



TOMORROW'S ENGINEERING, HERE TODAY.

WHY ARE CASE IH PATRIOT™ SPRAYERS TODAY'S CHOICE?

BECAUSE THEY OFFER TOMORROW'S PERFORMANCE WITH BOLD ADVANCES IN SPRAY TECHNOLOGY, LIKE AIM COMMAND.™ THEY OFFER UNIQUE SPRAYER CONFIGURATIONS SUCH AS THE REAR-ENGINE 4420 AND 3320 WITH "ACTIVE SUSPENSION" AND THE SURVEYOR™ CAB. IT ALL ADDS UP TO ADVANCES IN

SPRAYING, DRAMATIC INCREASES IN PRODUCTIVITY, AND REDUCED COSTS PER ACRE. AND THAT'S CREATED A WHOLE NEW GENERATION OF LOYAL CUSTOMERS.

CASE IH ENGINEERING TEAMS IN FOUR LOCATIONS WORK TOGETHER, CONTINUING A HISTORY OF INNOVATIVE ENGINEERING AND STRATEGIC PARTNERING. THEY EXCHANGE IDEAS, ADAPT DESIGNS AND



INCORPORATE THE LATEST TECHNOLOGY
BREAKTHROUGHS TO OPTIMIZE THEIR SOLUTIONS
TO YOUR APPLICATION CHALLENGES. THAT'S
"CROSS-FUNCTIONAL ENGINEERING."

THE KEY? RESPONSIVENESS. OUR PEOPLE IN THE
FIELD LISTEN TO WHAT CUSTOMERS AND CUSTOMER
REPRESENTATIVES ARE SAYING, SO OUR ENGINEERS

CAN DESIGN MACHINES THAT DELIVER STATE-OF-THE-ART
PERFORMANCE. THAT'S WHY THERE'S A PATRIOT
SPRAYER THAT PRECISELY FITS YOUR NEEDS — WE
DESIGNED IT TO DO JUST THAT.



PATRIOT 4420

CAB-FORWARD DESIGN PLUS FEATURES THAT ARE WAY OUT IN FRONT

You're looking at the top-of-the-line in self-propelled sprayers. The Patriot 4420 is the perfect machine for custom applicators and large acreage operations. It has unmatched performance and productivity, plus it offers state-of-the-art spray technology. The 4420 can be equipped with standard, high-flow or low-flow plumbing options. Add the optional AIM Command™ spray system for the ultimate in application and drift control.



▲ **The service center** has been simplified for more efficient operation. "Operator friendly" means an easy-access stainless steel eductor with rinse system that lowers to waist level, then stores conveniently out of the way.

With the cab out front and the engine in the rear, operators can listen to the stereo as if they were in an air-conditioned living room. Because the static weight of the machine is over the front and rear axles and the dynamic weight of the product tank is in the center of the machine, there is a 50/50 weight distribution when the tank is full and the booms are out, and a minimal weight transfer as the machine unloads. Case IH designs its large displacement engines to provide longer life and higher torque. The 4420's engine cooling capacity and final drive size have been increased to match the engine's higher horsepower

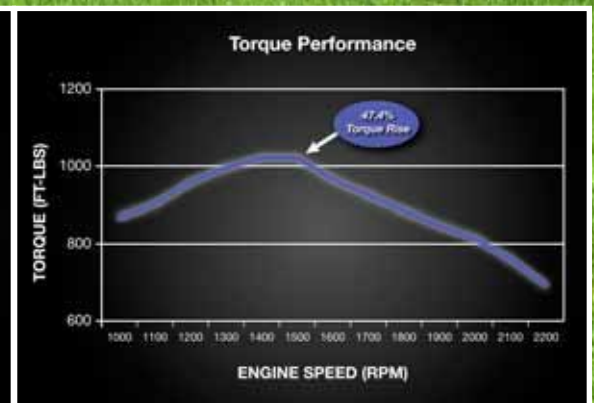
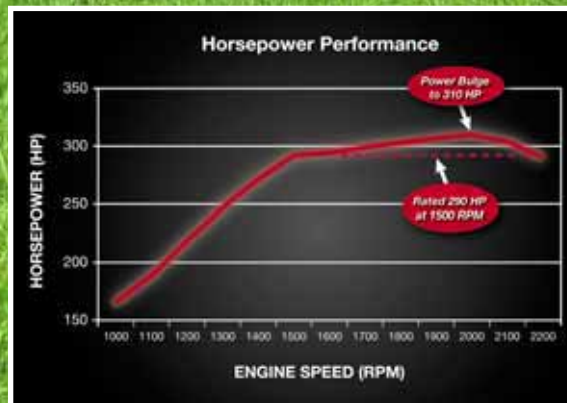
and torque capability. The components in the 4420's hydrostatic drive package are designed for efficiency, reliability, and ease of service. And its 30 mph transport speed gets you to the field and back quickly.

