

# PATRIOT® SERIES SPRAYERS

**CASE IH**  
AGRICULTURE



## **SUPERIOR APPLICATION QUALITY TO MAKE THE MOST OF EVERY PLANT'S POTENTIAL.**

You need a sprayer that's ready when you are to take advantage of the perfect agronomic window to get into the field. You want it to provide consistent, accurate application across every piece of ground, and to work smoothly and reliably all season, every season. That's what today's Patriot sprayers are designed to do, in an application package that fits your operation perfectly. That's technology, engineering and expertise combined to keep plants healthy and maximize yield potential. That's Case IH Agronomic Design.





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## WHEN IT COMES TO CHEMICAL DELIVERY, MAKE SURE YOUR EQUIPMENT DELIVERS.

Both growers and commercial applicators know that timeliness of application is critical. Most often, you're facing long days and short application windows. That's why you need a sprayer that can work as long and hard as you do. Patriot sprayers offer the most advanced factory-installed spray technology on the market. Our durable Case IH FPT engines are built to deliver proven power and fuel economy, while the spacious, full-featured cabs allow you to do your job in comfort.



## SPRAY ON TIME.

The cab-forward, rear-engine Patriot design does much more than create our distinctive Case IH sprayer look. It provides more equal weight distribution across the machine, getting you into wet fields earlier for more timely application with less rutting and soil compaction. At the same time, optional 360-degree HID lighting adds hours to your day, while optimum use of efficient horsepower means you can cover more acres faster.

## SPRAY BETTER.

Crop protectants can only be as effective as the quality of the application. AFS AccuGuide™ autoguidance helps reduce skips and overlaps, while the AutoBoom automatic boom height control maintains optimum spray height for better coverage. AIM Command spray systems are designed to maintain both a constant rate and constant pressure under a range of speeds and conditions, as well as use a single tip for multiple applications.

## LONG HOURS WON'T FEEL AS LONG.

Patriot sprayers offer exceptional space to work in, allowing operators to stretch out their legs during those days when long hours of spraying are required. Vast amounts of cab glass and a well-thought-out cab design offer unrestricted visibility to the front and sides when traveling down the field or maneuvering around obstacles. Simply line up the gun sight on the front of the hood and you're ready to drive all day. Inside, the seat-mounted control console moves with the seat for near-effortless operation of sprayer controls. The AFS Pro 700 color display can be mounted on the control console or on a separate mounting bar for line-of-sight visibility of rate control and guidance functions, allowing you to focus on the field ahead.

## MAXIMIZE YOUR UPTIME.

Just how tough are these machines? Here's a hint: The very first Patriot we ever built is still up and running. Maybe it's the welded one-piece tubular frame design. It could be the simple but durable trailing-link suspension. Taking care of these sprayers is simple; routine maintenance items are located on one side of the machine and easily accessed. That saves time, so maintenance is less likely to get skipped when things get busy. And like the frames, our booms are designed for maximum strength, unequalled durability and unmatched reliability.



## DISTINCTIVE APPEARANCE. UNMATCHED PERFORMANCE.

The cab-forward, rear-engine configuration gives Case IH Patriot sprayers their distinctive look and their performance edge. This design puts the static weight of the cab and engine over the front and rear axles. The dynamic weight of the product tank is in the center of the machine, so there is more even weight distribution when the tank is full and the booms are out.

### MAKE YOURSELF COMFORTABLE.

The ergonomic Case IH cab and smooth ride allow you to work longer hours with less fatigue. Plus, sitting a full sprayer length away from the engine, you'll enjoy an exceptionally quiet ride.

### EVEN WEIGHT DISTRIBUTION.

The cab-forward, rear-engine design allows the machine to provide an extremely light footprint, yet maintain powerful performance. Field conditions and Mother Nature don't always cooperate when it comes time to spray. The even weight distribution of the Patriot sprayers allows you to get into the field sooner and on to the next with less rutting and soil compaction.



### SUPERIOR SUSPENSION.

The aircraft-style trailing-link suspension provides a smooth ride for operator and machine alike. Even over challenging fields, this suspension system absorbs both vertical and lateral shock loads in ways no other suspension package can. The optional active suspension is perfect to make light work of hilly terrain.





### **HEAVY-DUTY BOOM CONSTRUCTION.**

The booms of Patriot sprayers are engineered for toughness and rigidity. Large, rectangular tube structure and a truss-style design with fewer but larger support members are the basis for their strength and durability. Independent right and left booms, plus full boom and boom tip breakaway features, are designed to respond to tough field stress loads.

