

APPLICATION TECHNOLOGY UNTIL THE LAST DROP

# PATRIOT 250

NOW WITH NEW BOOMS OF 30 AND 32 METERS



**CASE IH**



# PATRIOT 250

## PRECISION IN EVERY DROP

Designed to work in extreme conditions and in terrains of topography with irregularities, in which the producer needs power, traction and high performance, the Patriot 250 comes equipped with the highest of application technology and is ideal to small, medium and large producers.

Its Case IH FPT engine, localized at the rear, the cabin at front and the centralized product tank provides an optimal weight distribution and an excellent stability, in addition to causing less soil compaction.

With autopilot, automatic sections control, PWM rate control and the AFS Connect technologies, the Patriot 250 is the reference in spraying



Main differentials:

- Adaptation to many types of crop cultivation
- Agility and operational simplicity
- Excellent autonomy
- Great Boom stability and uniformity in the application
- Low-rate system : allows low flow applications with high accuracy.

#### WEATHER STATION

Informs and maps, in real time, the data of relative humidity, wind, temperature and delta T, facilitating decision-making for application.

#### LED LIGHTING SYSTEM

Great lighting, allowing work at any level of luminosity, bringing security and availability to the machine.

#### CABIN

Operational comfort and ergonomics.

#### MORE AUTONOMY

The fuel tank to 319 liters allows more work hours.

#### WHEEL TRACK ADJUST

With control of the cabin, the gauges of 250 to 305 cm provide more flexibility, practicality and reliability to the different types of crop cultivation.

#### AUTOPILOT

7% to 12% reduction in crop damage.

#### MORE STORAGE

With capacity of 2,500 liters of crop protection products, the tank has an adjustable sparge system that can be activated from the cabin.

#### MORE POWER

Engine FPT Tier 3 (MAR-I) of 6.7 liters  
Power of 177 cv  
6 cylinders in line Common Rail  
Turbo intercooler  
Power reserve of 23.6%

#### BOOMS

Boom of 27, 30 and 32 m, more operational capacity with fewer applications, lower fuel consumption, and larger pulverized area. The application height goes from 0.6 to 2.5cm.

#### SPRAYING SYSTEM

Stainless steel pump of **746 l/min**  
Valve **PWM**  
**Low-rate Control**  
9 sections  
Higher accuracy in applications

#### MORE TRACTION AND PERFORMANCE

Hydrostatic transmission has a traction assist system and independent flow for the 4 wheels.

#### CLEARANCE

1.63m of clearance, allowing application in advanced stages of the crop.





# AFS

WEATHER STATION, DIRECT  
INJECTION AND AIM COMMAND FLEX

**ASSERTIVENESS ON-BOARD.**

The Patriot 250 has a Weather Station, that, during the application, informs, maps and records, in real time, the following data:

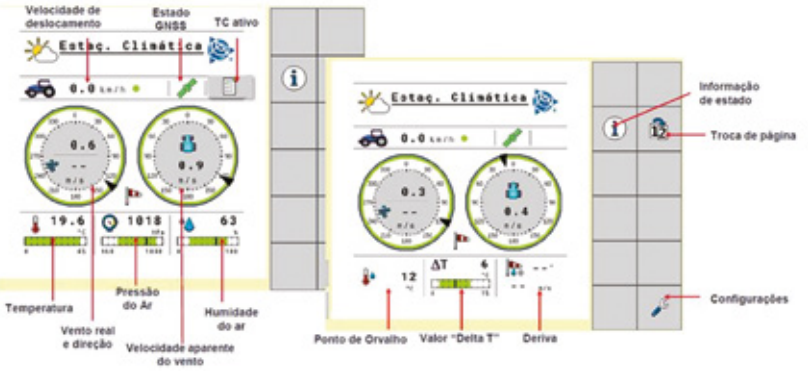
- Wind real speed and direction
- Wind apparent speed
- Air humidity
- Air temperature
- Atmospheric pressure
- Dew point
- Delta T (indicator of climate quality to a better effectiveness of the agent being applied)
- Drift



## AFS CONNECT 4G

Transmits and receives data in real time: high application management performance in the palm of your hand.





