

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.



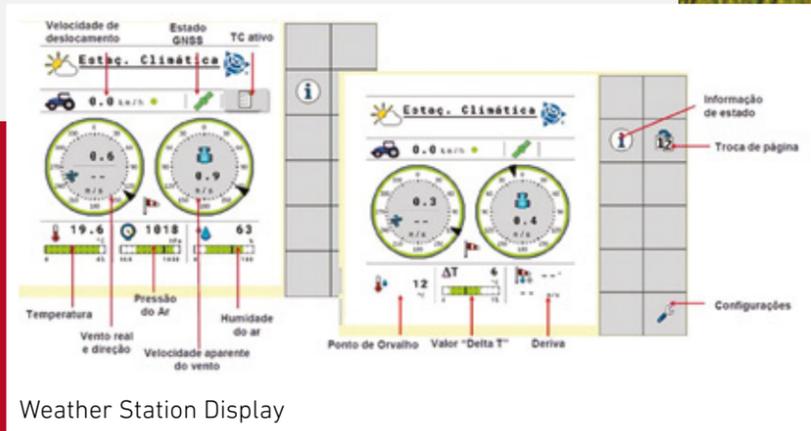
AFS

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.



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.

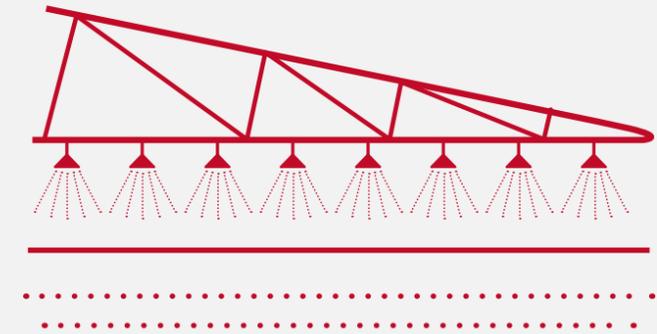
The result is: **200% in improvement of the uniformity of the drops and reduction of up to 60% of overlap of crop protection products.** Besides, the Direct Injection (optional) has two tanks with a capacity of 100 liters each, which eliminates the need for chemical mixing inside the main tank. The injection 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

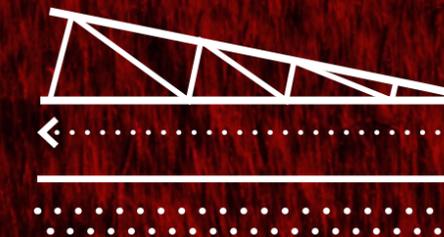
- Now with 27, 30 and 32 meters
- Rear continuous boom
- Uniformity in the application

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

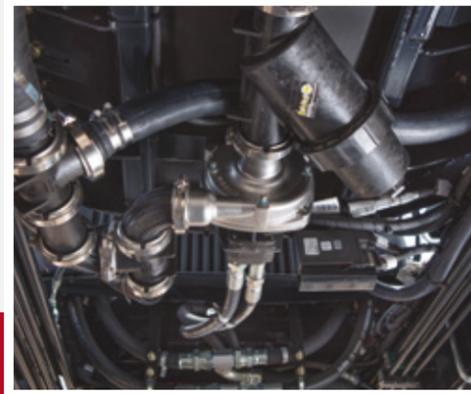
VALVE PANEL AND SPRAYING PUMP

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



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

**WORK
+ INTELLIGENT
AND COMFORTABLE
IN ANY CONDITIONS**

ENGINE



UP TO **15%** SAVINGS
OF FUEL "ECONOMY MODE"

