

HIGH TECHNOLOGY
APPLICATION IN ALL CROP PHASES

PATRIOT 350

PRECISION IN EACH DROP, NOW WITH THE HIGHEST
CROP CLEARANCE



CASE IH

PATRIOT 350

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The Patriot 350 arrives with a new crop clearance of 1.73 m to ensure quality and end-of-cycle applications in crops such as corn and sugar cane. With its engines and high technology on board, it will guarantee applications of higher quality, performance and operational capacity.

Ideal for small, medium and large producers, the Patriot 350 comes equipped with the highest application technology.

Differentials that place the Patriot 350 at the top of ranking of sprayers in its category

- 3,500 L product tank: greater operational capacity.
- 30 or 36 meter boom: greater operational capacity with fewer passes, less fuel consumption and greater spray area.
- 319 L fuel tank: greater operational capacity.
- low-rate system: allows low flow applications with high precision.

- **OPERATIONAL AVAILABILITY**
- **OPERATIONAL PERFORMANCE**
- **APPLICATION TECHNOLOGY**



Its 250 hp Case IH FPT NEF engine, 6 cyl., 6.7 liters, located at the rear, the cab at the front and the centralized product tank provide excellent weight distribution and excellent stability, in addition to less soil compaction.

In addition to having excellent autonomy and great stability of the spray boom, the Patriot 350 is robust, efficient and versatile, which allows it to adapt to different types of crops with agility and operational simplicity.

The Patriot 350 is equipped with autopilot, automatic section cutting, PWM rate control and a precision agriculture AFS Case IH technology package, plus active suspension, boom centering technologies low-rate system, that make it the ultimate in spray technology.

Higher application height with 2.5 m
CROP CLEARANCE OF 1,73 m



PRECISION FARMING

AFS - SOLUTIONS FOR PRECISION AGRICULTURE

The protection of your crop is directly related to the effectiveness of the application of phytosanitary products made by your sprayer. The Patriot 350 is equipped with the highest application technology, including all AFS (Advanced Farming Systems) differentials, which increases the efficiency of the operation and optimizes the use of the applied products.

AFS PRO 700 MONITOR

Sprayer control and precision farming functions on a single monitor.

The AFS Pro 700 monitor (standard item for Patriot 350 sprayers) has one of the largest touch screen of the market and is a unique interface for precision farming and machine control. It has 6 screens with up to 12 configurable indicators per screen. In addition to the predisposition for sending and receiving wireless information, the AFS Pro 700 monitor has a USB port to record machine parameters and precision agriculture for management analysis in the software AFS.



NEW RECEIVER AFS 392

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




75% FASTER
Up to
16%
gain in hours
per day


IMPROVED PERFORMANCE

- Profitability
- Availability
- Best response under flickering
- Repeatability


USER-FRIENDLY

- Extensive coverage
- Repeatability without limits
- Accuracy 2.5 cm
- Compatibility

CORRECTION SIGNALS

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

PRO-POINT TECHNOLOGY

- RTX Center Point Signal performance:
- 25% more satellites used for positioning
 - 40% more signal stability time with autopilot engaged
 - 75% faster convergence. Less than 5 minutes.



AFS GUIDE – AUTO-PILOT

The hydraulic automatic pilot system of the AFS Guide drive the sprayer automatically, using the most precise, compatible, and trustworthy systems of GPS signal correction and Glonass available in the industry (Omnistar, RTX and RTK).

The AFS Guide integrated with the Patriot 350 improves the quality of the application, reduces failures and overlap, reduces footprint on the crop and increases the efficiency of the operation, leaving the operator free to concentrate on other machine functions.

COMPONENTS:

- Electro-hydraulic predisposition
- AFS Pro 700 monitor
- Navigation module – Nav II
- Receiving antenna 392
- RTK Radio (optional)

AFS CONTROL – AUTOMATIC SECTION CUT

The AFS Control automatic section shutdown system electronically activates the spraying sections, acting on the opening and closing of the nozzles, in order to avoid overlap and, consequently, saving product (reducing the environmental impact).

AFS Control – greater application accuracy and reduced spray costs.

AFS SOLUTIONS - PRECISION AND MANAGEMENT IN PROTECTING YOUR CROP

- Failure reduction and overlap
- Greater efficiency in the spraying operation
- Optimization in the use of applied products
- Reducing environmental impact
- Simple operation
- Compatibility with RTK, RTX and Omnistar signal correction

