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 new 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™ 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 or 1200 (3785 or 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)		



Whether you prefer nitrogen placement with a dual tube application system or soil injection, we have the right tool for the job.

NutraBoss fertilizer placement system

Accurate dual fertilizer application that saves time and minimizes costs. Apply Nitrogen with NutraBoss, an easy-on, easy-off, lightweight and flexible solution that meets all your late-stage Nitrogen application needs.





New Holland Guardian™ Injection Toolbar

The Injection Toolbar delivers precise injection of fertilizer into the soil root zone, where your crop needs it most.

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

FPT turbocharged and aftercooled engines deliver up to 412 peak horsepower and provide 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 better weight distribution, and you get better access and a quieter ride. Variable speed driven cooling fans only run as fast as needed. This permits systems to reach operating temperature more quickly, and saves horsepower and fuel while reducing noise.

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 designed expressly for the Guardian front boom sprayers offer operators maximum comfort, maximum view, control and convenience.

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

Boom width options up to 135 feet! Choose from MonoBeam booms up to 120 feet, truss booms up to 135 feet, IntelliSpray-ready booms up to 135 feet, and our exclusive SPRAY-AIR® boom up to 120 feet wide.



Highest ground clearance on the market – up to 78 inches to allow for late-season application. You can adjust under-body clearance on the go from the seat to adapt to changing needs. For truck transport, you can easily lower the overall height down to 153 inches (12.75 ft.) from the operator's seat.



A redesigned chassis provides up to 78-inches of clearance for late season applications.

A redesigned suspension system makes what was already a great riding sprayer even better.

The factory-installed chemical injection option allows for use of a combination of up to three chemical injection pumps and four separate 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.

Automated 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.
- **Redesigned lift arm**s allow for a clear view of the nozzles and field in front of you.
- **Lighter than previous models** means less soil compaction and a better horsepower-to-weight-ratio.
- **Tight turning radius** for excellent maneuverability.
- **Four-wheel steer** option enables front to rear track following for reduced crop damage at headlands. When engaged, it gives you an exceptionally short 13.5-foot turning radius on the SP310F model.
- **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 allow you to cover ground faster to maximize acres sprayed per hour. They offer the highest horsepower, large tank sizes and the smoothest ride for the most efficient spraying. It's easy to understand how Guardian front boom sprayers help you achieve a new level of spraying freedom and productivity.

Up to 410 horsepower with power bulge

Guardian large-frame sprayers are powered by 328- and 382-horsepower engines from FPT Industrial that deliver up to 410 horsepower with power bulge. These engines provide increased torque with improved fuel efficiency to reduce your operating costs.

More efficient product flow

Plumbing changes have increased product flow capacity for maximum efficiency. Hypro product pumps provide more efficient product flow and 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.

Smooth speed changes and traction control

You'll experience smooth hydro handle operation and smooth speed changes thanks to an improved hydrostatic drive system that delivers smooth changes to the planetary wheel drive motors. A traction control switch gives you added control in poor conditions.



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 new benchmark for spraying comfort.

Quiet, comfortable control

Step into the spacious, newly designed cab and long days will melt away. The wide air-ride seat ensures every operator stays comfortable even after extended spraying hours. Details like footpegs on the steering column, auto climate control, Bluetooth and XM radio, push-button engine start and backlit, dimmable switches, 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 view of the field 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.

Luxury cab option includes a heated and vented Grammer leather trimmed seat with self-adjusting air suspension, height adjustment and power lumbar, a 12-volt fridge under the instructional seat, leather-wrapped steering wheel, rear camera, auto on/off headlights, integrated self-charging flash light and 110-volt power outlet.



Stay refreshed on the hottest days

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



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. The SP310F even allows you to change crop clearance from 72 to 78 inches from the cab.

Next-level monitoring systems provide information on the go.

- **A right hand console chassis monitor,** mounted on an adjustable swing arm, is where 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 disrupt the operator's line of sight to the spray boom.
- **The ultra-wide 10.4-inch IntelliView™ IV color touchscreen display or Raven Viper 4+** is mounted to a swing arm so operators can position it exactly where they want it.

Right hand console chassis monitor



Headliner chassis monitor





IntelliView™ IV color touchscreen display



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.

Boom options up to 135 feet to cover ground fast.

Guardian™ front boom sprayers are available with a full range of boom options. Choose from MonoBeam booms up to 120 feet, truss booms up to 135 feet, IntelliSpray booms up to 135 feet, and our exclusive SPRAY-AIR® boom up to 120 feet wide.



High-strength MonoBeam construction

Choose a 90-, 100-, or 120-foot-wide MonoBeam to cover your acreage in a hurry. Guardian rugged MonoBeam booms are constructed from high-strength steel. The boom suspension absorbs the shock of uneven field conditions, giving you better stability and flotation. You can be assured that the boom stays level to the ground for an accurate spray rate even over tough terrain. These features allow you to work at higher speeds while achieving consistent product application. For smooth and level automatic boom height control, all Guardians can be equipped with the optional Raven AutoBoom® UltraGlide system.

Truss booms

In addition to the rugged MonoBeam boom options, front boom Guardian™ sprayers can also be configured with truss-style booms in 120-, 132- and 135-foot widths.

INTELLISPRAY

IntelliSpray™ nozzle control system

The 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. The boom nozzles are divided into 36 virtual sections, or you can take the next step and unlock the individual nozzle control. Individual nozzle control requires a Raven Viper 4+ field computer.



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.

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.

NEW HOLLAND GUARDIAN™ FRONT BOOM SPRAYER SPECIFICATIONS

Model	SP310F	SP370F	SP410F
Deluxe Cab	• 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	• AM/FM/WX with CD, Bluetooth, XM, 4 speakers and remote controls • Touch Screen monitor • 2nd screen to monitor primary functions • Adjustable field computer and chassis monitor placement • Ambiance ceiling lighting	
Luxury Cab	**All Deluxe Cab features PLUS:** • Self-adjusting leather grammer seat with air-ride suspension (heated and ventilated with power lumbar) • Leather instructional seat • Leather wrap steering wheel	• X-Grip for cell phone • Rear view camera • Auto on/off head lights • Integrated flash light and 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	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	200 amp with 3 – 1000 cca heavy-duty batteries	200 amp with 3 – 1000 cca heavy-duty batteries	200 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 (CO17 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) / 1200 (4542) Stainless Steel	1200 (4542) / 1400 (5300) / 1600 (6056) Stainless Steel	1200 (4542) / 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 Hypro 9307CWS Up to 300 (1173) at the pump with ForceField seal technology		
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)	3 way, 5 way, 3+1, IntelliSpray	3 way, 5 way, 3+1, IntelliSpray	3 way, 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)

– 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/na**

Design, materials and/or specifications are subject to change without notice and without liability therefor. Specifications are applicable to units sold in Canada, the United States, its territories and possessions, and may vary outside these areas.

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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.

NH36145414 • 0818 • OTP • PRINTED IN U.S.A.