

# PATRIOT

## 2550-4050

**A NEW GENERATION:**  
MORE POWER, MAXIMUM  
PERFORMANCE AND PRECISION  
FROM THE FIRST TO THE LAST DROP!



**CASE IH**

# PATRIOT 2550 - 4050

A NEW MACHINE, WITH MORE POWER, PRECISION,  
AND EFFICIENCY FOR MAXIMUM PRODUCTIVITY!

## **Patriot 2550 and 4050: a new era in spraying**

The Patriot 50 Series Case IH arrives on the market completely revamped, with cutting-edge technology, modern design and improved operational efficiency, ready to transform spraying in the field.

With an intelligent system that delivers greater application precision, full connectivity and better use of inputs, this new generation has been developed to increase productivity and maximise operational efficiency.

With significant advances over the previous version, the Patriot 50 Series has established itself as a benchmark in innovation, performance and reliability, ensuring more efficient, accurate and assertive spraying, harvest after harvest.

- New electronic architecture.
- New engine and transmission package.
- Best application technology on the market.
- More comfort and performance with the new suspension.
- Machines 100% connected and integrated with Case IH digital farming solutions.

- **COMFORT, RELIABILITY, AND PERFORMANCE**
- **OPERATIONAL PERFORMANCE**
- **APPLICATION TECHNOLOGY**





# TECHNOLOGY, ROBUSTNESS, AND PERFORMANCE IN THE FIELD

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The Patriot 2550 and 4050 are designed to deliver **maximum operational efficiency, stability, and precision in application**, even in the most demanding conditions.

With improved suspension and more traction, it provides a more stable and comfortable ride on any terrain. Advanced spraying technology, with individual nozzle control and automatic boom height adjustment, ensures uniform coverage, reduces waste, and better protects crops. The engine's ECO Mode optimizes fuel consumption, providing greater efficiency and lower operating costs without compromising performance.

All of this is integrated with FieldOps, with remote monitoring and intelligent real-time diagnostics on 100% connected machines.

The Patriot 50 Series is synonymous with greater precision, economy, and productivity!

# NEW DESIGN

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The new Patriot 50 Series arrives in the field with a completely revamped design, combining modernity, robustness, and high technology to deliver the best operating experience.

Its more spacious and ergonomic cab provides greater comfort for the operator during long working hours. The new front and rear hoods ensure a more modern look and facilitate access to components, optimizing maintenance routines.

Another highlight is the redesigned and repositioned ladder, which improves ergonomics and increases safety, making everyday life in the field more practical and efficient.





# SPACIOUS, COMFORTABLE AND CONNECTED CAB

## MORE TECHNOLOGY AND ERGONOMICS FOR THE FIELD

The new cab of the Patriot 2550 and 4050 raises the bar for comfort, technology, and usability, providing a more efficient, productive, and connected operation. Its modern design offers improved ergonomics, safety, and smart integration with systems and devices, ensuring total control of the operation and fluid communication throughout the entire journey in the field.

### HIGHLIGHTS OF THE NEW CABIN:

- **More interior space**, providing greater comfort for the operator.
- **Easy access** to diagnostic ports and fuse box, optimizing maintenance time.
- **Better shock absorption**, ensuring smoother and more stable operation.
- **Integrated radio**, providing greater connectivity and convenience in everyday use.
- **Inclusion of Bluetooth microphone.**





- New VIS 2 instrument panel.
- Modern and intuitive layout.
- More practicality, agility, and control in operation.

# LIGHTING SYSTEM

## 100% LED WORK LIGHTS AND BOOM-MOUNTED LIGHTS

In addition to the new layout and 100% LED work lights, the sprayer now features red application lights, providing better visibility of the spray jets, even at night.

### SMART FUSE BOX

The Smart Fuse Box ensures smart lighting, automatically turning on the headlights at dusk and memorizing the operator's preferences for greater convenience and customization.



**AVAILABILITY,  
SAFETY, AND  
EFFICIENCY!**





# NEW CONSOLE AND ARMREST: MORE ERGONOMICS, PRACTICALITY, AND CONTROL

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The new console and armrest on the Patriot 2550 and 4050 have been designed to offer intuitive usability, integrated connectivity, and simplified operation, transforming the operator's experience. With well-positioned controls and easy access to the machine's main functions, the new setup provides greater comfort, efficiency, and productivity in the field, from start to finish.

