

John Deere & Hagie Application

Self-Propelled Sprayers and Floaters



NO ONE BRINGS IT ALL TOGETHER LIKE JOHN DEERE



Application quality. Integrated precision ag components. Remote support. When it comes to nurturing and protecting your fields from weeds, diseases, and insects, no one brings it all together like John Deere. Providing consistent applications with minimal waste, our new sprayers have you covered. And we're giving you more comfort with new improvements to our cabs to make long days spraying seem shorter.



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INTEGRATED INTELLIGENCE

Gain confidence in a quality application with our new integrated lineup of precision ag components. Starting with the intuitive G5^{Plus} CommandCenter™ Display, you can ensure the right drops are reaching the right crops and make on-the-go adjustments to improve spraying accuracy. View more of your operation at once by adding a second run screen with an Extended Monitor option¹.

Our new sprayers now come with an integrated StarFire™ 7500 receiver with SF-RTK for long-term repeatability up to 2.5 cm accuracy. And with AutoTrac™ RowSense™, AutoTrac Vision, and AutoPath™, you can operate at higher speeds, along full-field guidance lines, and enable the sprayer to follow the actual planted crop row for a quality application. Both AutoTrac™ systems are compatible with 20-and 40-in. (51-and 102-cm) corn, cotton, and soybean rows.

With JDLink connectivity², John Deere sprayers can stream machine and field data to John Deere Operations Center™ anytime, anyplace. Simply turn on JDLink service in your Operations Center account.



¹. Extended display may not be immediately available. Talk with your John Deere dealer for details.

². Some additional accessories and/or components may be required. JDLink requires a cellular connection to transfer information from machine to John Deere Operations Center™ website. See your John Deere dealer for coverage availability.



Reduce overlap and minimize skips while ensuring precise placement of crop protectants and nutrients with John Deere Section Control. The optional ExactApply™ nozzle control system has up to 30 hertz pulsing frequency and A-B nozzle control to help maintain droplet size, control solution target rate, and reduce input costs by 2 to 5%.³

3. *Factory study comparing chemical usage between sprayers equipped with and without the ExactApply™ nozzle-control system. ExactApply™ is an optional feature and can reduce chemical usage from 2 to 5%. Individual results may vary.*

SEE IT.

TARGET IT.

SPRAY IT.

See & Spray Select, See & Spray Premium, and See & Spray Ultimate reduce herbicide use by targeting individual weeds through advanced camera vision and machine learning.

For fallow fields, nothing target sprays weeds like See and Spray Select. By only spraying weeds, farmers can save on average 77% in herbicides¹. Maximum efficiency on every pass.

Get the perfect sprayer solution for your operation with See & Spray Premium. Available on MY18 and newer R-series and 400/600 series, existing sprayers and select new John Deere and Hagie Sprayers. See & Spray Premium is a single-tank-only system that turn your sprayer into a targeted weed killer, so you can save more than 50% on non-residual herbicide use.²

And for the ultimate in-season weed management, there's See & Spray Ultimate. Combine the force of two sprayers into one, with the ability to broadcast and target spray at the same time with its dual-product system. It's a target spray system that distinguishes corn, soybean, and cotton crops from weeds, and then selectively target sprays only the weeds. It's shown to reduce non-residual herbicide use by more than two-thirds, while delivering a hit rate comparable to traditional broadcast spraying³.

Available on certain John Deere 400 & 600 and new Hagie sprayers— See & Spray technology is revolutionizing how farmers can manage weeds to improve yields, cost efficiencies, and profitability.