The Patriot 4420 features a streamlined frame, strut, and steering design for even longer life. Out in the field, the 4420's trailing-link suspension and rigid frame provide better traction, reduced component stress and a smoother ride for the boom and the operator. That's important when both the operator and the machine have to work long hours while staying productive.





▲ The 4420 features a “clam-shell” engine enclosure for easier service accessibility. A service walkway extends the length of the machine allowing easy access to all service points.



▲ Here’s a high-tech, electronically controlled 8.3-liter engine that delivers 290 rated hp (310 peak) with excellent fuel economy, long service life, 1,020 ft-lbs of torque at 1,500 rpm, and 47.4% torque rise.

PATRIOT 3320

A SPRAYER DESIGNED YOUR WAY

Case IH proudly introduces the next generation of mid-sized Patriot sprayer - the Patriot 3320. Customer input and advanced technology resulted in a long list of industry-leading features. The 3320 builds on the strengths of the Patriot product line and incorporates innovative new features designed to improve efficiency, reliability and operator comfort.

The Case IH 6.7 liter electronically controlled engine is rated at 235 Hp @ 2200 rpm with a peak horsepower rating of 240 Hp @ 2000 rpm to pull you through soft ground and hilly conditions. An all new hydrostatic propel system uses variable displacement hydraulic pumps and variable displacement axial piston wheel

motors. The 3320 sprayer uses a hydrostatic drive circuit that features the same parallel, cross-flow design common to other Patriot sprayer models. With the engine in the rear, the cab in the front, and the product tank in the middle, the 3320 provides optimum weight distribution for reduced field rutting and earlier field access.

With 109.5 cu. ft. of interior space and 68.5 sq. ft. of tinted glass, the Surveyor cab provides excellent roominess, visibility and comfort. The Optima™ air ride seat offers numerous adjustments to provide the perfect fit. All routine controls are mounted on the right-hand console which is attached directly to the

seat and moves with the operator. A very quiet decibel rating of 71 dBA is due, in part, to the rear-mounted engine design.

The trailing-link suspension design handles both vertical and horizontal field loads. This suspension system, coupled with the long, 150-in. wheelbase, provides for a superior ride, even in the roughest field conditions. Even with this long wheelbase, the turning radius is kept to a tight 23 ft. 3 in.

Both rugged and durable, the parallel link style boom is the same as the one found on the larger Patriot 4420. The new EZ-Fold boom control is standard on the



3320, allowing you to fold or unfold both the left- and right-hand inner and outer booms simultaneously with the touch of a single switch.



▲ An innovative cone-shaped 1,000-gallon product tank allows for improved rearward visibility giving the operator an increased field of view to monitor boom position and nozzle spray pattern.



▲ A mid-ship mounted service center brings all necessary tending functions to a convenient, operator-friendly location.