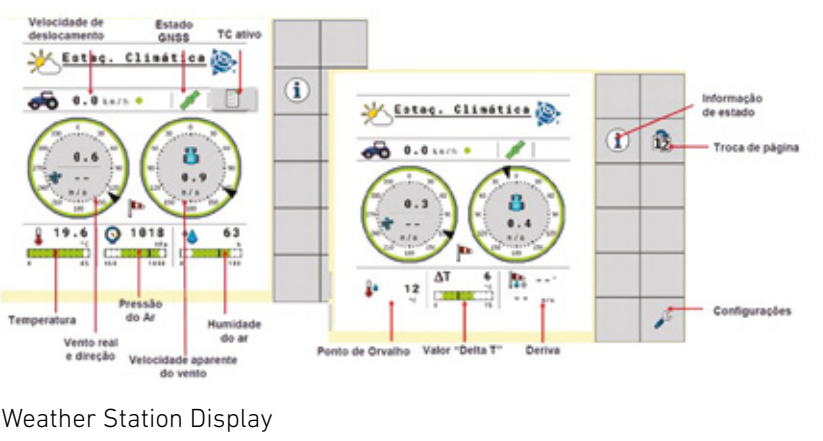
CONNECTIVITY AND TECHNOLOGY

WEATHER STATION, AFS CONNECT 4G AND NEW AUTOBOOM XRT

ON-BOARD ASSERTIVENESS

The Patriot 350 has the Weather Station, which, during the application, informs, maps and records the following data in real time:

- Real wind speed and direction
- Apparent wind speed
- Air humidity
- Air temperature
- Atmospheric pressure
- Dew point
- Delta T (Climate quality indicator for better effectiveness of the agent being applied)
- Drift



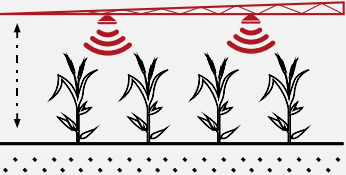
AFS CONNECT 4G

Transmits and receives real-time data:
high-performance application
management in your hand



NEW AUTOBOOM XRT

4 modes of operation, and new
sensors that, result in greater
stability, better performance and
greater accuracy in the application.



Weather Station Display

Weather Station



AIM COMMAND FLEX

THE MOST ACCURATE SPRAYING SOLUTION ON THE MARKET

This optional technology allows the control of pressure and flow during spraying, even with varying application conditions, ensuring a high quality pattern. In addition, it offers shutdown in 36 virtual sections, providing an incredible reduction in overlap and waste of product applied to the crop.

- REDUCED SPENDING ON INPUTS
- BEST APPLICATION QUALITY ON THE MARKET
- INDIVIDUAL NOZZLE DIAGNOSIS
- HIGHER OPERATIONAL EFFICIENCY.

DISTRIBUTION OF
APPLIED AMOUNT UP TO
75%
BETTER THAN A CONVENTIONAL SYSTEM

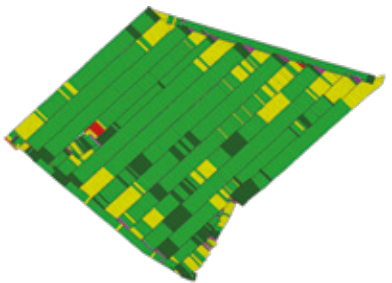


UNIFORMITY OF DROPS
200% IMPROVEMENT
REDUCTION OF UP TO 60% OF THE OVERLAP
OF PHYTOSANITARY PRODUCTS

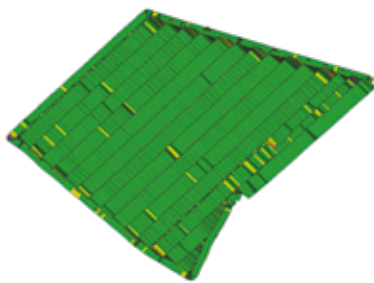
BENEFITS

- Spray pressure and flow control
- Constant pattern of application, maintaining the target rate, even varying the speed
- Control and diagnosis nozzle to nozzle.
- Curve compensation
- Increased application speed range
- Drift reduction due to uniform application
- Constant drop size

CONSTANT PATTERN OF APPLICATION, MAINTAINING THE TARGET RATE, EVEN VARYING THE SPEED

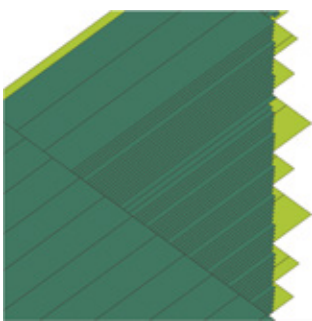


Without Aim Command Flex
(L/ha)



With Aim Command Flex
(L/ha)

CONTROL AND DIAGNOSIS NOZZLE TO NOZZLE.



9 sections



Nozzle to nozzle

TANKS

TANK SIZES ARE IDEAL TO PROVIDE MORE AUTONOMY AND OPERATIONAL AVAILABILITY, WITHOUT INTERFERING WITH THE QUALITY OF APPLICATIONS.

GREATER OPERATIONAL AVAILABILITY

 **6% more** CLEAN WATER TANK versus the leading competitor

CAPACITY OF 319 LITERS OF DIESEL

CLEAN WATER TANK

- 350 liters

PRODUCT TANK

- 3,500 liters
- Level sight visible to operator
- Adjustable and activated in-cab sparge system

DIRECT INJECTION

Direct injection system (optional). Two tanks, with a capacity of 100 liters each, eliminate the need for chemical mixing inside the main tank. The product is injected from these tanks directly into the spray boom line. This makes the refueling much easier, savings in input and the possibility of using products that are incompatible in the mixture.