## FEATURES

- Ergonomic and comfortable design, ideal for long working hours.
- Centralized controls, allowing quick and precise adjustments.
- Integrated radio control and Bluetooth connectivity.
- More convenience and connectivity during operation.
- Increased efficiency and productivity in the field.



# TRANSMISSION

## INTELLIGENT 4WD TRACTION:

### PRECISE PERFORMANCE ON ANY TERRAIN

4WD transmission with automatic power adjustment via electronic control and real-time sensors.

- Intelligent traction that ensures maximum performance on any type of terrain.
- Automatic power adjustment per wheel, reducing slippage and increasing efficiency.
- Greater ramp capacity and better grip, ensuring greater stability during operations.
- Optimized fuel consumption, contributing to greater autonomy in the field.
- Precise and efficient movement, increasing operational productivity.

## BRAKE SYSTEM

Parking brake with manual and automatic activation.

Emergency brake fully integrated into the gearbox.

## INSTANTANEOUS MOVEMENT REVERSAL

Allows you to reverse the direction of the machine with a click of the joystick, ensuring a quick and easy transition.



STEEL BELLY PAN (OPTIONAL)



**215 HP ENGINE  
ON 2550**  
**272 HP ENGINE  
ON 4050**



**NEW FUEL TANK  
450 LITERS**



# ECO MODE

The new Eco Mode optimizes fuel consumption without compromising sprayer performance. It automatically adjusts engine speed according to demand, ensuring efficiency both during transport and spraying. More savings, more autonomy, and maximum productivity in the field.

- **Maximum efficiency:** reduces consumption without affecting the power of the machine's systems, including product application.
- **Quick and intuitive activation,** can be turned on or off at any time by the operator.
- With Eco Mode, operation becomes **more economical, efficient, and automated,** offering optimized performance in any working condition.
- **Feature available for all 50 Series machines.**

## HYDRAULIC TANK

- Capacity of up to 41.3 liters of oil at the maximum pressure gauge level.
- Total oil volume of the hydraulic system is 150 liters.



ON  
BUTTON



# NEW SUSPENSION ON PATRIOT 4050

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## STABILITY, COMFORT, AND OPERATIONAL PERFORMANCE

The new air suspension on Patriot 4050 sprayers ensures greater stability, comfort, and performance throughout the entire operation.

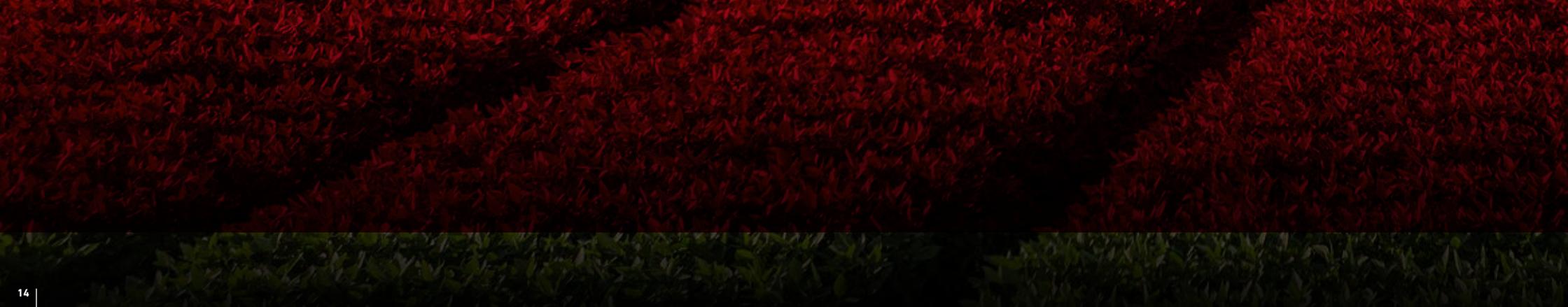
The system, consisting of air pockets, reduces impacts and vibrations, providing more uniform spraying, even on uneven terrain. In addition, it contributes to improved traction and reduces tire wear, ensuring greater efficiency and durability in the field.

### AIR SUSPENSION – KEY BENEFITS

- **Operator comfort:** High shock and vibration absorption, providing smoother operation, especially on uneven terrain.
- **Stability:** Automatically keeps the machine level, reducing tilt and improving spraying accuracy.
- **Automatic adjustment:** Adjusts air pocket pressure according to load and ground conditions, optimizing performance without the need for manual adjustments.
- **Durability:** Reduces wear on machine components due to improved shock absorption.