PATRIOT 3185 AND 3150

THE SCRAPPY PERFORMERS: A PERFECT BALANCE OF POWER AND PRECISION

The Patriot 3185 and 3150 are designed to serve where field accessibility and high productivity are paramount. The 3185 features a powerful 185 horsepower Case IH engine, while the 3150 powerplant delivers 152 horsepower. Both deliver a rated horsepower matched to the machine weight for longer engine life, greater fuel economy, and optimum field performance. And talk about a low gross vehicle weight (GVW) to reduce field compaction: the Patriot 3185 weighs almost a full ton less than some of its

comparable competitors, and the Patriot 3150 shaves off another 1,000 pounds. Add the AIM Command™ option to the 3185 and transform it into the ultimate profit-generating spraying machine.

The 3185 and 3150 share some important features with their big brothers. For instance, both can be equipped with the optional active suspension. All Patriot sprayers include user-friendly features that make maintenance fast and simple to

keep you in the field and rolling. In fact, it's just a few steps from the cab to reach all the necessary daily maintenance functions.

Case IH cab designs are way out in front of the industry. The common-sense control layout, comfortable seating, and commanding field of view contribute to a machine that lets the operator work longer with less fatigue.



▼ Whether you choose the 185-hp or 152-hp version, the Case IH engine provides long service life and great fuel economy.



▲ Operator comfort is key to keeping operators in the sprayer for longer hours with less fatigue. Precision spraying features, like the AIM Command spray system, enhance your ability to generate better profits.



▲ These sprayers are light enough to load on a tender trailer for easy transportation, and powerful enough to deliver a solid day's work.



▲ A lightweight, sturdy 750-gallon spherical tank features the strength and durability of polyethylene resin. A 750-gallon stainless steel, elliptical tank is also available on the Patriot 3185.

When low soil compaction, agile performance, field accessibility and high productivity are essential, the 3185 and 3150 have the features to make it all happen. That includes independent 4-wheel trailing-link suspension, self-centering booms, simple

from-the-cab wheel track adjustment, and tough welded frame construction. Either one of these powerful performers will provide a long, productive working life.

AIM COMMAND™

THE NEXT GENERATION IN SPRAY TECHNOLOGY

The AIM Command spray system takes spray technology to a new level. Simply put, AIM Command now provides the operator with independent pressure control. This is the most subtle, yet profound change in application technology today. It gives the applicator the ability to meet today's growing agronomic and economic challenges of greater productivity with better environmental stewardship.

The AIM Command computer uses the sprayer's servo valve or product pump to maintain constant pressure at the boom. The AIM Command computer automatically adjusts the pulse width of a solenoid at the nozzle body to manage flow. This ensures a constant application rate at a specific, constant pressure.

AIM Command results in better coverage in every acre of the field because a constant boom pressure and droplet size can be maintained within a 3 to 24 mph speed range. This eliminates under- or over-application of chemical in the corners and at the end rows. AIM Command can also provide better drift management as the operator can toggle between two pre-set pressures and manage droplet size according to field geography and weather conditions, without changing tips, speed or rate. This results in spraying more hours per day and more days per spraying season. AIM Command also provides total operator control over the spraying application with improved efficiency and machine productivity. Because the operator can drive according to field conditions

without being limited by pressure deviation, the average field speed can increase typically by one to three miles per hour and in some cases even more.

