

GUARDIAN™ SELF-PROPELLED FRONT BOOM SPRAYERS

SP310F | SP370F | SP410F



Efficient high-clearance spraying. Ultimate comfort.

With a New Holland Guardian™ sprayer you can spray later into the growing season, easily maneuver at the headlands, and make on-the-go adjustments quickly and easily — all from the comfort of a cab specifically designed for the Guardian sprayer. **The ground-breaking Guardian™ front boom sprayers** from New Holland combines rugged construction with innovative design to save you time and make you more productive all season long.

Never look back

Guardian front boom sprayers are the easiest way to spray. With the boom in front, you get the very best view of the spray nozzles and the field ahead to confidently cover ground faster. Try the new Guardian front boom sprayers and **NEVER LOOK BACK.**



GUARDIAN

Guardian™ Front Boom Sprayers

Models		SP310F	SP370F	SP410F
Engine, Tier 4B		FPT NEF 6, 6.7-Liter	FPT Cursor 9, 8.7-liter	FPT Cursor 9, 8.7-liter
Horsepower	hp (kW)	285 (212)	328 (244)	382 (284)
With Power Bulge	hp (kW)	310 (231)	369 (275)	412 (307)
Tank size	gal. (l)	1000 (3785) Poly or Stainless Steel 1200 (4542) Stainless Steel	1400 or 1600 (5300 or 6057) Stainless Steel	
Standard booms	ft. (m)	90, 100, 120, 132 and 135 (27, 30, 37, 40 and 41)		
IntelliSpray™ booms	ft. (m)	90, 100, 120, 132 and 135 (27.4, 30.5, 36.6, 40.2 and 41.1)		
Spray-Air booms	ft. (m)	90, 100 and 120 (27.4, 30.5 and 36.6)		

Scan to see the advantages of 76 inches of crop clearance in tall corn.



Late-season Application

The high crop clearance of the Guardian sprayer makes it ideal for late-season applications including fungicides, Y Drop nitrogen application or nitrogen injection using a Toolbar.



Effortless planetary drive

The planetary drive system is electronically controlled and provides a long list of outstanding features such as full-time traction control, cruise control, anti-stall, integrated speed limiting and four driver-programmable speed settings. Add to that a 35-mph road speed for the SP310F (32-mph for the SP370F and SP410F) with four-wheel dynamic braking, and you have an effortless system to operate.



Increased torque and improved fuel economy

Turbocharged and after-cooled engines from FPT Industrial deliver high torque rise for added power when you need it. They are EGR-free, electronically controlled, meet Tier 4B standards and serviced by New Holland dealers. Since the engine is mounted in the rear, Guardian sprayers offer ideal weight distribution, and you get better access and a quieter ride.

Cooling system

Variable speed driven cooling fan only run as fast as needed. This permits systems to reach operating temperature more quickly, saves horsepower and fuel while reducing noise. Single-pass cooling system improves overall efficiency and provides cooler air flow.

Optional reversing engine cooling fan

Optional reversing fan system operates automatically and keeps debris off the cooling cores and intake screens – available on all models.

A new way of guarding your investment — the Guardian™ SP310F.

When you enter the **Guardian™ SP310F** front boom sprayer, you step into the next level of spraying innovation.

The ultra-quiet cab is specifically designed to maximize an operator's comfort, visibility, control and overall convenience.

Variable speed cooling fan runs only as fast as it needs to, saving horsepower and fuel while reducing noise around the sprayer. Single-Pass cooling offers better efficiency and cooler air flow. Optional reversing fan system keeps debris off the cooling cores and intake screens.

A larger field of view provides unmatched visibility of your spraying operation.

Auto Fold booms allow the operator to unfold or fold the boom with the touch of one button. In addition, IntelliSpray™ pressure-based product control systems can be included with various boom configuration options, allowing even greater sprayer application precision.

Two- and four-wheel-steer options as on the large-frame 370 and 410 models

Highest ground clearance on the market – up to 78 inches of crop clearance allows for later-season applications. Under-body clearance can be adjusted in-cab and on the go to provide added flexibility to match various crop conditions. For truck transport, you can also easily lower the overall height to 153 inches (12.75 ft.) from the operator's seat.

Fixed axle option is available



Scan to watch the Guardian SP310F sprayer in action.



Engine and hydraulic service checkpoints are easy to access from the walkway by the engine compartment.

Even weight distribution provides an ideal balance, with near equal load on each tire, to maximize power to the ground while minimizing compaction.