### **HEAVY-DUTY FRAMES.**

Constructed of welded, one-piece rectangular steel tubing, the frames of Patriot sprayers are engineered for durability and long service life. The rigid, low-deflection frame not only protects the cab, product tank and power plant from field loads, but it also provides a stable attachment point for the sprayer's booms.

## HOW WIDE IS THE RANGE OF BOOM OPTIONS? PRETTY WIDE.

Case IH offers choices of boom widths and options to fit any application – each one built with the rugged and durable parallel-link design for years of solid service. Patriot sprayers' advanced boom and boom suspension design provide superior strength without excessive weight and a wide range of spray heights for various crops and conditions, while also maintaining boom position at all speeds. That means that even in high-speed turns, the boom tips won't "dig" in.



### ACCUBOOM.

AccuBoom automatic boom section control automatically turns off boom sections when the sprayer enters an area that has already been sprayed and then turns the sections back on when leaving the applied area.

### AUTOBOOM.

AutoBoom automatic boom height control detects changes in terrain and adjusts the booms accordingly. This not only decreases operator fatigue and wear and tear on the machine, but it also increases the accuracy and coverage of the applications. Configure your AutoBoom system with additional ultrasonic sensors or gauge wheels to maintain a level spray platform. This will provide the best possible application and maximize boom life.





### AUTOFOLD PLUS.

The AutoFold Plus boom fold/unfold feature is part of the Case IH 36.5 m (120 ft.) spray boom package. With the touch of a single switch the unfolding process begins. In about 30 seconds, the inner-, mid- and outer-boom sections are completely unfolded and the center section height is lowered to its most recent setting. This return-to-height feature eliminates guesswork about boom height when moving from field to field.



### PARALLEL-LINK DESIGN.

Patriot booms offer greater durability and longer service life. The parallel-link design delivers the versatility retailers and growers need with a 1.65 m (5.41 ft) range of motion (1,60 m for Patriot 2230) for spraying pre-plant, post-tassel or anytime in between.

PATRIOT SPRAYER BOOM WIDTHS				
MODEL	18.3/24.4 M (60/80 FT.)	18.3/27.4 M (60/90 FT.)	18.3/30.5 M (60/100 FT.)	18.3/27.4/36.5 M (60/90/120 FT.)
2230	●	●		
3230		●	●	
3330		●	●	●
4430		●	●	●



**AIM** Command<sup>™</sup>

**AIM COMMAND:  
TAKING ACCURACY TO THE NEXT LEVEL.**

Getting the most out of every tankful of product, every hour of the day, and every acre of ground is what Case IH Patriot sprayers are all about. The optional AIM Command advanced spray system can maximize your Patriot sprayer's effectiveness by optimizing application rates and droplet sizes in every spraying condition, in every part of the field. AIM Command allows operators to increase their spraying speed, get better application quality and ensure consistent coverage.





#### **INSTANTLY CONTROL FLOW RATE.**

To manage flow rate, AIM Command automatically adjusts the pulse width via a solenoid at the nozzle body. This ensures a constant application rate at a specific, constant pressure even as sprayer speed and field conditions change.

**A HIGHER LEVEL OF SPRAY TECHNOLOGY.** Realize greater control with the most accurate application system you can get. AIM Command delivers constant product application rates and spray pressures even as your speed changes.

#### **INDEPENDENT PRESSURE CONTROL.**

Constant spray pressure at the boom is maintained for the operator by the system's independent pressure control. The AIM Command system's computer uses the sprayer's product pump to control pressure independent of application rate and ground speed.



#### **AIM COMMAND EASE OF OPERATION.**

Three conveniently placed switches put true application control right at your fingertips, letting you choose the AIM Command system or conventional spraying and control pressure settings.

#### **PROVEN PRODUCTIVITY.**

The operator can drive according to field conditions without concern for pressure deviation, so average field speed can increase by one, three or even more miles per hour. With independent control of the speed, pressure and flow, AIM Command is able to increase the sprayer's production potential and reduce the cost per acre of running your Patriot sprayer. That's proven productivity.



#### **IMPROVED DRIFT CONTROL.**

Changing weather and wind can make spray patterns difficult to control. AIM Command allows you to toggle between two preset spray pressures, providing "on-the-go" drift control.

#### **ELIMINATE OVER/UNDER APPLICATIONS.**

Constant boom pressure and droplet size can be maintained throughout an 8-to-1 speed range, so AIM Command applications result in better coverage in every acre of the field. This eliminates under- or over-application of chemical rates – even at headlands and corners.