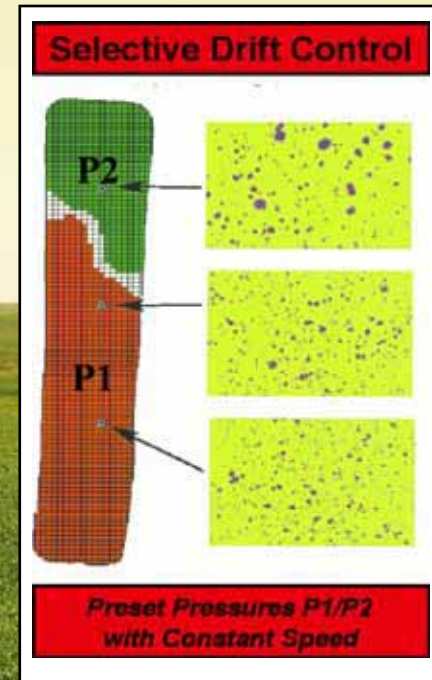
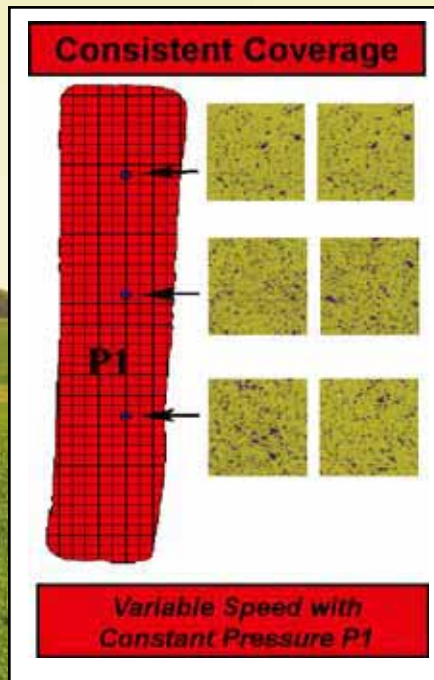
Accuracy in spray application affects your bottom line. That's where the optional AIM Command spray system comes in. By creating independent control of the speed, pressure and flow application variables, AIM Command is able to increase the production potential and reduce the cost per acre of a standard sprayer. No other sprayers offer this feature.



▲ **With the AIM Command spray system** and the Wilger Combo-Rate nozzle bodies, the operator can switch between the AIM Command system and conventional spraying. This gives the operator an option to easily switch between applying pesticides and applying liquid fertilizer.

▲ **Three switches put true application right at your fingertips**, allowing the operator to control the spraying characteristics. The first switch selects between the AIM Command system and conventional spraying. The second switch increases or decreases the pressure setting and the third switch allows the operator to select one of the two preset pressures.

▲ **The AIM Command computer module** works with the rate controller to manage a constant GPA rate by regulating the flow rate at each nozzle with a solenoid valve that opens and closes 10 times a second. At the same time, it maintains a constant preset pressure through managing the pump speed in concert with the solenoid valves.



▲ **Consistent coverage over the ENTIRE field** is possible only when chemical is applied with both the "right number" of droplets (constant rate) and the "right size" of droplets (constant pressure) independent of any change in sprayer speed.

▲ **Pressure through a particular tip at a particular speed** dictates the droplet size spectrum and drift potential. Selective pressure control means drift control when and where you need it.