Adjustable height suspension provides between 72 to 78 inches of crop clearance for late-season applications.

An electronically controlled suspension system makes what was already a great riding sprayer even better.

Maintain a constant spray height between the spray nozzles and target with the innovative, radar-based IntelliHeight™ XRT boom-height control system.

The factory-installed chemical injection option allows for use of a combination of up to three chemical injection pumps and four separate, dedicated mid-mount chemical tanks that are easy to access from the platform. When used in conjunction with water in the main tank, you can vary chemical application across the field by prescription.

Auto rinse allows you to clean out the tank and boom with the press of a button while in the cab or by using the ground level display.



Additional features improve your productivity:

- **Hypro product pumps** provide exceptional performance. Choose from either a 210 or 300-gpm capacity. The 300-gpm pump features ForceSeal™ technology that provides for longer dry run time protection.
- **Wide open style lift arms** allow for a clear view of the spray boom, nozzles and the field or road in front of you.
- **A light foot print** means less soil compaction and a good horsepower to weight ratio.
- **Exceptionally tight turning radius** of 13.5 feet on the SP310F model with optional four-wheel steer provides excellent maneuverability. Four-wheel steer enables front-to-rear track following for reduced crop damage at headlands.
- **Standard boom blowout system** allows for quick transition between products.
- **Handy removable sealed toolbox** for convenient storage of protective equipment or additional parts.

Protect more acres per hour with SP370F and SP410F Guardian™ sprayers.

Guardian™ SP370F and SP410F front boom sprayers

Guardian front boom sprayers allow you to cover ground faster to maximize acres sprayed per hour. They offer large tank sizes combined with high horsepower and an industry-leading smooth ride to maximize application efficiency.

Up to 412 horsepower

Guardian large-frame sprayers are powered by an FPT 8.7-liter engine delivering increased torque with outstanding fuel economy, reducing overall operating costs. The SP370F is rated at 328 (up to a 369 hp bulge) and the SP410F is rated at 382 horsepower (up to a 412 horsepower bulge).

More efficient product flow

Hypro product pumps and an efficient plumbing system are designed to allow for an optimal flow of product to the boom. You can choose between a 210 or 300-gpm capacity. The 300-gpm pump features ForceSeal™ technology that provides for longer dry run time protection.

Smooth speed changes, full-time traction control

Count on the proven hydrostatic drive system for smooth power to the wheels and a wide range of speeds to match your needs. Electronically controlled, the system features full-time traction and cruise control, anti-stall and anti-engine overspeed, all of which automatically engage when needed.



Scan to watch the Guardian SP370F sprayer in action.



Two-wheel or four-wheel steer

Choose a Guardian™ SP370F or SP410F with two-wheel steering or the added maneuverability of the four-wheel steer option. With the four-wheel-steer option engaged, the rear wheels follow the front wheels for less crop damage and a reduced 15-foot turning radius – the same small turn radius achieved with the two-wheel-steer chassis. When the four-wheel-steer chassis is in two-wheel steer mode, it turns at 21 feet.

Comfort zone

The state-of-the-art Guardian™ cab offers roomy comfort, extreme quiet and clear convenient controls that make long days feel shorter. Your view from the cab is unmatched for operating ease and confidence that is refreshing.

More than 6 feet of clearance for late-season work

A clearance up to 76 inches (193 cm) allows you to work late in the growing season. For truck transport, the two-position suspension allows you to easily lower overall height to 153 inches (12.75 ft.) from the operator's seat.



The benchmark for spraying comfort.

Quiet, comfortable control

Step into the spacious, operator friendly cab and long days will melt away. The wide air-ride seat ensures every operator stays comfortable even after extended spraying hours. Details like foot pegs on the steering column, auto climate control, Bluetooth and XM radio, color rear-view camera, push-button engine start, backlit dimmable switches and optional electric mirrors add up to major comfort. The multi-function handle puts all critical controls at your fingertips, while the armrest console moves with you.

Panoramic visibility

You'll appreciate the expansive field of view and the full width of the spray boom. Designed with over 69 square feet of glass, the cab features a full height windshield and large wrap-around side windows. Plus, the rear windows have been darkened to shade you from long days in the sun. LED lights are standard equipment for top-of-the-line visibility that keeps you spraying when conditions are right to work late.



Make adjustments conveniently right from the cab

The Guardian™ sprayer control systems give you fingertip command of all the spraying and chassis functions from the convenience of the operator seat. You can operate the standard rinse system or optional Auto Rinse system from the cab or on the ground.