# NEW PRO 1200 MONITOR

## NEW TECHNOLOGY CONCEPT

The new Patriot 50 Series debuts with the Pro 1200 monitor, offering more technology, precision, and ease of operation.

### KEY FEATURES:

- **ADVANCED SCREEN** – 12.1" TFT LCD with capacitive touch, ensuring a modern and interactive experience.
- **ANDROID OPERATING SYSTEM** – Intuitive, flexible, and easy-to-navigate interface.
- **STRATEGIC LOCATION** – Installed on the armrest, allowing quick access and total control.
- **PRACTICAL CONNECTIVITY** – Side USB port for updates, importing and exporting files and settings.
- **CUSTOMIZATION** – Editable commands according to operator preferences.



**100%**  
**CONNECTED**  
**MACHINES**





# VECTOR PRO RECEIVER

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## MORE SATELLITES CONNECTED, MORE ACCURACY AND SPEED

The Vector Pro Receiver is compatible with major satellite constellations, including GPS, GLONASS, Galileo, Beidou (China), and QZSS (Japan), ensuring wide global coverage and a more stable signal, even in the most challenging operating conditions.

- **Greater protection against flickering**, ensuring more stable and accurate positioning in all conditions.
- **High resistance to interference**, ensuring reliable and continuous performance in the field.
- **Faster convergence**, reducing waiting time and speeding up the start of operations.



# TANKS

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The tank sizes are ideal for providing greater autonomy and operational availability without compromising application quality.

## GREATER OPERATIONAL AVAILABILITY

### PRODUCT TANK

- 2,500-liter capacity on Patriot 2550 and 4,000-liter capacity on Patriot 4050
- Level indicator visible to the operator.
- Adjustable agitation system operated from the cab.

### CLEAN WATER TANK

- Now with two clean water tanks  
280-liter + an additional 50-liter tank on Patriot 2550  
and 350-liter + an additional 50-liter tank on Patriot 4050.

## NEW 450 LITER FUEL TANK





# SUPPLY

## FRONT FUEL PUMP

The supply pump is located at the front of the sprayer and has a control with two modes: automatic and manual.

The supply pump control offers flexibility and efficiency, allowing the operator to optimize the process according to the needs of the operation.

## SUPPLY MONITOR

The Patriot now features a fuel monitor that provides automatic pump control, giving the operator essential information:

- Tank volume (main and injection tanks, if equipped).
- Agitation pressure.
- Volume and filling rate.
- Configuration of the desired fill level, ensuring greater precision and efficiency during the refueling process.

## NEW CHEMICAL INDUCTOR

Efficient washing system with 20-liter capacity, ensuring practicality, durability, and flexibility in water use.

## NEW CHEMICAL INDUCTOR



# SPRAY BOOMS

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## BEST BOOM STABILITY ON THE MARKET

AUTOBOOM, AUTOCENTER, AND AUTOFOLD

### AUTOBOOM XRT

Autoboom XRT provides greater stability to the vertical boom, automatically adjusting its height according to terrain conditions.