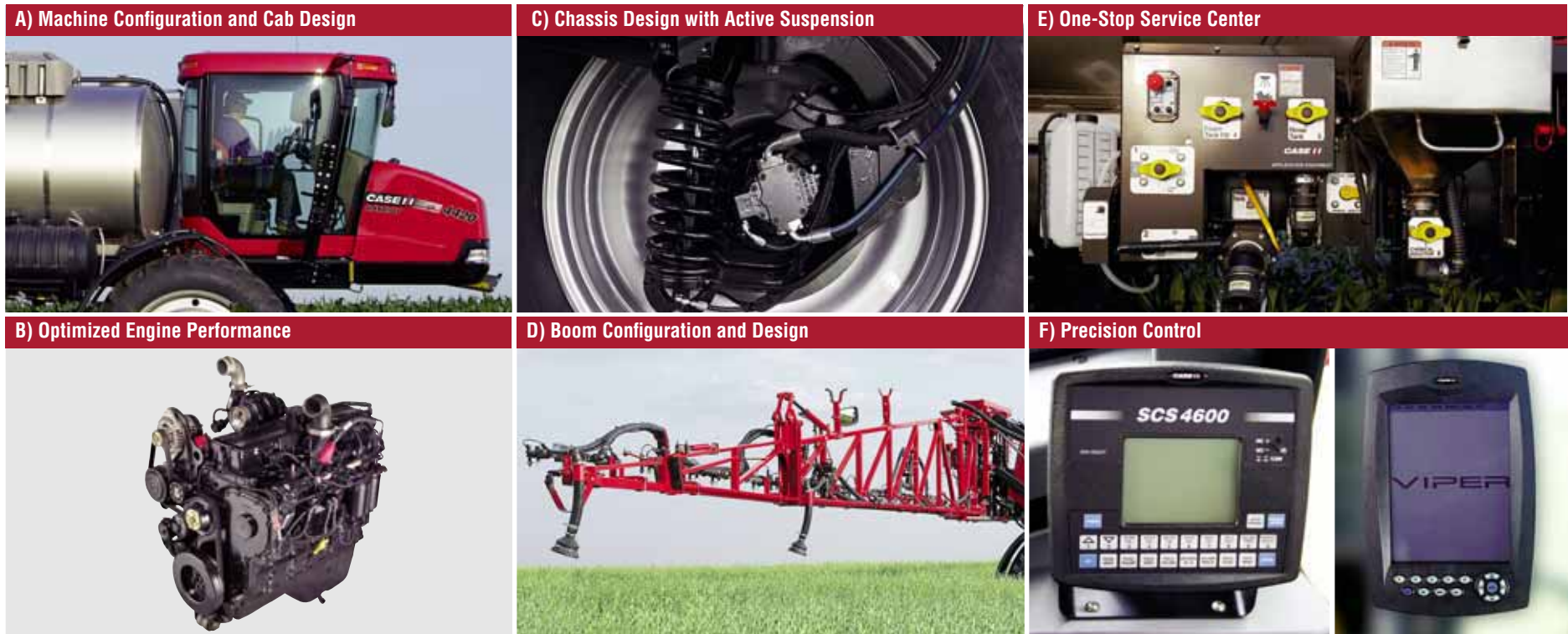
HIGH PRODUCTIVITY FEATURES

CRANK UP PRODUCTIVITY WITH TOMORROW'S TECHNOLOGY

Case IH engineering can make great machines even better with productivity-enhancing options. Everything from tank size, boom width, tire size and advanced technology options can be optimized for your specific operation. There are many industry-leading features that bring you the innovations of tomorrow ... today.



▼ Every Case IH sprayer provides advantages you just can't get anywhere else.



- A)** The cab-forward and rear-engine configuration on most of the Patriot sprayers balance machine weight and provide the operator with a cool, quiet operating environment. All Patriot sprayers are ergonomically designed to make the workday efficient, productive and comfortable. Here's your employee retention plan.
- B)** How do you provide longer service and better resale value? Our engineers match engine displacement and horsepower rating to optimize engine life and performance. For our customers, that means plenty of power and a longer service life.
- C)** A chassis designed for maximum strength with minimum weight means the ability to go more places sooner with fewer ruts and less soil compaction. Only the Case IH low deflection chassis and high deflection suspension can react to the total variety of loads experienced in today's field applications. It is truly the only chassis capable of "high speeds" and a "soft ride."

This advanced design not only provides a smooth ride for the operator but also isolates critical components, like the boom, from shock loads and exaggerated motion. With the optional active suspension, a Patriot sprayer becomes an aggressive hill climber even with a full load.

- D)** An advanced boom and boom suspension design provides superior strength without excessive weight, "floats" across a field at any speed and stubbornly refuses to put a tip into the ground even in high speed turns. Flow rates from 5 to 60 gallons per acre at 15 mph give you the ability to precisely apply crop protection and liquid fertilizer in record time. And changing nozzle tips is a breeze thanks to the Wilger Combo-Rate nozzles.
- E)** The service centers provide a one-stop command center where the operator can manage all aspects of the sprayer operation. There is no need to climb over or under the machine when tending. Service centers are easily

accessed from ground level and place all valves and levers within easy reach. An optional chemical eductor with a rinse system stores out of the way and lowers to waist level for easy access.

- F)** The Patriot 4420 and 3320 can be equipped with either the Case IH SCS 4600 or the Case IH Viper rate controller. The Case IH SCS 4600 controller provides a quick visual check of critical spraying functions, such as boom and sparge pressure readings, and a boom section switch position that allows the operator to focus attention on the field ahead. The Case IH Viper controller is a touch-screen interface that displays boom status, application rate and pressure readings on a highly visible 10.4 inch screen. The Viper can be used as a stand-alone rate controller and becomes an integral part of guidance or mapping systems.