	SEE & SPRAY SELECT	SEE & SPRAY PREMIUM	SEE & SPRAY ULTIMATE
Fallow Use	●	●	●
In-Season Use	○	●	●
Traditional Broadcast Spray Application	●	●	●
Targeted Spray Application	●	●	●
Single Tank	●	●	○
Dual-Product Solution/Split Tank	○	○	●



1. Based on tank-level sensor values taken at a steady state on John Deere sprayers equipped with and without See & Spray Select, before and after covering 75,000 acres of fallow ground with a typical weed pressure of 3,000 weeds per acre, using small and medium spray-length settings starting at 2.3 to 3.2 ft. (0.7 to 1 m) and average growing conditions (seasonal precipitation and temperature) across the US and Canadian plains and Australian farms. Spray-length settings varied based on ground speed, spray pressure, and boom height. Sprayers were equipped with current hardware and software at time of study. Individual results may vary based on field and growing conditions, weed pressure, spray-length settings, and software version 2. Results based on internal John Deere strip trials in corn, soybeans, and cotton in Arkansas, Nebraska, and Texas, in typical growing conditions, with varying weed size, crop canopy, and field conditions, using targeted spray of non-residual herbicide only, and using current software/algorithim at time of trials. Results vary based on crop; for details see Deere.com/Premium. Individual results will vary. 3. Results based on internal John Deere trials. Results vary based on crop and individual results will vary. Learn more at JohnDeere.com/seeandspray.

DUAL-TANK SOLUTION SYSTEM

See & Spray Ultimate's unique dual-tank solution system combats herbicide resistance by using two independent tank mixes in a single pass, avoiding antagonism that occurs when certain inputs are combined. Choose between 1,000-gallon (3,785 L), 1,200-gallon (4,542 L), or a 1,600-gallon (6,057 L) total capacity.

TARGET AND BROADCAST SPRAY

When needed, See & Spray sprayers can switch from targeted to broadcast spraying at the push of a single button on the in-cab display.

SEE & SPRAY PREMIUM

See & Spray Premium is available as a Precision Upgrade to certain, existing machines⁴ or as a factory install. This lets you target spray weeds in corn, soybeans, cotton, or on fallow ground with the sprayer that fits your operation best.

CARBON FIBER BOOM

See & Spray Ultimate's carbon fiber, truss-style boom is strong and stable, ensuring you get uncompromised spray quality. And with BoomTrac™ Ultimate, you can keep the tip of the boom within 10 inches of your target boom height, 95% of the time. That gives you spray accuracy better than any other manufacturer⁵.

4. See & Spray Premium is available on MY18 and newer R-series and 400/600 series, existing sprayers and new John Deere and Hagie Sprayers.

5. Based on Iowa State University testing; scores represent composite data over a variety of terrains at factory-calibrated settings. Performance varies based on user-specified settings and adjustments. BoomTrac Ultimate tested on MY 2023 412R Sprayer with 36.6-m (120-ft) truss-style carbon fiber boom; NORAC installed on MY 2022 John Deere 4 Series Sprayer with 36.6-m (120-ft) steel boom; Raven AutoBoom XRT installed on MY 2022 John Deere 4 Series Sprayer with 36.6-m (120-ft) steel boom. Operated at 12mph and 30-in. boom height. Individual results will vary.



400 & 600 Sprayers

400 & 600 SERIES SPRAYERS



400 Series Sprayers

The 400 Series Sprayers offers integrated technology for an efficient quality application. A wide range of horsepower is available with options ranging from 280 to 326 hp (208.8 to 243 kW). Choose between three different tank options: 800 gallons (3,028 L), 1,000 gallons (3,785 L), or 1,200 gallons (4,542 L).

For dry spinner spreader applications, a 200 cu ft (5.6 cu m) dry box is offered.

600 Series Sprayers

Spend more time spraying and less time filling with our 600 Series Sprayers. Two tank options of 1,200 or 1,600 gallons (4,542 L or 6,057 L) are available. Add flotation tires to further reduce compaction so you can get in the field sooner and spray later. Offering two options at 355 or 375 hp (265 or 280 kW), these sprayers allow for faster acceleration with heavier loads than previous models.

For dry spinner spreader applications, a dry nutrient spinner spreader box is offered in either 200 or 300 cu ft (5.6 or 8.5 cu m) options.

PRESSURE RECIRCULATION/PRODUCT RECLAIM

The Pressure Recirculation pushes product through the sprayer booms with a 3-way valve, keeping solution from settling and delivering a consistent product to every nozzle. By pushing air through the sprayer lines, Product Reclaim pushes the solution back into the center feed tank.