Stay refreshed on the hottest days

The Automatic Temperature Control (ATC) system comes as standard equipment. With the Luxury cab option a refreshing drink is only an arm's length away with the integrated fridge located under the instructor seat.

Luxury cab option includes a heated and vented Grammer leather trimmed seat with self-adjusting air suspension, height adjustment and power lumbar, leather trimmed instructional seat, a 12-volt fridge under the instructional seat, leather-wrapped steering wheel, auto on/off headlights, a spring-loaded RAM® X-Grip® cell phone holder and 110-volt power outlet.



Integrated solutions increase control and productivity.

For maximum precision and control, choose from two factory-installed field computers, the proven IntelliView™ IV and Raven Viper® +4 systems with guidance. Alternatively, you can purchase a Trimble system through CNH Industrial Parts and have it installed by your New Holland dealer.

IntelliView™ IV system

The IntelliView™ IV monitor lets you control key equipment functions and control precision applications such as auto-guidance and as-applied mapping—all with your fingertips. In standard operational layout the screen is divided into four main areas:

- The top bar allows the operator to access operation settings.
- The run screens are located on the bottom bar and are customizable and always accessible.
- The main part of the screen is composed of the user-selected run screens, which show key parameters related to the task at hand.
- The left-hand side is another user definable window, which contains primary operating parameters such as fuel rate and slip.



The **spray info bar** with light-up section display is mounted to the ceiling and lets you know which product circuit and steering systems are operating.



Information on the go:

- A **right-hand console chassis monitor**, mounted on an adjustable swing arm, lets operators control many functions of the sprayer and select what is displayed on the monitoring screen.
- A **headliner chassis monitor** continually displays operating functions of the chassis, including speed, rpm, pressures, temperatures and fuel level. It is mounted on the ceiling where it does not obscure the operator's line of sight to the spray boom.



Right-hand console chassis monitor



Headliner chassis monitor

See behind you

A standard back-up camera automatically activates when you put the sprayer in reverse, letting you see traffic behind you during transport.

Constant spray pressure

The optional IntelliSpray™ pulse width modulation (PWM) system maintains a constant pressure at the spray tips to ensure a proper droplet size at varying spraying speeds. The system also includes turn compensation, variable rate on up to eight nozzles, and instant on/off. Boom nozzles are divided into 36 virtual sections, or you can take the next step and unlock the individual nozzle control, which requires a Raven Viper 4+ field computer.



Hands-free turns

The IntelliTurn™ system, which is available as an option with the IntelliView™ IV monitor, makes hands-free, end-of-row turns easy. Use IntelliTurn to make headland and radius turns to match any boundary. The system engages on the next guidance line automatically. Alternatively, you can opt for the Raven Viper® +4 system, which offers "Auto Turn" capability for easier, hands-free turns.



Scan for a look at the one-click convenience of IntelliTurn™.



Boom options up to 135 feet to cover ground fast.

Guardian™ front boom sprayers are available with a full range of boom options. You have the choice of three MonoBeam booms, 90, 100 and 120 feet, or three truss booms widths of 120, 132 or 135 feet. All booms can be upgraded to the New Holland IntelliSpray system for increased spray control. You can also choose our exclusive top of the line SPRAY-AIR® boom in widths of 90, 100 or 120 feet.

IntelliHeight™ XRT boom height control system

The Guardian sprayer features the IntelliHeight™ XRT boom, a state-of-the-art, radar-based, boom-height control system. The system maintains a constant spray height between the spray nozzles and the target. The IntelliHeight XRT system is equipped with three radar sensors for 90- or 100-ft. booms. For hilly terrain, two additional sensors can be added. Five sensors are standard for 120-, 132- and 135-ft. booms. You can set the IntelliHeight XRT system for either ground or canopy modes to increase height-control accuracy. Radar sensors can be “tucked in” so they’re out of harm’s way.

SPRAY-AIR® boom

For crops demanding maximum spray coverage and crop canopy penetration, choose a Spray-Air® boom available in widths of 90, 100 or 120 feet. No other application technology can measure up to the total plant coverage from the Spray-Air™ nozzle. The air nozzle blasts the spray droplets deep into the crop canopy, ensuring complete top-to-bottom leaf surface coverage. Because of the smaller controlled droplets and directed air blast, the air nozzle allows for a very efficient use of water, often in the range of 2 to 5 gallons per acre for herbicides, and generally from 5 to 10 gallons per acre with fungicides.



