FJDynamics

FJD ATS

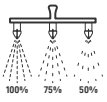
PRECISION SPRAY AUTOSTEERING SYSTEM

MAKE EVERY DROP COUNT

The FJD ATS Precision Spray Autosteering System improves the efficiency and accuracy of spraying on your farmland. With smart autosteering path planning, the system precisely maps out the optimal application route with minimum oversprays or skips. By automatically controlling sections and flow rates, the ATS gives crops precise treatment for eco-friendly pest control and better yields, helping you achieve your spraying goals cost-effectively and confidently.

Consistent Rate Application

Automated Section Control



Individual Nozzle Control

Variable-Rate Application

Extensive ISOBUS Compatibility

Sprayed Area Record

Seamless Spray Mode Switch

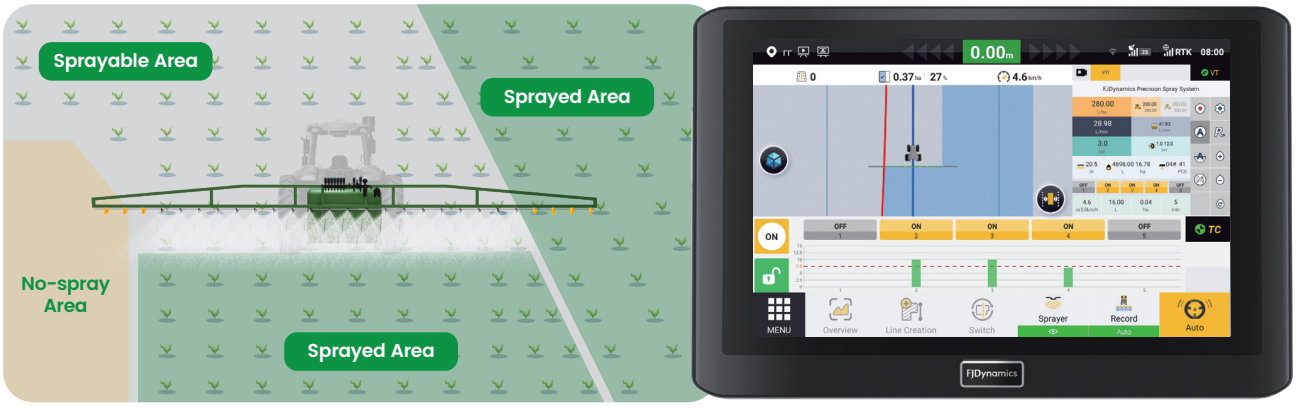
Autosteering-Driven Precision Spraying

CONSISTENT RATE APPLICATION

Regulate the flow rate in real time based on vehicle speed and target application rate, achieving consistent application for each unit area regardless of speed change caused by different terrain conditions. This helps avoid spraying too much or too little, preventing crops from the bad effects of uneven coverage and saving pesticides or fertilizers.

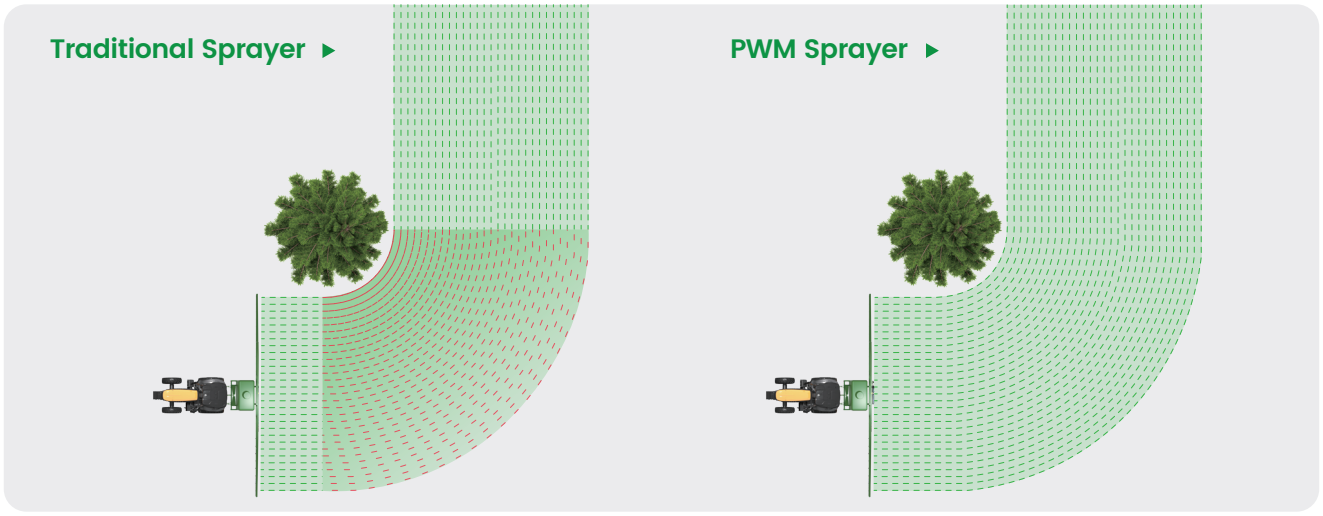
AUTOMATED SECTION CONTROL

Automate sprayer sections to start and stop automatically upon entering or exiting worked areas, reducing wasteful over-application and improving crop health by applying the optimal amount of resource exactly where needed.



INDIVIDUAL NOZZLE CONTROL

Control each nozzle separately through the PWM technique by rapidly turning the nozzles on and off at varying intervals (duty cycles), ensuring minimal overlaps and barely noticeable gaps. By issuing different duty cycles to nozzles on the inner and outer boom during turns, you can achieve the unified spray performance through turn compensation.



VARIABLE-RATE APPLICATION (VRA)

Adjust the volume of spray based on the imported prescription map, helping you quickly adapt to the changing conditions in different areas of your field. With variable prescribed rates parsed from each treatment zone, you can optimize the distribution of pesticides and fertilizers, improving spraying productivity at a lower cost while reducing environmental pollution.

TAILORED SOLUTIONS

	ATS-V	ATS-C (NON-ISOBUS)	ATS-C (ISOBUS)
FJD Auto Steer System	✓	✓	✓
Other Terminal with ISOBUS			✓
FJD Valve	✓		✓
Other valves like ARAG and GEOline etc.		✓	✓

QUICK SPECS

Control Terminal

Dimensions	275×180×40 mm
Power Supply	9–36V
Network Module	4G, 3G, 2G

GNSS Receiver

Frequency	GPS: L1C/A, L1C, L2P(W), L2C, L5; GLONASS: L1, L2; BDS: B1LB2I, B3I, B1C, B2a; Galileo: E1, E5a, E5b; QZSS: L1, L2, L5;

Electric Steering Wheel

Max Torque	30 N·m
Power Input	12V/24V

Sprayer Controller

Rated Voltage	9–36V
Electric Control Valves	3A/12V
Pressure Signal	Voltage Type: 0-10V; Current Type: 0-20 mA
Flow Signal	0–10 kHz
Communication Protocol	CAN
IP Rating	IP67

Integrated Valve

Operating Voltage	12V
Pressure Resistance	20 bar
Flow Rate	0–200 L/min
Boom Section Valves	3/5/7/9

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CREATE FOR A BETTER WORLD

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