BOOM OPTIONS

Choose from two different boom options on the 400 and 600 Series Sprayers. Offering Carbon Fiber or Steel, both options are available with BoomTrac™ Pro 2 for enhanced spraying accuracy by maintaining correct boom height. Compared with previous BoomTrac Pro, the boom height adjusts easily from 19 in. (0.5 m) up to 92 in. (2.3 m) and provides a 22% improvement in accuracy¹.

1. Based on Internal John Deere study compared to previous BoomTrac Pro.

LESS FATIGUE. GAIN COMFORT.

When the hours are long and the terrain is tough, you deserve all the comfort you can get. Stretch out your legs with our new foot rests and focus on the rows ahead. Two visibility packages, with our brighter exterior lighting, offer clear observation of your surroundings no matter the time of day. What's more, the CommandDrive™ powertrain provides traction control in challenging conditions, all at reduced decibels for a quieter ride.



SIGNATURE EDITION

The Signature Edition includes the Ultimate Comfort and Convenience Package, the Ultimate Visibility Package, ActiveSeat™ II, JDLink, integrated StarFire 7500 receiver with SF-RTK, G5^{Plus} CommandCenter Display and a G5 Advanced license.



NIGHTTIME DOESN'T MEAN SLOWING DOWN

Make the most of your time, no matter the time, with your choice of two Visibility Packages that can be mixed or matched with your choice of Comfort and Convenience Cab Packages. While lighting encompasses a large portion of the package, windshield wipers, mirrors and sunshades are also important to overall field visibility.





LIGHTING PACKAGES

PREMIUM

- 18 LED work lights
- Electric, heated exterior mirrors
- Front, right-hand, and rear window sunshades
- Front, right-hand, and rear window wipers

ULTIMATE

- 22 LED work lights, 8 LED service-point lights
- Electric, heated, telescoping exterior mirrors
- Front, right-hand, and rear window sunshades
- Front, right-hand, and rear window wipers

SPRAY IN PLACES OTHERS CAN'T

Smaller than its 4 Series siblings, the popular R4023 is designed to tackle tighter spaces, tricky turns, and odd-shaped fields. Wide or narrow axle options fit a wide range of row spacing needs. And its 90-ft (27.4 m) boom easily folds in to spray in tight turns. That's unmatched maneuverability.

But don't let its size fool you. This 600-gal (227 L) sprayer is big on intelligent technology. For fingertip control of key functions, we gave the R4023 a G5^{Plus} CommandCenter display and a sprayer-specific CommandARM™. Coupled with free JDLink™, the R4023 can help you precisely put the right inputs in the right places.



All-leather, heated and ventilated seat for all day comfort.
Optional Soft Shock suspension to smooth rough terrain. You
spend hours in here, so we went big on creating all-day comfort.





POWER-BOOSTING PERFORMANCE

To spray faster in harsher conditions, you need dependable power. Meet the Final Tier 4 diesel. Rated at 173 hp (129 kW), this 4.5L turbocharged engine delivers 5% more power than the previous model. And its power bulge increases power from 173 to 182 hp (136 kW) when the going gets tough.

CLEANER Fields BETTER Yields



Targeted Technology

We make it easy for you to benefit from having a connected sprayer in your operation. Hagie sprayers come equipped with the latest John Deere technologies, like ExactApply and Pressure Recirculation and Reclaim, so you can improve cost efficiencies, boost profitability and make data-driven decisions.

Spend more time spraying and less time filling with the new 2,000-gallon (7,571 L) solution tank on the Hagie STS20. Two other tank options of 1,200 gallons (4,542 L) and 1,600 gallons (6,057 L) are also available.

Built with the John Deere PowerTech™ 9.0L engine, the new Hagie lineup gives you the power you need to work efficiently, with 300 or 400 hp (223.7 to 298.2 kW) options.