### AUTOFOLD

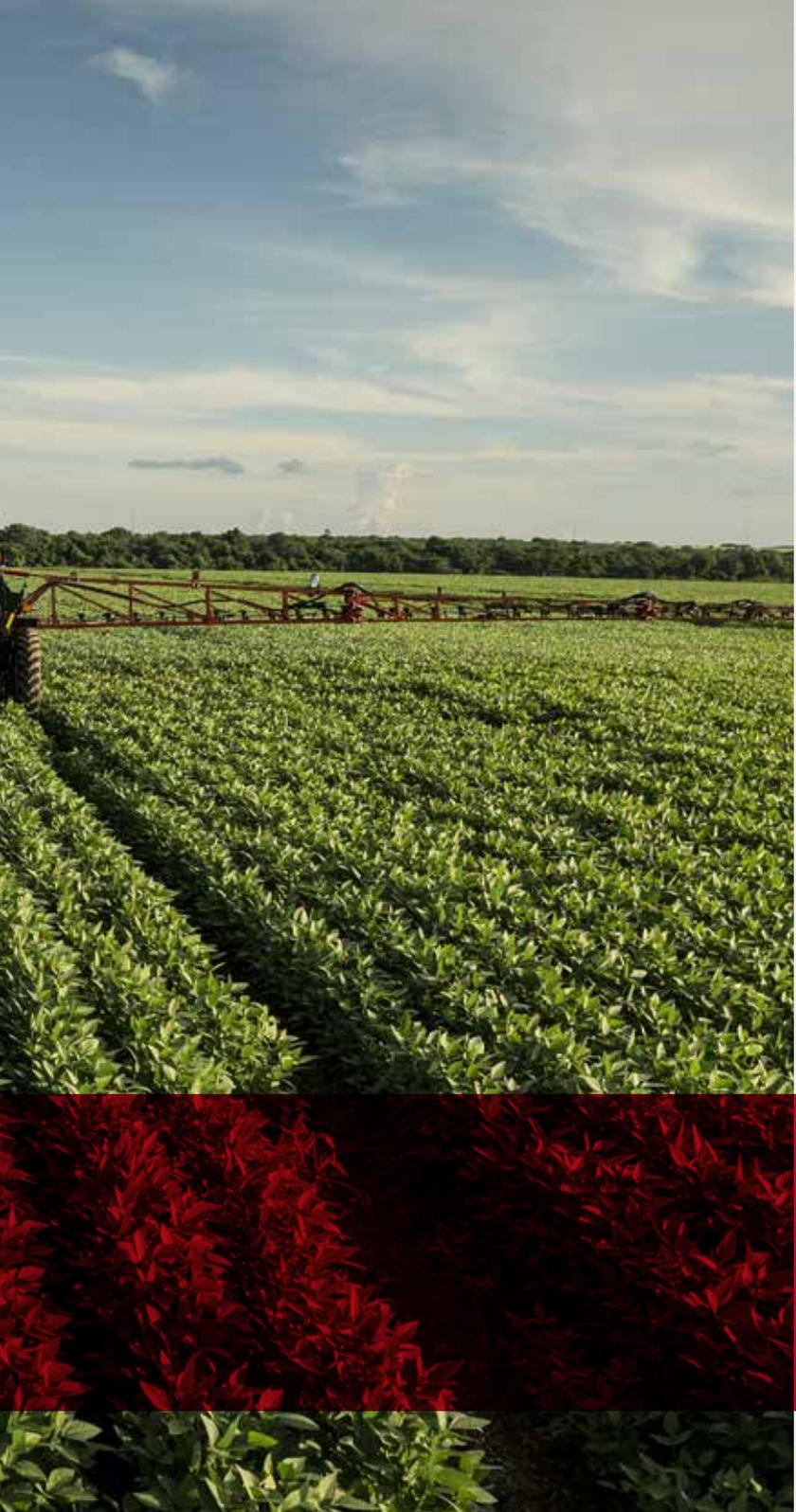
Autofold is the standard automatic opening and closing system on all spray booms. It automatically adjusts the boom, making work easier and operation faster and more efficient.

### AUTO CENTER

The AutoCenter system is calibrated together with the AutoFold calibration. AutoCenter automatically aligns the spray boom, ensuring that it remains centered without the need for manual adjustments.

**Calibration is performed directly on the Pro 1200 monitor, with easy, guided step-by-step instructions.**





### **NEW HYDRAULIC CIRCUIT**

New premium hydraulic circuit: greater durability, efficiency, and easy maintenance on spray booms.

### **STAINLESS STEEL WET BOOM**

The sprayer's wet booms are made of stainless steel, offering greater durability, corrosion resistance, and wear resistance.

### **FENCE NOZZLE**

Efficient spraying on edges and corners, reaching difficult areas and avoiding waste of inputs.

### **BOOM CHARACTERISTICS**

- 27, 30, and 32 meters on Patriot 2550
- 30 and 36 meters on Patriot 4050
- Carbon steel

### **BOOM HEIGHT**

- Variation from 0.6 to 2.2 m
- Manual or automatic control

### **SPRAYING**

- Nozzle holder with three conventional outlets
- Spacing between nozzles: 0.35 and 50.8 cm



# AIM COMMAND FLEX II

## HIGH PRECISION TAKEN TO THE NEXT LEVEL

AIM Command FLEX II is a true upgrade in application technology, offering even greater precision, control, and efficiency in the field. With nozzle-by-nozzle control, the system ensures accurate and uniform spraying, automatically adapting to working speed and terrain variations.