Weather Station Display



Weather Station

## NEW RECEIVER AFS 392



- Improves the performance of the autopilot set
- All available satellite constellations: GPS, Glonass, Galileo, Beidou e QZSS.



75% FASTER  
Hours day Gain up to

# 16%



PERFORMANCE IMPROVEMENT

- Profitability
- Availability
- Best answer under Scintillation
- Repeatability



EASY TO USE

- Comprehensive coverage
- Unlimited repeatability
- Precision 2.5cm
- Compatibility

**CORRECTION SIGNS**

- Ranger Point
- RTX Center Point
- RTK Trimble
- RTK + (NTRIP)

**PRO-POINT TECHNOLOGY**

- Signal RTX Center Point Performance:
- 25% More satellites used for positioning.
  - 40% Longer signal stability time with engaged pilot.
  - 75% Faster the convergence. Less than 5 minutes.



# AIM COMMAND FLEX AND DIRECT INJECTION

Applications rely on AIM COMMAND FLEX technology (optional), which allows pressure and flow control during spraying, even with variation in application conditions, thus ensuring the greatest and best droplet control on the market. The system also provides a reduction in overlapping and waste of product applied in the plantation. You have accuracy in every drop.

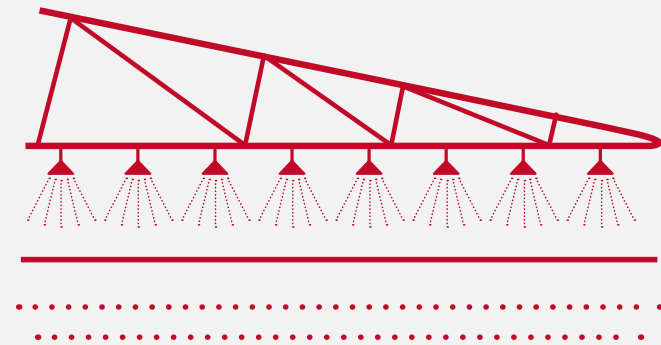
The result is: **200% in improvement of the uniformity of the drops and reduction of up to 60% of overlap of crop protection products.** Besides, the Direct Injection (optional) has two tanks with a capacity of 100 liters each, which eliminates the need for chemical mixing inside the main tank. The injection of the product from these tanks is made directly into the sprayer boom line. This provides the farmer with greater ease of replenishment, economy of input and the possibility of using products that are incompatible in the mixture.



Aim Command Flex



Direct Injection System



UNIFORMITY OF THE DROPS  
**IMPROVEMENT 200%**

UP TO 60% REDUCTION OF OVERLAP  
OF CROP PROTECTION PRODUCTS



# LED LIGHTING SYSTEM

## MORE AVAILABILITY

### APPLICATION AT ANY TIME OF THE DAY OR NIGHT

The new LED lighting allows the producer to work at any time, whenever necessary.



## MORE AVAILABILITY AND SECURITY



# TANKS

Tank sizes are ideal to provide more autonomy and operational availability, without interfering with the quality of applications.

## HIGHER OPERATIONAL AVAILABILITY

319 LITERS  
OF DIESEL



## 6% BIGGER

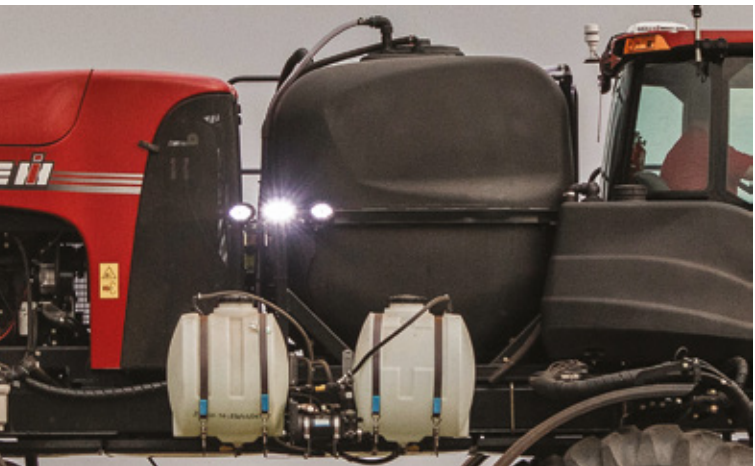
CLEANER WATER TANK  
than the main competitor