HAGIE HYBRID BOOM OPTIONS

Hagie's front-mounted booms are designed to deliver performance, stability, and visibility. The booms are the first and foremost tool in accurate product placement. Hagie Hybrid booms, steel inner section and aluminum outer sections, are designed to offer the best of both worlds. Strength and agility in one package.

Hybrid booms are available in 90-, 100-, and 120-ft widths (27.43 m, 30.48 m, and 36.57 m) and can fold to 60 ft (18.28 m). Cover even more acres with the 132-ft (40.23-m) boom that folds to 70 ft (21.34 m).



THE CAB YOU DESERVE.

New cab. New seat. With all that's new on the Hagie STS sprayer, there's one thing that isn't – your ability to work in comfort all day. And with integrated John Deere precision technology – like a StarFire 7500 receiver, G5^{Plus} CommandCenter display, and free JDLink service¹ – you're ready to seamlessly stream data to your Operations Center account. See the chart below for the package that's right for you.

Comfort Packages

SELECT

Cloth seat with mechanical controls and lumbar support; 16° left-hand and 16° right-hand swivel

AM/FM/WX radio with auxiliary inputs and Bluetooth compatibility; 2 speakers

Business-band ready

4 USB ports and 12V outlet

Dual tilt steering column

ULTIMATE

Leather seat with electronic controls and pneumatic lumbar support; 16° left-hand and 16° right-hand swivel; heated and ventilated; massaging feature; adjustable bolsters

6.5-inch touchscreen app radio, smartphone and SiriusXM ready; 2 speakers with subwoofer

Business-band ready

4 USB ports and 12V outlet

Foot rests

Dual tilt steering column

Refrigerator

Electric-cinch door with remote opening



John Deere Operations Center™ PRO Dispatch provides an end-to-end fleet dispatching and logistics system. Tools in PRO Dispatch include the ability to send work order details directly to an in-cab connected John Deere display, save time so that more acres can be covered.



¹Some additional accessories and/or components may be required. JDLink requires a cellular connection to transfer information from machine to John Deere Operations Center™ website. See your John Deere Dealer for coverage availability.

LESS CHANGEOVER TIME.

Make the most out of each season with the 800R Floater. The chassis can be configured as either a dry spinner spreader, an air boom, or a liquid system. Featuring a common hydraulic implement pump, the changeover time to convert from a dry to liquid system has been cut in half¹, so you can get back to the field quicker.



DRY SPINNER SPREADER

The New Leader ISO user interface is fully integrated into the display for the G4 Edge and G5 boxes^b for easy navigation between sprayer settings and on-screen help functions. Simple-to-navigate setup menus allow you to control and track product placement with ease. Side-to-side swath width control, automated feed gate, and fan frame control, along with independent spinner monitoring are also available within the display.

The New Leader Dry Spinner Spreader is a 14-ft (4.27-m) box capable of holding 330 cu ft (9.34 cu m) of product and is available in multiple configurations.

¹Internal John Deere study comparing F4365 HCNA with 800R Floater. Individual results may vary.

MORE PRODUCTIVITY.



AIR BOOM



Increasing uptime is critical to profitability. The AB30 is designed to maximize uptime through improved performance and greater flexibility. Now fully integrated into the display, the AB30 offers a 300 cu ft (8.50 cu m) dry box with a 70 ft (21.3 m) Air Boom. Apply dual products at a maximum rate of 1,200, lbs/ac (1,345 kg/ha) at speeds up to 10 mph (16 km/h). By applying two products at variable rates, you need fewer passes to meet crop nutrient needs.

For customers seeking extended boom reach, our allied partnership with Salford offers expanded options with the AB320 (90'). These booms are orderable and installed by Salford approved dealerships.



LIQUID SYSTEM

Spend more time in the field spraying with the new 2000 gallons (7570.8 L) LS20 liquid system. Apply 80 gallons (302 L) per acre at speeds up to 25 mph (40.2 km/h) with a wide flow range of 5-385 gpm (18.9-1459 lpm). Base plumbing includes 15 in. turret spacing with optional 30 in. spacing for the nozzle bodies. And when you do run out of product, a faster fill time of 300 gpm (1,136 lpm) will get you back to the field sooner compared to previous models.