PATRIOT SPRAYERS

Specifications	Patriot 4420	Patriot 3320
Engine*	8.3 L (505 cu. in.) Case IH inline 6-cylinder, 290 rated hp (216 kW), 310 peak hp (231 kW), 1,020 ft.-lbs. (1383 N-m) peak torque, turbocharged, after-cooled, electronically controlled diesel	6.7 L (409 cu. in.) Case IH inline 6-cylinder, 235 rated hp (175 kW), 240 peak hp (179 kW), 752 ft.-lbs. (1020 N-m) peak torque, turbocharged, after-cooled, electronically controlled diesel
Drive	Hydrostatic with full-time 4-wheel drive. Infinitely variable speed control returns wheel motor swash plates to maximum angle each time hydro lever is returned to neutral. Allows maximum torque for each start.	Hydrostatic with full-time 4-wheel drive. Infinitely variable speed control returns wheel motor swash plates to maximum angle each time hydro lever is returned to neutral. Allows maximum torque for each start.
Wheel Track Adjustment	120 - 157 in. (305-399 cm) hydraulically adjusted from the cab, with manual stops at 1 in. (2.54 cm) increments per wheel	120-157 in. (305-399 cm) hydraulically adjusted from the cab, with manual stops at 1 in. (2.5 cm) increments per wheel
Travel Speed	30 mph (48 kph)	30 mph (48 kph)
Dry Weight	90/100 ft. – 25,060 lbs. (11 367 kg)/120 ft. – 25,940 lbs. (11 766 kg)	23,400 lbs. (10 614 kg)
Solution-Tank Size	1,200 gal. (4542 L) stainless steel	1,000 gal. (3785 L) stainless steel
Nozzle Spacing	20 in. (50 cm) off-center or 20-30 in. (50-76 cm) with 30 in. (76 cm) on-center	20 in. (50 cm) off-center or 20-30 in. (50-76 cm) with 30 in. (76 cm) on-center
Overall Length	27.75 ft. (8.5 m)	27.75 ft. (8.5 m)
Overall Height	12 ft. (3.7 m)	12 ft. (3.7 m)
Overall Width	Wheels retracted 11.5 ft. (3.5 m); Wheels extended 14.6 ft. (4.5 m)	Wheels retracted 11.5 ft. (3.5 m); Wheels extended 14.6 ft. (4.5 m)
Wheelbase	12.5 ft. (3.8 m)	12.5 ft. (3.8 m)
Tire Size	Available with 380/90 R46 or 320/90 R46 or 650/65 R38	Available with 520/85 R38 or 320/90 R46 or 380/85 R46 or 650/65 R38
Ground Clearance	53 in. (135 cm) with full tank	52 in. (132 cm)
Turning Radius	23 ft. 3 in. (7.1 m) from center line of rear axle	23 ft. 3 in. (7.1 m) from center line of rear axle
Boom Length	60/90 ft. (18.3/27.4 m), 60/100 ft. (18.3/30.5 m), or 60/90/120 ft. (18.3/27.4/36.5 m) self-centering	60/90 ft. (18.3/27.4 m) or 60/100 ft. (18.3/30.5 m) self-centering
Boom Adjustment Height	19-84 in. (48-213 cm)	19-84 in. (48-213 cm)
Full Boom Breakaway	30 degrees	30 degrees
Wingtip Breakaway	90 ft. – 5.5 ft. (1.7 m)/100 ft. – 10.5 ft. (3.2 m)/120 ft. – 9 ft. (2.7 m)	90 ft. – 5.5 ft. (1.7 m)/100 ft. – 10.5 ft. (3.2 m)
Suspension	4-wheel independent trailing-link with spring and shock standard; active suspension optional	4-wheel independent trailing-link with spring and shock standard; active suspension optional
Steering	Hydraulic power steering with master/slave rephasing cylinders	Hydraulic power steering with master/slave re-phasing cylinders
Fuel Tank	140 gal. (530 L)	120 gal. (454 L)
Sprayer Control	Case IH SCS 4600 or Case IH Viper	Case IH SCS 4600 or Case IH Viper
Product Pump	Centrifugal-hydraulic motor driven by product control system	Centrifugal-hydraulic motor driven by product control system
Foam Marker	55 gal. (208 L) high-volume foam marker system. Air supply taken from turbocharger standard, or engine-driven air compressor optional.	55 gal. (208 L) high-volume foam marker system. Air supply taken from turbocharger standard, or engine-driven air compressor optional.
Rinse Tank	70 gal. (265 L)	112 gal. (424 L)