ECONOMY MODE

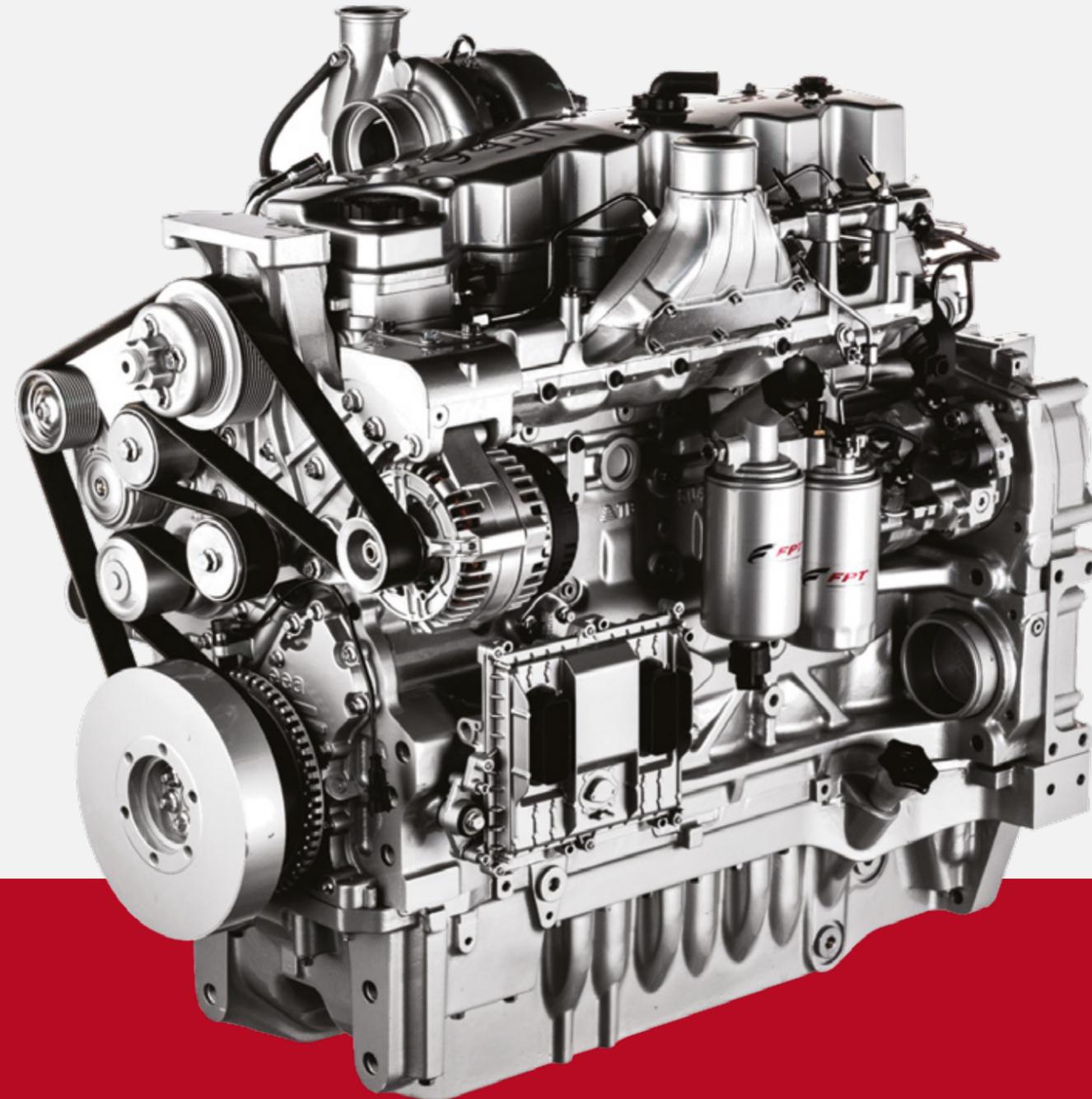
- Better performance on irregular terrain (20% better than the main competitor)
- Easy access for maintenance
- Higher operational availability

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	Case IH FPT, 6 cylinders, 6.7 L of 177cv turbo intercooler
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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