MORE SPACE FOR MORE PRODUCTIVITY.

As soon as you step through the 24% wider doorway, you'll notice the extra headroom, extra storage capacity, and extra USB ports. Choose between two cab packages with a touchscreen radio that's smartphone ready. The seat swivels 24° left and right so you can view job application from either direction. Footrests and a refrigerator are also included. Choose from two feature-packed options.

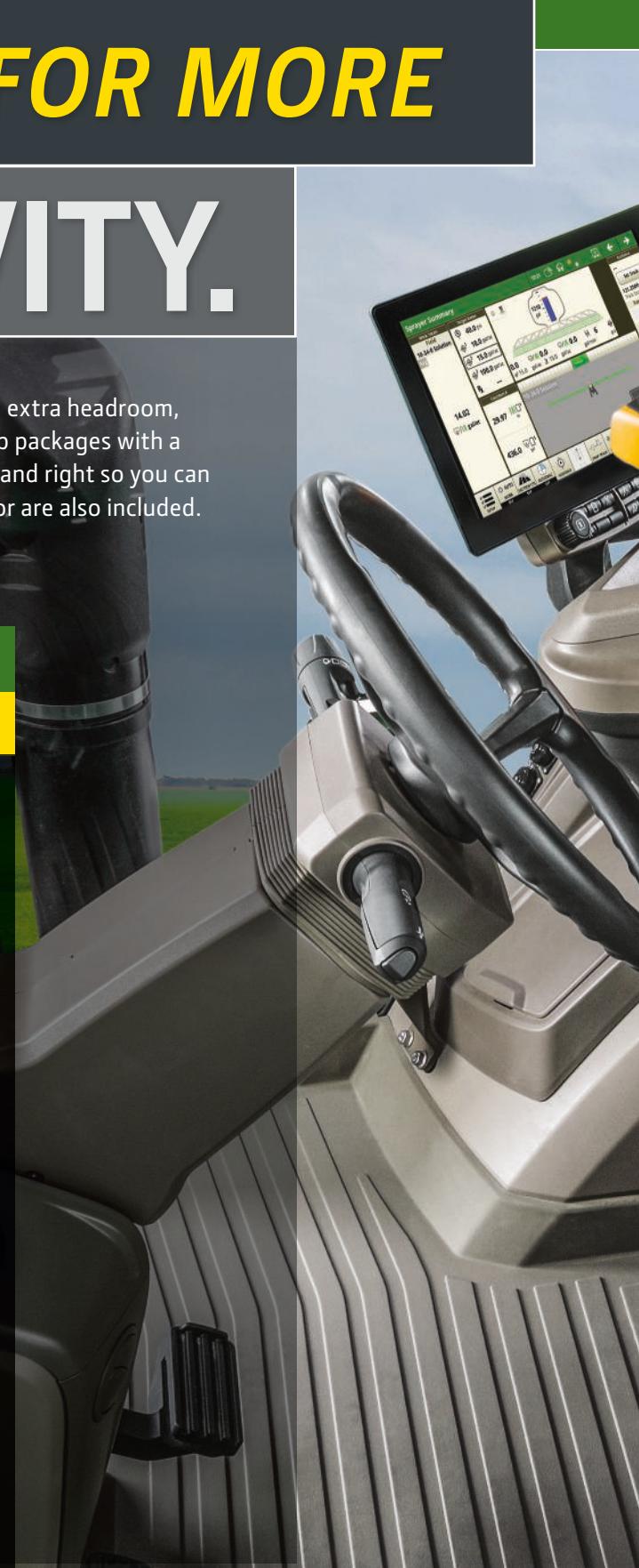
Visibility & Comfort Packages

PREMIUM

- Cloth seat with electronic controls and pneumatic lumbar support; 24° left-hand and 24° right-hand swivel
- 6.5-inch (16.5-cm) touchscreen radio, SiriusXM ready; 6 speakers with subwoofer
- Business-band ready
- 5 USB ports, 12V outlet
- Dual tilt steering column
- Foot rests
- Refrigerator
- Right-hand accessory rail
- 120V outlet