### CLEAN WATER TANK

■ 280 liters

### PRODUCT TANK

- Capacity for 2,500 liters
- Marking level visible to the operator
- Adjustable, in-cab stirring system



Product tank



# SPRAY BOOMS

The great stability of the spraying booms generates more uniformity in the application, with an increase in the coverage area. That is, you have more productivity and economy in your day to day work.

### BOOM PROTECTION

- Spring System
- Boom size: 4.42 m Tip
- release up to 30°



### SPRAYING

- Nozzle holder with three outlets
- 50.8 cm nozzle spacing (35 cm optional)
- 9 sections
- Fast acting ball valves

### SPRAYING TIP KIT

- Hollow cone – TXA8003VK
- Deflector fan – TT11004-VP
- Double fan deflector – TTJ60-11002VP
- Versatility and application quality



### AUTOBOOM XRT

- Increased vertical boom stability
- Radar sensors
- Automatic boom height adjustment
- Facilitates machine operation

### AUTOCENTER

- Horizontal boom stability
- Keeps the boom perpendicular to the machine (90°)
- Ensures full boom utilization
- Improves spraying performance

### BOOM FEATURES

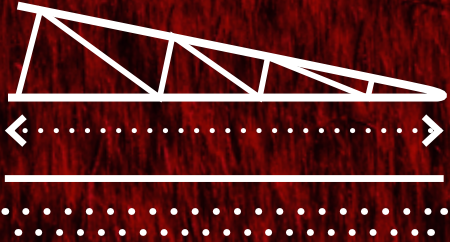
- Now with 27, 30 and 32 meters
- Rear continuous boom
- Uniformity in the application

### EZFOLD

- Opens and closes booms with a single button
- Agility in operations
- Simplicity

### BOOM HEIGHT

- Height control on lever
- Variation from 0.6 to 2.5m



**NEW BOOM WIDTH**  
INCREASE IN COVERED AREA, MORE BOOM OPTIONS  
**30m** +11% OF PRODUCTIVITY | **32m** +18.5% OF PRODUCTIVITY  
LESS APPLICATIONS, LESS CONSUMPTION AND MORE SPRAYED AREA



# VALVE PANEL AND SPRAYING PUMP

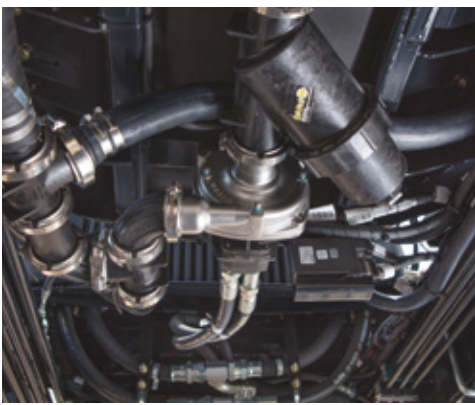
## SISTEMA LOW-RATE

- Low flow valve – allows for more precise regulation of the application rate at low volume
- Wide reading range flow meter: allows accurate readings at both high and low volume rates
- Greater application technology



## SPRAYING PUMP

- Stainless steel centrifuge
- Flow rate of 746 L/min
- PWM valve controlled to ensure accurate application rates



## VALVE PANEL

- Excellent location
- Easy access
- Possibility of up to seven operations
- Convenience in refueling





# CABIN

Comfort, space and security. This is how the cabin of the Patriot 250 is defined. A spacious and ergonomic environment, ideal for long working hours.