#### **WILGER COMBO-RATE® NOZZLE BODIES.**

For more than 30 years, Wilger has been engineering high quality sprayer components. Wilger Combo-Rate nozzle bodies are available on every Case IH Patriot sprayer.

## COMFORT BOOSTS ACRES PER DAY.

When application windows are narrow and every hour in the field counts, operator comfort isn't a luxury – it's a necessity. That's why Patriot sprayers are designed to let operators work longer with less fatigue. Expansive front windshields offer a wide vista of tinted glass and put the operator in control. Ergonomically designed, line-of-sight instrumentation positions critical operating functions right up front, leaving the operator free to focus on the work at hand. The pressurized cabs keep the inside air clean and fresh, while the automatic temperature control and sunshades keep the operator cool and comfortable.



### HAVE A SEAT.

The Patriot air-ride seat is adjustable for position, ride firmness and lumbar support to provide the best fit and ride. On the Patriot 4430 (shown above), an exclusive, 40-degree, right-hand swivel seat gives you a 180-degree full field of vision that keeps you from having to strain your neck all day. In addition, the Patriot 4430 instructional seat can be folded when not in use to provide a convenient workstation with cup holders.



### AFS PRO 700.

The optional AFS Pro 700 color display puts total control at your fingertips. From just one display, you can monitor and control both guidance functions and application rate as well as track ground speed, acres covered and other variables. Plus, it integrates seamlessly with AFS software to store, view and manage precision farming data, helping you adjust for in-field variability and improve yield potential. Order your sprayer AFS AccuGuide-ready, and then complete the installation with the AFS Pro 700 color display, the AFS 372 GPS receiver and the Navigation II controller. These three components can also be transferred from your AFS AccuGuide-equipped tractor or combine onto the sprayer to minimize the overall technology investment.

PATRIOT 3230 SPRAYER CAB SHOWN

**A** INSTRUCTIONAL SEAT

**B** AIR-RIDE SEAT

**C** TILT AND TELESCOPING STEERING COLUMN

**D** A-POST GAUGES AND READ-OUTS

**E** AFS PRO 700 COLOR DISPLAY

**F** WHEEL TRACK ADJUSTMENT (UNDER ARMREST COVER)

**G** RIGHT-HAND CONTROL CONSOLE

**H** HYDROSTATIC CONTROL LEVER



### TAKE ABSOLUTE CONTROL.

Sprayer control switches (G) are ergonomically placed—attached directly to the operator's seat. The most commonly used controls are placed on the hydrostatic control lever (H) for one-handed operation.

## A PATRIOT FAMILY PORTRAIT.

Case IH Patriot sprayers are popular with leading custom applicators, retailers and growers because they help operators consistently make timely and accurate applications. With a deep understanding of production agriculture and agronomic principles, the Case IH design delivers more agronomic advantages that help you get the most out of every tank, every acre, every day. All four Patriot models share key design features that set these sprayers apart, including cab-forward design, advanced boom construction, long field life, easy service and high resale value.

SPRAYER MODEL	ENGINE kW (HP)	TANK CAPACITY L (GAL.)
4430	250 kW (335 hp)	4 542 L (1,200 gallons)
3330	212 kW (285 hp)	3 785 L (1,000 gallons)
3230	187 kW (250 hp)	3 028 L (800 gallons)
2230	123 kW (165 hp)	2 500 L (660 gallons)





### **PATRIOT LIGHTING OPTIONS.**

Finish the job after nightfall. Standard lighting includes halogen lighting in the front hood, cab and service center/booms along with LED amber turn signals and red tail lights. Optional lighting includes high intensity discharge (HID) lights in the front hood and also on the cab roof, or chassis frame for the Patriot 2230. Cab post-mounted rotating beacons are also available.



### **PORTABLE PRECISION CONTROL.**

AFS Pro 700 color display has a big bright screen and is faster, lighter and transferable to other Case IH machines. It allows the operator to easily control application rates and guidance functions.



### **TRAILING-LINK CHASSIS SUSPENSION.**

Handles a full range of field loads and travel speeds for a smooth, comfortable ride.



### **WILGER COMBO-RATE® NOZZLE BODIES.**

Optional Wilger Combo-Rate II nozzle body adds flexibility.



**CASE IH PATRIOT 4430 SPRAYER.**

Award-winning. Industry-leading.