ULTIMATE

- Leather seat with electronic controls/massage and pneumatic lumbar support; 24° left-hand and 24° right-hand swivel; heated and ventilated; adjustable bolsters
- 6.5-inch (16.5-cm) touchscreen radio, SiriusXM ready; 6 speakers with subwoofer
- Business-band ready
- 5 USB ports, 12V outlet
- Dual tilt steering column
- Foot rests
- Refrigerator
- Right-hand accessory rail
- Carpeted floor mat
- ActiveSeat™ II
- Leather-wrapped steering wheel
- 120V outlet





SIGNATURE EDITION



The Signature Edition includes the Ultimate Comfort and Convenience Package, the Ultimate Visibility Package, ActiveSeat™ II, JDLink connectivity, integrated StarFire 7500 receiver with SF-RTK, Premium 3.0 or Automation 4.0 activation and a G5^{Plus} CommandCenter™ display with an Advanced License.

LEVEL UP YOUR

Want to unlock more productivity from your sprayer?

Ask your John Deere dealer about our Precision Upgrade Kits. They can help you identify the upgrade best for you and give you expert installation. Ask your dealer for more details.



See & Spray Premium

Cleaner fields leads to better yields. Turn your sprayer into a targeted weed-killer with the See & Spray Premium Precision Upgrade. Save on non-residual herbicide use and reduce tender stops, crop stress, and herbicide and water usage while improving yields. It can help you precisely manage weeds so you can improve cost efficiencies and boost profitability. Available as an upgrade to certain, existing machines³.

SPRAYER GAME



ExactApply

Ready to save 2-5% on herbicides and pesticides¹? Want to cover more acres in a shorter time? ExactApply features precise droplet sizing and consistent application management. With three times the pulsing frequency of competitive systems – and advanced A+B nozzle design – ExactApply maintains your target rate and pressure over a wider range of speeds. Your dealer can work with you to determine your machine's compatibility.



Pressure Recirculation/ Product Reclaim

Pressure Recirculation provides a continuous flow of product through the sprayer booms, preventing solution settling and ensuring uniform delivery to each nozzle. Product Reclaim directs air through the sprayer lines, efficiently returning the solution to the central feed tank. That saves you time during rinsing and boom prime or switching between products. And it can save up to 30 gallons (113.6 L) per boom prime post boom purge².

1. Internal comparison of ExactApply components with non-ExactApply components, based on field and growing conditions. Individual results may vary.

2. Assumes 113.6 L (30 gal.) of residual product in the system at 93.5 L/ha (10 gal./acre) and \$20 per acre 10 times per day. Adjust the calculation to suit your operation.

3. See & Spray Premium is available on MY18 and newer R-series and 400/600 series, existing sprayers and new John Deere and Hagie Sprayers

