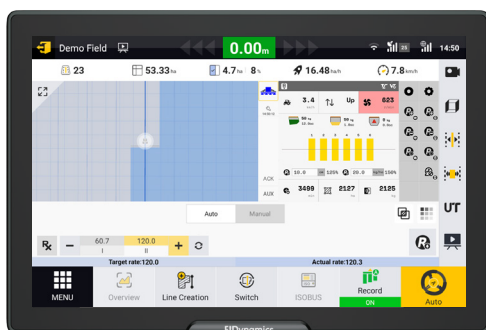
CONSTANT SEEDING RATE

Utilize direct motor drive on the seed metering shaft, completely removing errors caused by wheels slipping on wet ground or sloped terrains. By matching the motor speed with the tractor's speed, it maintains a constant seeding rate per acre, ensuring that the actual seeding rate deviation stays within $\pm 2\%$.



AUTOMATIC OPERATION CONTROL

Detect implement raising and lowering actions to precisely control seeding. It begins planting when the implement hits the ground and stops instantly when it is lifted. This precision prevents double-planting at headlands and reduces seed waste by 3–5%.



QUICK SEEDING RATE ADJUSTMENT

Adjust the seeding rate instantly on the terminal screen, eliminating the need to stop for manual gear adjustments or time-consuming calibration tests. You can set up a new field in seconds, saving up to 15 minutes with every switch. By automatically compensating for changes in ground speed, the system maintains a steady seeding rate and prevents the accidental over-application common with manual settings.



SMART AUTOSTEERING & SEEDING

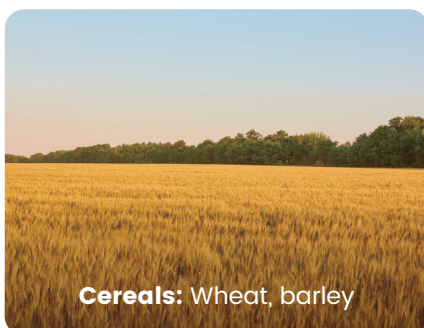
Work seamlessly with FJD autosteering systems to automate both driving and seeding with ± 2.5 cm RTK precision, ensuring perfectly straight rows with zero overlaps. It also plugs directly into ISOBUS-compatible navigation terminals from other brands, offering a cost-effective way to upgrade your existing machinery with the latest smart farming technology.



SEEDING SCENARIOS

Built for spring and autumn seeding, this system is ideal for row-crop applications. It maintains consistent seeding rates and row spacing across varying field conditions and operational speeds, promoting more uniform crop emergence and growth.

Applicable Crops



QUICK SPECS



Controller

Rated Voltage	9–36V
12 V Power Output	3A
Digital Inputs	4×high/low level inputs (active-high/active-low)
Frequency Inputs	4 × 0–10 kHz
Communication Protocol	CAN
IP Rating	IP67



Motor

Rated Input Power	200 W
Rated Output Torque	13.4 N·m
Rated Output Speed	100 r/min
IP Rating	IP65
Rated Voltage	12 VDC
Max Current	20A
Gear Ratio	30:1



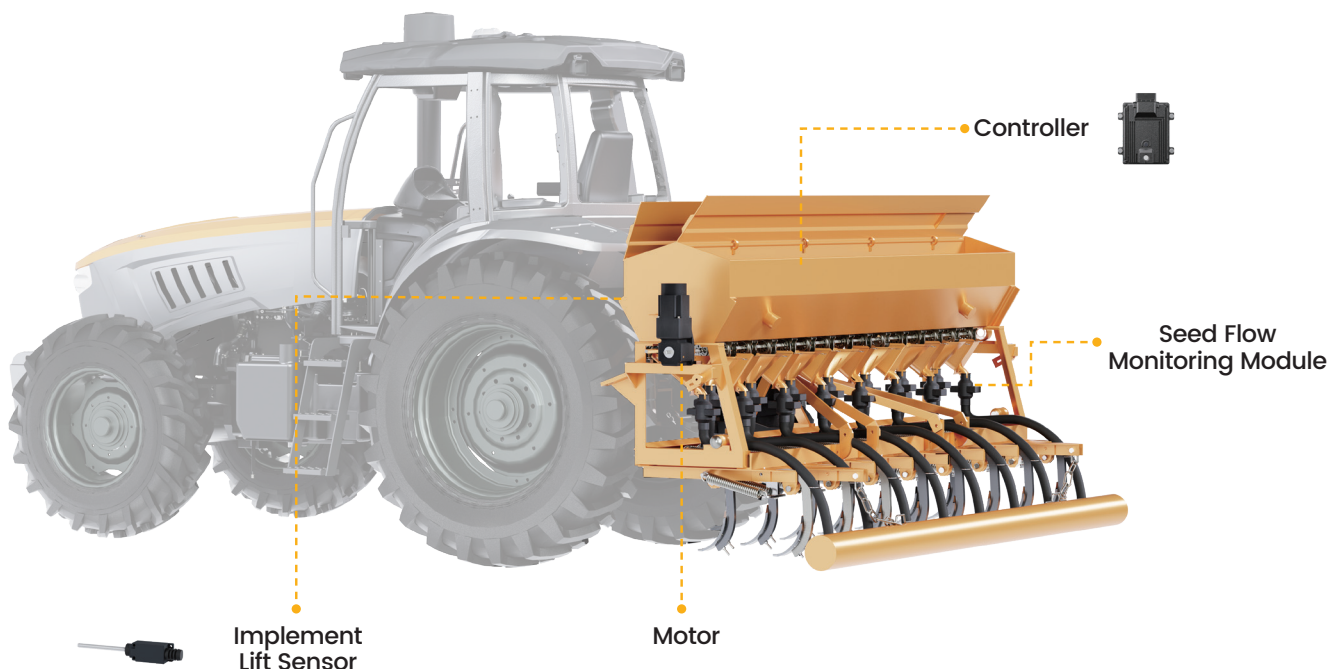
Implement
Lift Sensor

Sensor Type	Mechanical limit switch
Output Type	PNP output
Operating Voltage	5–30V DC
IP Rating	IP65



Seed Flow
Monitoring Module

Operating Voltage	9–16V DC
Operating Current	≤ 100 mA
Detection Method	Infrared optical sensing
Detection Rate	Up to 40–60 seeds/second
Response Time	< 50 ms
Seeding Tube Diameter	Ø 25–35 mm
Ingress Protection	IP67
Output Interface	Pulse signal
Operating Temperature	–20°C to 70°C



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