- 4542 L (1,200 gal.) Class IV sprayer
- Case IH FPT engine: 242 base kW/265 peak kW (325 hp/356 hp)
- Surveyor cab provides great comfort and view



**CASE IH PATRIOT 3330 SPRAYER.**

3785 L (1,000 gal.) of Patriot performance.

- 3785 L (1,000 gal.) Class III sprayer
- Case IH FPT engine: 186 kW (250 hp)
- Available 36,58 m (120 ft.) boom on a 3785 L (1,000 gal.) sprayer
- Improved hood design delivers easy access





**CASE IH PATRIOT 3230 SPRAYER.**  
Mid-size sprayer. Big-time productivity.

- 3028 L (800 gal.) Class III sprayer
- Case IH FPT engine: 164 kW (220 Hp)
- Easy access to routine service and maintenance items



**CASE IH PATRIOT 2230 SPRAYER.**  
Patriot quality for the owner-operator.

- 2500 L (660 gal.) Class II sprayer
- Case IH FPT engine: 123 base kW/129 peak kW (165 hp/173 hp)
- Higher clearance than competitive models in its class
- Cool, quiet, comfortable Patriot 2230 cab, sized for frame





## MORE TIME TO SPRAY, EVERY DAY.

Time spent on maintenance is time away from the field. Patriot sprayers feature a one-stop service center that lets you perform all tendering functions from a single location. Connections are provided to make it easy to fill tanks from ground level. Large plumbing hoses, direct hose routings and minimal fittings and connections are standard, making tank fill time shorter. Case IH Patriot sprayers are designed to get maintenance out of the way quickly and efficiently... and get you back in the field ASAP.



### IT'S ALL WITHIN REACH.

In-field service is a snap. An open architecture design allows easy access to components under the sprayer frame. And ladders, walkways and platforms make it easy to access service points higher up.



### EASY-ACCESS EDUCATOR.

The easy-access stainless-steel eductor is designed for simple, efficient operation. The chemical eductor lowers to waist level, then stores conveniently out of the way.



### EASY-OPEN HOODS.

Lightweight, easy-open hoods on the Patriot sprayer models give you unrestricted access to service items. This access point allows for quick checks or service and gets you back in the field sooner – enhancing the machine's productivity. To keep things moving, fuel tanks are sized to allow for a full day of spraying.



### WALK THIS WAY.

All Patriot sprayers have a full-length walkway that provides easy access to all routine maintenance and inspection points on one side of the sprayer—including the fuel and DEF tanks, cab, product tank and engine compartment.



## MORE THAN MACHINES TO WORK FOR YOU: WE'VE GOT PEOPLE TO WORK WITH YOU.

When you buy a Case IH machine, you can be sure not only that you're buying the best product, but also that you've got the best dealer back-up behind you. Case IH dealers can offer advice on selecting the right machine, will ensure they deliver what you need when you need it, and will then continue to back you and your equipment with the service and spare parts backing you'd expect from a name as trusted as Case IH.

### SKILLED BUSINESS ADVISOR AT YOUR DEALERSHIP DEMAND MORE FROM YOUR CASE IH DEALERSHIP.

Purchasing a standalone piece of new equipment? Keeping a whole fleet up-to-date? Whatever your size of operation, contact your local Case IH dealership for professional advice on your business needs. Case IH knows your farming needs best.



### MAINTAIN THE PRODUCTIVITY OF YOUR INVESTMENT.

Case IH and its dedicated dealer network provide excellent support when you take delivery of your new machine and whilst it remains in your ownership. On the farm, you can rely on trained service professionals to maintain the productivity of your investment.



### DEFEND YOUR WORK, INVESTMENT AND EQUIPMENT. ALWAYS CHOOSE CNH INDUSTRIAL GENUINE PARTS.

Protect the value of your investment. Behind every Case IH product stands an extensive parts logistics organisation, stocking parts for products both old and new. Choosing to fit genuine Case IH parts will maintain the safety, value and performance of your original investment.