See Auto Fold in action.





One touch Auto Fold

Your new Guardian sprayer features a one touch Auto Fold system that allows the operator to unfold or fold the spray boom with the touch of a button. When unfolding the spray boom, the system will automatically go to an operator preset spray height.



New Holland Guardian™ Injection Toolbar

Guardian sprayers can also be configured with the Injection Toolbar system to deliver precise injection of fertilizer into the soil root zone, where your crop needs it most.

Wet line drain kit

With a compact design a ball valve is located at the end of every boom section for easy draining and cleaning of the spray booms.



Top Service™ support makes downtime obsolete.

When you're working under tight timelines and tough conditions, keeping your equipment running is vital. New Holland's Top Service™ program fights downtime by providing the parts and service you need in the shortest amount of time possible.

Uptime Support for fast assistance

The Top Service program uses the entire CNH Industrial network of parts depots, manufacturing plants and suppliers to find the fastest solution. Dedicated logistics and resourcing teams work to get you the part or service you need fast. An Uptime Support request is the highest priority request type offered by CNH Industrial. After your dealer places a request, the Top Service team goes to work to find the best and quickest solution.

Expedited solutions

With Uptime Support, normal logistical barriers are eliminated. Get expedited solutions from your dealer with features including:

- No order entry cut-off time
- No shipment size limitations
- No minimum or maximum order requirements



NEW HOLLAND GUARDIAN™ FRONT BOOM SPRAYER SPECIFICATIONS

Model		SP310F	SP370F	SP410F
Deluxe Cab		<ul style="list-style-type: none"> • Ultra Quiet ISO mount cab • 2-way tilt/telescope steering wheel with foot pegs • Cloth air ride seat, with folding instructional seat • Sun visor • Variable speed pressurization, charcoal filtration, Automatic Temperature Control 	<ul style="list-style-type: none"> • AM/FM/WX, Bluetooth, XM, 4 speakers and remote controls • Touch Screen monitor • 2nd screen to monitor primary functions • Adjustable field computer and chassis monitor placement • Rear view camera and ambiance ceiling lighting 	
Luxury Cab		All Deluxe Cab features PLUS: <ul style="list-style-type: none"> • Self-adjusting leather grammer seat with air-ride suspension (heated and ventilated with power lumbar) • Leather instructional seat • Leather wrap steering wheel 	<ul style="list-style-type: none"> • X-Grip for cell phone • Auto on/off head lights • 110-volt power outlet • 12-volt fridge under instructional seat 	
Engine		FPT / NEF 6 / 6.7 L / Tier 4B	FPT Cursor 9 / 8.7 L / Tier 4B	
Horsepower	hp (kw)	285 [212] / 310 [231] Bulge	328 [244] / 369 [275] Bulge	382 [284] / 412 [307] Bulge
Fuel Tank / DEF Tank	gal. (L)	150 [568] / 24 [91]	150 [568] / 24 [91]	150 [568] / 24 [91]
Cooling System		Efficient Single Pass stacked top to bottom, hydraulically driven variable speed fan with reverse option		
Alternator / Batteries		240 amp with 3 - 1000 cca heavy-duty batteries		
Transmission		Hydrostatic drive with electronic controlled single Danfoss 165 cc, H1 series heavy-duty pump	Hydrostatic drive with electronic controlled Danfoss H1 series heavy-duty twin 130 cc pumps	Hydrostatic drive with electronic controlled Danfoss H1 series heavy-duty twin 147 cc pumps
Final Drives		Danfoss H 1 Series 80 cc drive motors with Oerlikon Fairfield Torque Hub gearbox final drives (CO24 series)	Danfoss H 1 Series 110 cc drive motors with Oerlikon Fairfield Torque Hub gearbox final drives (CO26 series)	Danfoss H 1 Series 110 cc drive motors with Oerlikon Fairfield Torque Hub gearbox final drives (CO26 series)
Speed Range	mph (kph)	4 User set speed ranges: 0 - 35 [0-56]	4 User set speed ranges: 0 - 32 [0 - 51]	4 User set speed ranges: 0 - 32 [0 - 51]
Steering		Hydrostatic with heavy-duty ball joints	Hydrostatic / 2 cylinders with no tie rods	Hydrostatic / 2 cylinders with no tie rods
Turning Radius 2 wheel steer model	ft. (m)	18 [5.48]	15 [4.57]	15 [4.57]
Turning Radius 4 wheel steer model	ft. (m)	In 2 wheel steer mode - 18 [5.48] In 4 wheel steer mode - 13.5 [4.1]	In 2 wheel steer mode - 21 [6.40] In 4 wheel steer mode - 15 [4.57]	In 2 wheel steer mode - 21 [6.40] In 4 wheel steer mode - 15 [4.57]
Tread Width Based on 380 tires	in. (cm)	Fixed width - 120 [304.8] or Auto Adjust - 120 - 160 [304.8 - 406.4]	120 to 160 [304.8 to 406.4] Moves equal on each side	120 to 160 [304.8 to 406.4] Moves equal on each side
Suspension	in. (cm)	4 wheel hydraulic independent with accumulators, full suspension travel of 20 [51]. automatic hydraulic leveling with ground pressure sensing	4 wheel hydraulic independent with accumulators, full suspension travel of 20 [51]. Optional suspension lowering from in cab.	4 wheel hydraulic independent with accumulators, full suspension travel of 20 [51]. Optional suspension lowering from in cab.
Crop Clearance	in. (cm)	Variable height 72 - 78 [182.88 - 198.12]	74 [187.96] or 76 [193.04]	74 [187.96] or 76 [193.04]
Product Tank Options	gal. (L)	1000 [3785] Poly or Stainless Steel 1200 [4542] Stainless Steel	1400 [5300] / 1600 [6056] Stainless Steel	1400 [5300] / 1600 [6056] Stainless Steel
Chemical Injection Available with 1000 gallon (3785 L) tank only		Up to 3 chemical injection pumps and 200 gallons of chemical (4 tanks)	-	-
Rinse System		Standard electric controls or optional Auto Rinse 150 gal. [568 L] poly tank with 2 in. [5.08 cm] fill connection		
Product Pump (choice of)	gpm (L/min)	Hypro 9306C / Up to 210 [795] at the pump or optional Hypro 9307CWS Up to 300 [1173] at the pump with ForceField seal technology		
Auto Fold Boom		●	●	●
IntelliHeight XRT Boom Height Control		○	○	○
MonoBeam Boom, ft.		90/60, 100/60, 120/70	90/60, 100/60, 120/70	90/60, 100/60, 120/70
Truss Boom, ft.		120/73, 132/73, 135/73	120/73, 132/73, 135/73	120/73, 132/73, 135/73
Lift Arm Travel	in. (cm)	100 [254]	96 [243.84]	96 [243.84]
Nozzle Bodies (Non Spray-Air)		5 way, 3+1, IntelliSpray	5 way, 3+1, IntelliSpray	5 way, 3+1, IntelliSpray
Dimensions (Shipping):				
Height	in. (cm)	153 [388.6]	154 [391]	154 [391]
Width MonoBeam	in. (cm)	163 [414]	145 [368]	145 [368]
Width Truss	in. (cm)	183 [464.8]	173 [439.42]	173 [439.42]