In addition, it significantly reduces overlap and product waste, contributing to a more rational use of inputs and greater profitability of the operation.

### FEATURES:

- **PRESSURE, FLOW, AND NOZZLE-BY-NOZZLE SECTION CONTROL, WITH GREATER PRECISION.**
- **WIDE PRESSURE RANGE (UP TO 827 KPA).**
- **ADJUSTABLE OPERATING FREQUENCY (10, 15, OR 20 HZ).**
- **REDUCED ENERGY CONSUMPTION (UP TO 60%).**
- **IMPROVED SEALING (IP69K), ENSURING GREATER DURABILITY.**
- **BOOM RECIRCULATION SYSTEM.**
- **SPOTSPRAY READY.**

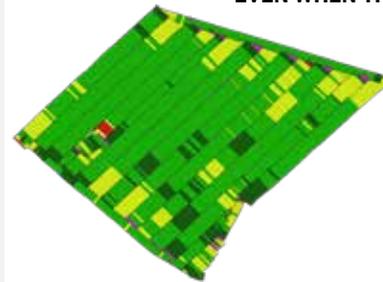




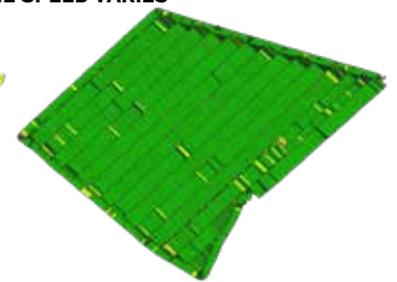
## BENEFIT

- Spray pressure and flow control.
- Consistent application pattern, maintaining the target rate even when varying speed.
- Nozzle-by-nozzle control and diagnostics.
- Curve compensation.
- Reduced drift due to uniform application.
- Consistent droplet size.

### CONSTANT APPLICATION PATTERN, MAINTAINING THE TARGET RATE, EVEN WHEN THE SPEED VARIES

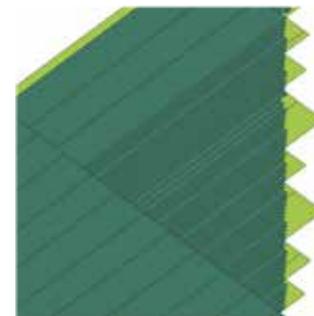


Without Aim Command Flex II  
(L/ha)

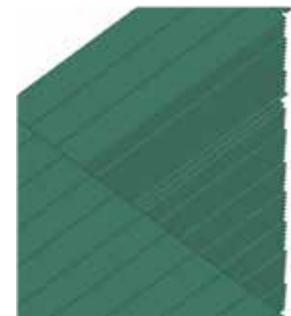


With Aim Command Flex II  
(L/ha)

### CONTROL AND DIAGNOSTICS NOZZLE BY NOZZLE



9 sections



Nozzle-by-nozzle

# BEST SPRAYING TECHNOLOGY

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## **BOOM RECIRCULATION: PRECISION FROM START TO FINISH**

Maintains continuous flow of the spray mixture in the lines, even with the nozzles turned off, preventing sedimentation and ensuring precision, uniformity, and effectiveness throughout the application. Available only on sprayers equipped with the AimCommand Flex II system.



## **BOOM PRIME AND BOOM CHARGE:**

Boom prime: used in conventional spraying to fill the boom, it applies the product directly out of the tips on to the crop or to the ground.

Boom Charge: exclusive to AimCommand Flex II with recirculation, it returns the product to the tank, ensuring the system is loaded and ready for application.





## **DIRECT INJECTION: MORE EFFICIENCY, SAFETY, AND FLEXIBILITY IN APPLICATION**

Now with two 100-liter tanks and individual injection pumps, it eliminates premixing and injects the product directly into the boom line, facilitating refilling, reducing waste, and allowing the use of incompatible products. The new extended ladder ensures safer and more practical access during operations.