- DIRECTION**
- Hydraulics
  - Adjustable for operator

- INTERNAL SPACE**
- Wide
  - Comfortable seat, with seven types of adjustment
  - Seat for Instructor
  - Air conditioning
  - Pressurized cabin
  - Activated carbon filter

- CONSOLE**
- Operational simplicity
  - Ergonomically located
  - Operator's right armrest

WORK  
+ INTELLIGENT  
AND COMFORTABLE  
IN ANY CONDITIONS



- EASY ACCESS**
- Access from the front of the machine
  - Stairs with hydraulic drive
  - Large opening side door

- HANDLE CONTROL**
- Few buttons
  - Operational ease
  - Vertical and horizontal movement of the boom with a single button for each side

- INSTRUMENTS PANEL**
- Excellent location
  - Contains the main machine information
  - Armrest for greater operator's comfort
  - Easy viewing



# ENGINE



UP TO **15%** SAVINGS  
OF FUEL “ECONOMY MODE”

ECONOMY MODE

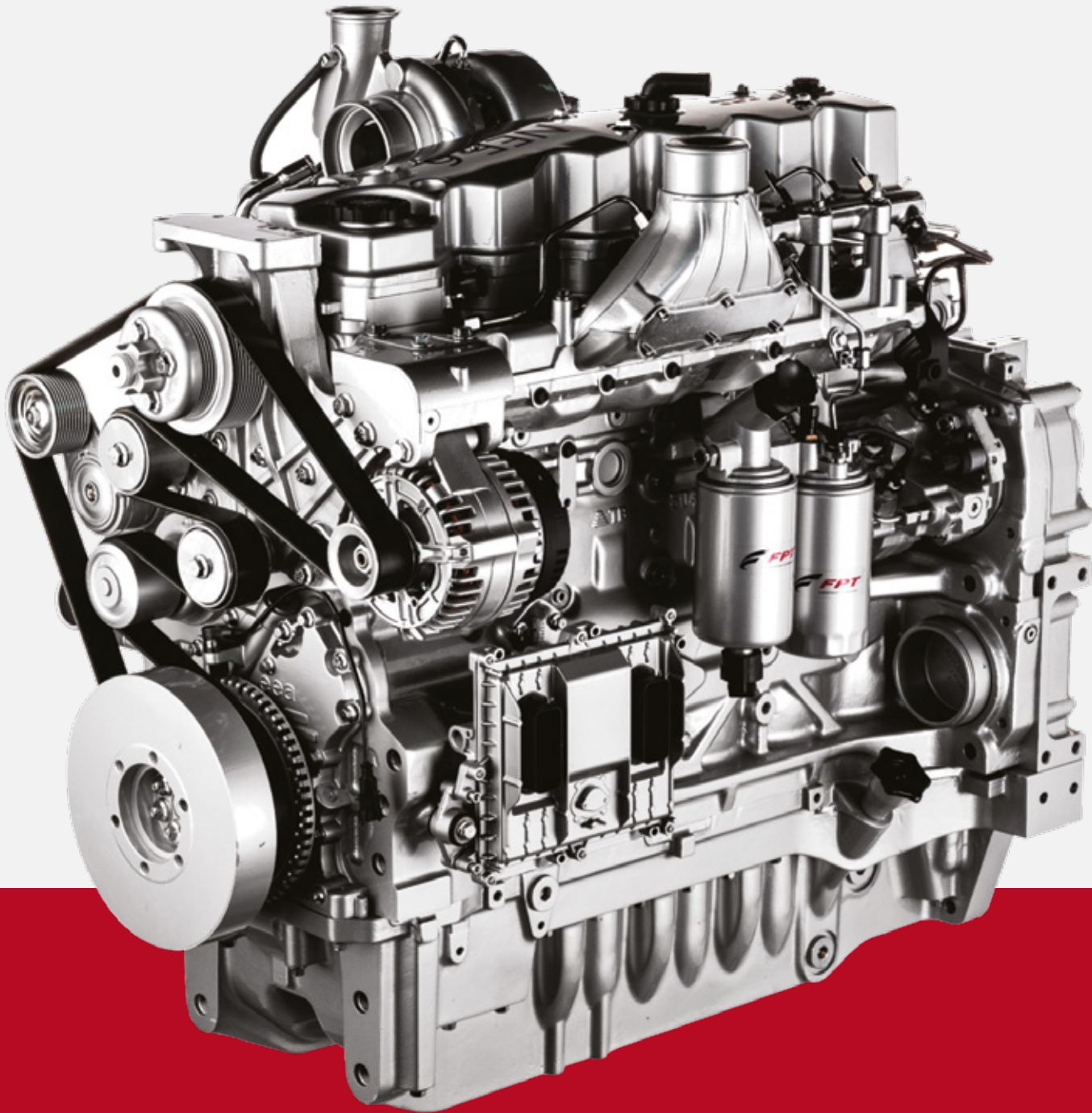
- Better performance on irregular terrain (20% better than the main competitor)
- Easy access for maintenance
- Higher operational availability