MODELS	PATRIOT 2230	PATRIOT 3230	PATRIOT 3330	PATRIOT 4430
<b>SPECIFICATIONS</b>				
Engine	Case IH FPT 6.7 L (409 cu. in.) inline 6-cylinder, 123 kW (165 rated hp), 129 kW (173 peak hp), 743 Nm (548 ft.-lbs.) peak torque, turbocharged, after-cooled, electronically controlled diesel, Tier 3	Case IH FPT 6.7 L (409 cu. in.) inline 6-cylinder, 187 kW (250 rated hp), 201 kW (270 peak hp), 1160 Nm (855 ft.-lbs.) peak torque, turbocharged, after-cooled, electronically controlled diesel, Tier 3	Case IH FPT 6.7 L (409 cu. in.) inline 6-cylinder, 212 kW (285 rated hp), 230 kW (309 peak hp), 1175 Nm (867 ft.-lbs.) peak torque, turbocharged, after-cooled, electronically controlled diesel, Tier 3	Case IH FPT 8.7 L (531 cu. in.) inline 6-cylinder, 250 kW (335 rated hp), 279 kW (374 peak hp); 1550 Nm (1,143 ft.-lbs.) peak torque, turbocharged, after-cooled, electronically controlled diesel, Tier 2
Drive	Hydrostatic with full-time 4-wheel drive. Four speed ranges can be shifted on-the-go	Hydrostatic with full-time 4-wheel drive. Infinitely variable speed control returns wheel motor swash plates to maximum angle each time the hydro lever is returned to neutral. Allows maximum torque for each start		
Wheel Track Adjustment cm (in.)	229-305 (90" – 120") manual adjustment; optional hydraulically adjusted from the cab with manual stops at 5.1 (2") increments	305-399 (120" – 157") hydraulically adjusted from the cab with manual stops at 2.54 (1") increments per wheel		
Travel Speed kph (mph)	45 (28)	48 (30)		
Dry Weight kg (lbs.)	9540 Base Unit (21,030)	10650 (23,480)	11367 (25,060) (90/100 ft. boom); 12047 (26,560) (120 ft. boom)	12428 (27,400) (90/100 ft. boom); 13109 (28,900) (120 ft. boom)
Solution Tank Size L (gal.)	2500 (660) poly	3028 (800) stainless steel or poly construction	3785 (1,000) stainless steel	4542 (1,200) stainless steel
Nozzle Spacing cm (in.)	50.8 (20") off-center or 50.8–76.2 (20"–30") with 76.2 (30") on-center			
Overall Length m (ft. in.)	8.8 (28 10")			9.1 (29 10")
Overall Height m (ft. in.)	3.7 (12 2")	3.7 (12)		
Overall Width m (ft. in.)	Wheels retracted 3.2 (10 6"); Wheels extended 3.5 (11 6.5")	Wheels retracted 3.5 (11 6"); Wheels extended 4.5 (14 7")		
Wheelbase m (ft. in.)	3.6 (11 8")	3.8 (12 6")		4.1 (13 4")
Tire Size	Available with 320/90R42, 380/80R38 and 420/85R38	Available with 320/90R46, 380/85R46, 380/90R46, 520/85R38 and 650/65R38	Available with 320/90R46, 380/90R46, 520/85R38 and 650/65R38	Available with 320/90R46, 380/90R46, 650/65R38 and 620/70R38
Ground Clearance cm (in.)	158 (62") with R42 tires	132 (52")		135 (53")
Turning Radius m (ft. in.)	6.9 (22 7") from center line of rear axle	7.1 (23 3") from center line of rear axle		7.5 (24 9") from center line of rear axle
Boom Length m (ft.)	18.3/24.4 (60/80) or 18.3/27.4 (60/90) self-centering	18.3/27.4 (60/90) or 18.3/30.5 (60/100) self-centering	18.3/27.4 (60/90), 18.3/30.5 (60/100), or 18.3/27.4/36.5 (60/90/120) self-centering	
Boom Adjustment Height cm (in.)	68–228 (27" – 90")	48–213 (19"–84")		
Full Boom Breakaway (°)	23	30		
Wingtip Breakaway m (ft. in.)	1.6 (5 2.5")	1.7 (90–5 6")/ 3.2 (100–10 6")	1.7 (90–5 6")/3.2 (100–10 6")/ 2.7 (120–9)	1.7 (90–5 6")/3.2 (100–10 6")/ 2.7 (120–9)
Suspension	4-wheel independent trailing-link with spring and shock standard; active suspension optional			
Steering	Hydraulic power steering with master/slave re-phasing cylinders			
Fuel Tank/DEF Tank L (gal.)	454 (120) / 79 (21)	454 (120)/79 (21)	454 (120)/79 (21)	530 (140)/79 (21)
Sprayer Control	Case IH AFS Pro 700			
Product Pump	Centrifugal-hydraulic motor drive by product control system			
Foam Marker L (gal.)	27 (7.0) self-contained foam marker system	208 (55) high-volume foam marker system. Air supply take from turbocharger	208 (55) high-volume foam marker system. Air supply take from turbocharger standard; engine-driven air compressor optional	
Rinse Tank L (gal.)	280 (74)	424 (112)		530 (140)

**!** 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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