# CASE IH FIELDOPS

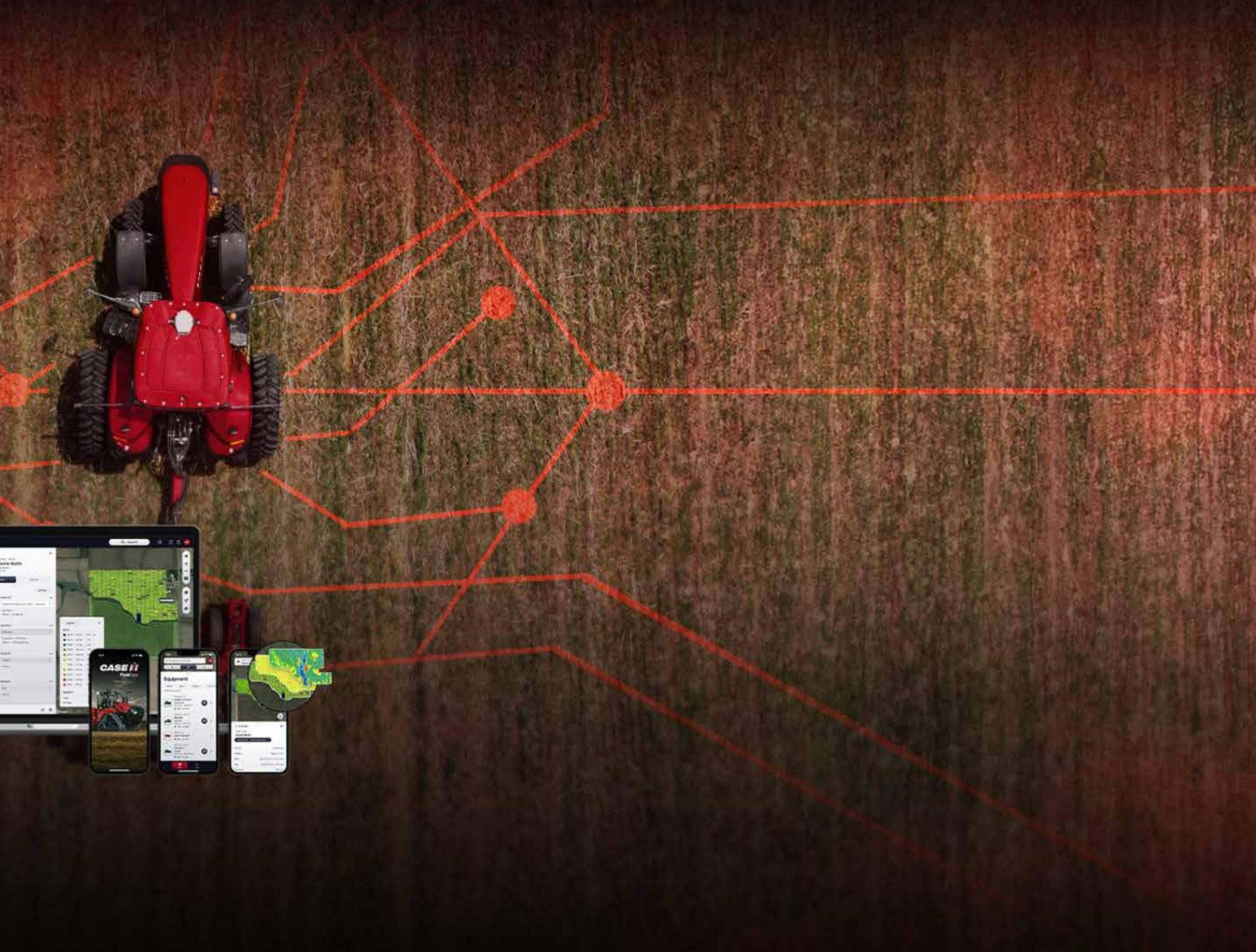
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## TOTAL CONNECTIVITY FOR SMARTER DECISIONS

FieldOps™ simplifies fleet management by integrating Case IH and multi-brand equipment into a single intuitive platform. Access real-time data such as operation monitoring, machine location, and service status. Receive strategic insights that help optimize performance and increase efficiency in the field.

Monitor machine health, identify priority faults, and receive customized notifications. In addition, analyze data by crop or period to improve your decisions and continuously increase productivity.