Tanque de produto



SPRAYING BOOM

BOOM FEATURES

- 30 or 36 meters boom
- Rear Full boom
- Uniformity in application

SPRAYING

- Nozzles holder with three outlets
- Nozzle spacing of 50.8 cm or 35 cm (optional)
- 72 nozzle holders (boom 36 m)
- 9 sections
- Quick-acting ball valves

AUTOCENTER

- Horizontal boom stability
- Keeps the boom perpendicular to the machine (90°)
- Ensures full use of the boom
- Improve the spraying performance

BOOM PROTECTIONS

- Spring system
- Boom size: 3.5 m (137.8 in)
- Tip disarming up to 30°

BOOM HEIGHT

- Lever height control
- Range from 0.5 to 2.5 m

SPRAY TIPS KIT

- Hollow cone – TXA8003VK
- Patern deflector – TT11004-VP
- Double patern deflector – TTJ60-11002VP
- Versatility and application quality

AUTOFOLD

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



VALVES PANEL AND SPRAYING PUMP



LOW-RATE SYSTEM

- Low flow valve - allows more precise adjustment of the low volume application rate
- Wide reading flow meter: allows accurate readings at high and low volume rates
- Highest application technology



PRODUCT PUMP

- Stainless steel centrifuge
- 746 L/min flow rate
- Controlled by PWM valve to ensure accurate application rates



VALVES PANEL

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



CAB

STEERING

- Hydraulic
- With operator adjustment

INTERNAL SPACE

- Wide
- Comfortable seat with seven types of adjustment
- Instructional seat
- Air conditioning
- Pressurized cab
- Activated carbon filter

CONSOLE

- Simple operation
- Ergonomically located
- Operator's right armrest

EASY ACCESS

- Access from the front of the machine
- Ladder with hydraulic drive
- Wide opening lateral door

HANDLE CONTROL

- Speed control
- Few buttons
- Easy to operate
- Vertical and horizontal movement of the bar with a single button to each side

SIT DOWN SYSTEM

- The machine only operates with the operator sitting on the seat

INSTRUMENTS PANEL

- Excelent location
- displays key information of the machine
- Armrest for greater comfort
- Easy viewing

WORK
+SMART
AND COMFORTABLE
IN ANY CONDITION



SYSTEM OF LED LIGHTING

MORE AVAILABILITY

APPLICATION AT ANY TIME OF THE DAY OR NIGHT

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

 **MORE AVAILABILITY AND SAFETY**



ENGINE



UP TO **5%** OF FUEL SAVINGS.

CASE IH FPT

- Tier 3
- 250 hp
- 6 in line cylinders
- 6,7 L
- Common Rail
- Turbo intercooler
- 25% of power reserve
- 8,6% of power reserve

**ACTIVE FRONT SUSPENSION
EXCLUSIVE CASE IH**

- Automatic hydraulic actuation of the suspension
- Ideal for rough terrain
- Assists in traction of the front wheel at pull
- Reduces component wear
- Increases machine performance

REAR SUSPENSION

- Very easy maintenance
- Spring and damper system

WHEEL TRACK

- Flexibility for different crops
- 3.05 a 3.99 m
- In-cab control
- Hydraulic adjustment
- Mechanic lock
- Greater practicality and reliability



SPECIFICATIONS

PATRIOT 350	
Engine	Case IH FPT, 6 cylinders, 6,7 L, 250 cv, turbo intercooler
Transmission	Hydrostatic, 4-wheel drive with auxiliary traction
Wheel track	305 - 399 cm, hydraulic adjustment by the cab
Weight (net)	10,940 kg (boom 30 m)
Product tank	3,500 L
Distance between nozzles	35 cm or 50.8 cm
Total length	8.46 m (225.8 in)
Overall height	3.66 m (137.8 in)
Total width	3.99 m (13.1 ft)
Wheel base	3.81 m
Tire	380/90R46
Crop clearance	1.73 m (68.1 in)
Turning radius	6.90 m (8.35 ft)
Boom size:	30 - 36 m
Breakaway tip disarming	50 + 250 cm
Breakaway	30°
Tip size for 30 and 36 meters	3.10 / 2.68 m
Suspension	Active hydraulics
Steering	Hydraulic
Fuel Tank	319 L
Controller	AFS Pro 700
Application Control rate	PWM
Product pump	Hydraulic, centrifugal, stainless steel, 746 L/min
Rinse tank	350 L
Eductor	36.5 L
Hydraulic tank	105 L
Auto center (automatic boom centering)	Standard
Autoboom XRT	Standard
Direct injection (two 100 L tanks)	Optional
Emergency brake	Optional
Aim Command Flex	Optional

Case IH reserves the right to make improvements in design and changes in specifications at any time without notice and without incurring any obligation to install them on units previously sold. The specifications, descriptions and illustrative material contained herein correctly reflect the data known at the time of publication but are subject to change without notice. The illustrations may include optional equipment and accessories and may not include all standard equipment.