* Case IH engine manufactured by CDC or Iveco.

Patriot 3185	Patriot 3150
5.9 L (359 cu. in.) Case IH inline 6-cylinder, 185 rated hp (138 kW), 550 ft.-lbs. peak torque (745.7 N·m), turbocharged, after-cooled diesel	5.9 L (359 cu. in.) Case IH inline 6-cylinder, 152 rated hp (113.4 kW), 414 ft.-lbs. (561.3 N·m) peak torque, turbocharged diesel
Hydrostatic with full-time 4 wheel drive. Three speed ranges can be shifted on the go.	Hydrostatic with full-time 4 wheel drive. Three speed ranges can be shifted on the go.
120 - 152 in. (305-386 cm) hydraulically adjusted from the cab, with manual stops at 2 in. (5.08 cm) increments	120 - 152 in. (305-386 cm) hydraulically adjusted from the cab, with manual stops at 2 in. (5.08 cm) increments
27 mph (43 kph)	25 mph (40 kph)
17,256 lbs. (7827 kg)	15,700 lbs. (7121 kg)
750 gal. (2838 L) spherical poly or elliptical stainless steel	750 gal. (2838 L) spherical poly
20 in. (50 cm)	20 in. (50 cm)
20.6 ft. (6.3 m) – 75 ft. (22.9 m) boom or 26.5 ft. (8.1 m) – 90 ft. (27.4 m) boom	20.6 ft. (6.3 m) – 75 ft. (22.9 m) boom or 26.5 ft. (8.1 m) – 90 ft. (27.4 m) boom
11.5 ft. (3.5 m) or 12.3 ft. (3.7 m) w/high clearance option	10.8 ft (3.3 m)
Wheels retracted 11.5 ft. (3.5 m); Wheels extended 14.2 ft. (4.3 m)	Wheels retracted 11.5 ft. (3.5 m); Wheels extended 14.2 ft. (4.3 m)
10 ft. (3 m)	10 ft. (3 m)
Available with 320/90 R42	Available with 320/85 R38
50 in. (127 cm) or 58 in. (147 cm) w/high clearance option	48 in. (122 cm)
22.5 ft (6.9 m)	22.5 ft. (6.9 m)
75 ft. (22.9 m) or 90 ft (27.4 m) self-centering	75 ft. (22.9 m) or 90 ft. (27.4 m) self-centering
30-70 in. (76-178 cm) or 40-80 in. (102-203 cm) w/high clearance option	20-60 in. (50-152 cm), 30-70 in. (76-178 cm) optional
10 degrees	10 degrees
6 ft. (1.8 m)	6 ft. (1.8 m)
4-wheel independent trailing-link with spring and shock standard; active suspension optional	4-wheel independent trailing-link with spring and shock standard; active suspension optional
Hydraulic power steering	Hydraulic power steering
71 gal. (268 L)	71 gal. (268 L)
Raven 460	Raven 460
Centrifugal-hydraulic motor driven with electric cab control	Centrifugal-hydraulic motor driven with electric cab control
35 gal. (132 L) high-volume turbo foam marker system	35 gal. (132 L) high-volume electric foam marker system
35 gal. (132 L)	35 gal. (132 L)





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SAFETY NEVER HURTS!™ Always read the Operator's Manual before operating 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.

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