● Standard ○ Optional - Not available



VALUE, SERVICE AND SOLUTIONS

There's a certain way of thinking that comes from living on a farm. Farming takes equal parts brain and brawn. Not to mention thick skin, calloused hands and a fair share of know how. Seasoned farmers know it helps to have equipment that's built by farmers, sold by farmers and used by farmers.

Support at every step. When you place your confidence in New Holland agricultural equipment, you get the finest in local support. Your New Holland dealer understands the many challenges you face and stands behind you at every step with the equipment, parts, service and financial solutions to make your job easier. Look to New Holland for a complete selection of equipment, including a full line of tractors, hay & forage equipment, harvesting, crop production and material handling equipment.

Quality parts and service. Turn to your New Holland dealer after the sale for expert, factory-trained service and genuine New Holland-branded parts. Your dealer has the very latest service updates and training to ensure your equipment keeps working productively season after season.

Financing solutions. Your New Holland dealer can tell you about smart ways to turn your financial challenges into opportunities with a portfolio of innovative financial services available through CNH Industrial Capital, including customized financing, leasing, insurance and the purchasing convenience of a Commercial Revolving Account.

For reliable equipment, parts and service — or just honest advice on farming and finance — turn to New Holland and your trusted New Holland dealer. We know. We're farmers, too.



We are proud to support the FFA.

Learn more at www.newholland.com

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Safety begins with a thorough understanding of the equipment. Always make sure you and your operators read the Operator's Manual before using the equipment. Pay close attention to all safety and operating decals and never operate machinery without all shields, protective devices and structures in place.