CASE IH FPT

- Tier 3
- Power: 177hp
- 6 cylinders in line
- 6.7 L
- Common Rail
- Turbo intercooler
- Power reserve of 23.6%

BELLY PAN (OPTIONAL)

- Allows protection of machine components
- Protect the crop



# ACTIVE SUSPENSION EXCLUSIVE CASE IH

ACTIVE SUSPENSION EXCLUSIVE CASE IH

- Automatic hydraulic suspension drive
- Ideal for rough terrain
- Assists in front wheel traction when pulling off
- Reduces component wear
- Increases machine performance

REAR SUSPENSION

- Simple maintenance
- Spring and Damper System

WHEEL TRACK

- Flexibility for different crops
- 2.50 to 3.05 m
- In-cab control
- Hydraulic adjustment
- Mechanical lock
- Greater convenience and reliability



# SPECIFICATIONS

| PATRIOT 250                                  |   |
|--|---|
| Engine                                       | <i>Case IH FPT, 6 cylinders, 6.7 L of 177cv turbo intercooler</i> |
| Transmission                                 | Hydrostatic, 4-wheel drive with traction assist                   |
| Wheel track                                  | 250 – 305 cm, hydraulic adjustment from cab                       |
| Weight (dry)                                 | 9.526 kg  |
| Product tank                                 | 2.500 L   |
| Spacing between nozzle                       | 50.8 cm or 35 cm (optional)                                       |
| Total length                                 | 7.2 m   |
| Total height                                 | 3.7 m   |
| Total width                                  | 3.2 m (gauge 2.5 m)   |
| Wheelbase                                    | 3.54 m  |
| Tire   | 320/90R42 (optional 13.6R38)                                      |
| Clearance                                    | 1.63 m  |
| Chassis Height                               | 1.7 m   |
| Turn radius                                  | 6.9 m   |
| Boom size                                    | 27 m, 30 m or 32 m  |
| Boom height                                  | 60 – 250 cm   |
| Wingtip breakaway                            | 30°   |
| Breakaway                                    | 2.74 m (boom 32 m)  |
| Suspension                                   | Active hydraulics   |
| Steering control                             | Hydraulics  |
| Fuel tank                                    | 319 L   |
| Monitor                                      | AFS Pro 700   |
| Rate control system                          | PWM   |
| Product pump                                 | Hydraulic drive, centrifugal, stainless steel, 746 L/min          |
| Rinse tank                                   | 280 L   |
| Eductor                                      | 36.5 L  |
| Hydraulic tank                               | 142 L   |
| Auto center (automatic boom centering)       | Standard  |
| Autoboom XRT (automatic boom height control) | Standard  |
| Direct injection (two 100 L tanks)           | Optional  |
| Belly Pan                                    | Optional  |
| Emergency brake                              | Optional  |
| Weight distribution                          | 50% front wheels and 50% rear wheels                              |

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 com o cliente. 24 horas por  
 dia, 7 dias por semana.

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