# SPECIFICATIONS

|                         | PATRIOT 2550                                       | PATRIOT 4050   |
|-------------------------|--|--|
| <b>ENGINE</b>           |  |  |
| Engine                  | Case IH FPT I 6 cylinders I 6.7 L I Tier 3 (MAR-I) |  |
| Power                   | 215hp  | 272hp  |
| Fuel tank capacity      | 450 liters   |  |
| Steel chest             | Optional   |  |
| <b>TRANSMISSION</b>     |  |  |
| Transmission            | Electronic hydraulic transmission Independent 4x4  |  |
| Eco Mode                | Automatic rotation control with fuel optimization  |  |
| Hydraulic tank          | 150 liters   |  |
| <b>SUSPENSION</b>       |  |  |
| Pneumatic               | Pneumatics   | Active hydraulics  |
| <b>TYRE</b>             |  |  |
| Standard                | VF320/90 R42 R-1 TL, 155D, ULTRA SPRAYER           | VF 380/90 R46 TL R-1, 173D, PROMETEON                    |
| Optional                | VF320/90 R42 TL, 163D, MICHELIN                    | VF 380/90 R46, 173, MICHELIN, 380/90 R46, 165A8 ALLIANCE |
| <b>DIMENSIONS</b>       |  |  |
| Gauge                   | 205 to 305cm, hydraulic adjustment from the cabin  | 305 to 399cm, hydraulic adjustment from the cabin        |
| Weight (dry)            | 9,995kg (32m boom)                                 | 13,185kg (36m boom)                                      |
| Overall length          | 8.3m   |  |
| Overall height          | 3.96m  |  |
| Wheelbase               | 3.54m  | 3.55m  |
| Ground clearance        | 1.60m  | 1.73m  |
| <b>SPRAY BOOM</b>       |  |  |
| Boom size               | 27, 30, and 32m I Carbon steel                     | 30 and 36m I Carbon steel                                |
| Boom height             | 0.60m to 2.20m                                     |  |
| Wet boom                | Stainless steel                                    |  |
| Spacing between nozzles | 35cm or 50.8cm                                     |  |
| Fence nozzle            | Bordering and hard-to-reach areas                  |  |
| Boom control            | Autoboom XRT, AutoCenter, and AutoFold - Standard  |  |

|                                   | PATRIOT 2550  | PATRIOT 4050 |
|-----------------------------------|---|--------------|
| <b>SOLUTION SYSTEM</b>            |   |              |
| Product tank                      | 2.500 liters  | 4.000 liters |
| Supply system                     | Fueling with integrated monitor I Fueling pump (Optional)   |              |
| Clean water tank                  | 330 liters  | 400 liters   |
| Product pump                      | Stainless steel centrifugal pump - Nominal flow rate of 746l/min with PWM control                     |              |
| Agitation system                  | 3 hydraulic agitation nozzles   |              |
| <b>APPLICATION CONTROLS</b>       |   |              |
| Section                           | Automatic 9-section shutoff   |              |
| Aim Command Flex II               | Nozzle-by-nozzle control I Pulse frequency (20Hz) - Optional  |              |
| Recirculation                     | Continuous flow product recirculation in the boom - (Optional available for Aim Command Flex II)      |              |
| Boom Prime and Boom recirculation | Automatic boom filling I Prime: Conventional I Boom recirculation: Available with Aim Command Flex II |              |
| Direct Injection                  | Two 100-liter tanks - Optional  |              |
| <b>PRECISION AGRICULTURE</b>      |   |              |
| Monitor                           | PRO 1200  |              |
| Receiving Antenna                 | Vector PRO  |              |
| Autopilot                         | Vector Pro Receiver + PRO 1200 Monitor + AFS VECTOR PRO - AFS1 I AFS3                                 |              |
| Telemetry                         | 100% connected machines integrated with the FieldOps platform   |              |
| <b>LIGHTING</b>                   |   |              |
| Work and spray lights             | 100% LED  |              |
| Intelligent lighting controller   | Customization and memory  |              |



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Safety never hurts! Always read the Operator's Manual before working with any equipment. Inspect equipment before using it, and be sure it is operating properly. Follow the product safety signs, and use any safety features provided. This literature has been published for worldwide circulation. The standard and optional equipment and the availability of individual models may vary from one country to the next. Case IH reserves the right to undertake modifications without prior notice to the design and technical equipment at all times without this resulting in any obligation whatsoever to make such modifications to units already sold. Whilst every effort is made to ensure that the specifications, descriptions and illustrations in this brochure are correct at the time of going to press, these are also subject to change without prior notice. Illustrations may show optional equipment or may not show all standard equipment. Case IH recommends **AKCELA** lubricants.

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