400 Series Specifications

	408R	410R	412R
ENGINE			
Make	John Deere	John Deere	John Deere
Rated engine power	280 hp (206 kW)	310 hp (231 kW)	326 hp (243 kW)
Maximum engine power	300 hp (224 kW)	330 hp (246 kW)	357 hp (266 kW)
Displacement	415 cu in. (6.8 L)	549 cu in. (9 L)	549 cu in. (9 L)
Fuel tank capacity	128.2 gal. (485.2 L)	149.2 gal. (565 L)	149.2 gal. (565 L)
SOLUTION SYSTEM			
Capacity, U.S. gallon (L)	800 gal. (3028 L)	1000 gal. (3800 L)	1200 gal. (3785.4 L)
Tank material	Stainless steel	Stainless steel	Stainless steel
Rinse tank capacity	120 gal. (454.2 L)	120 gal. (454 L)	170 gal. (646 L)
Quick Fill™ size	3 in. (7.6 cm)	3 in. (7.6 cm)	3 in. (7.6 cm)
Suction strainer	20 mesh	20 mesh	20 mesh
Pressure strainer	50 mesh	50 mesh	50 mesh
Boom strainer	80 mesh	80 mesh	80 mesh
BOOM			
Boom length options	60/90, 60/100, 72/120, or 72/132 ft (18.3/27.4, 18.3/30.5, 22/36.5, or 22/40 m)	90, 100, 120, or 132 ft (27.4, 30.4, 36.5, or 40 m)	90, 100, 120, or 132 ft (27.4, 30.5, 36.6, or 40 m)
Automatic boom height	BoomTrac™ Pro 2 - five sensor (optional)	BoomTrac™ Pro 2 - five sensor (optional)	BoomTrac™ Pro 2 - five sensor (optional)
Plumbing material	Stainless steel / Optional: Polyethylene	Stainless steel / Optional: Polyethylene	Stainless steel / Optional: Polyethylene
Boom material	Steel or carbon fiber	Steel or carbon fiber	Steel or carbon fiber
Ground height adjustment	19.6 to 96.5 in. (50 to 245 cm)	19.6 to 96.5 in. (50 to 245 cm)	19.6 to 96.5 in. (50 to 245 cm)
Breakaway width	Stainless steel boom: 10.8 ft (3.3 m) Carbon fiber boom: 12.1 ft (3.7 m)	Stainless steel boom: 10.8 ft (3.3 m) Carbon fiber boom: 12.1 ft (3.7 m)	Stainless steel boom: 10.8 ft (3.3 m) Carbon fiber boom: 12.1 ft (3.7 m)
Boom sections	13 sections with boom length: 132 ft (40.2 m) 11 sections with boom length: 120 ft (36.6 m) 9 sections with boom length: 100 ft (30.5 m) 7 sections with boom length: 90 ft (27.4 m)	13 sections with boom length: 132 ft (40.2 m) 11 sections with boom length: 120 ft (36.6 m) 9 sections with boom length: 100 ft (30.5 m) 7 sections with boom length: 90 ft (27.4 m)	13 sections with boom length: 132 ft (40.2 m) 11 sections with boom length: 120 ft (36.6 m) 9 sections with boom length: 100 ft (30.5 m) 7 sections with boom length: 90 ft (27.4 m)
Nozzle spacings	15 or 20 in. (38.1 or 50.8 cm)	15 or 20 in. (38.1 or 50.8 cm)	15 or 20 in. (38.1 or 50.8 cm)
DRIVETRAIN			
Type	Hydrostatic 4WD	Hydrostatic 4WD	Hydrostatic 4WD
Shifting	Electrohydraulic	Electrohydraulic	Electrohydraulic
Hydraulic reservoir capacity	26 gal. (98 L)	26 gal. (98.4 L)	26 gal. (98.4 L)
Spray speed range	0 to 20 mph (0 to 32.2 km/h)	0 to 25 mph (0 to 40.2 km/h)	0 to 25 mph (0 to 40.2 km/h)
Transport speed, maximum	30 mph (48.3 km/h)	35 mph (56.3 km/h)	35 mph (56.3 km/h)
CHASSIS			
Dry compatible	Yes: 200 cu ft (5.7 m)	Yes: 200 cu ft (5.7 m)	Yes: 200 cu ft (5.7 m)
Suspension	Dual-strut independent wheel air-ride suspension	Dual-strut independent wheel air-ride suspension	Dual-strut independent wheel air-ride suspension
Crop clearance with standard tires	60 in. (152 cm)	60 in. (152 cm)	60 in. (152 cm)
Turning radius	28.5 ft (8.7 m)	28.5 ft (8.7 m)	28.5 ft (8.7 m)
Parking brake	Spring-engaged, hydraulically disengaged wet disk pack	Spring-engaged, hydraulically disengaged wet disk pack	Spring-engaged, hydraulically disengaged wet disk pack
Total weight with 90-ft boom	28,318 lb (12,845 kg)	29,707 lb (13,475 kg)	31,335 lb (14,213 kg)
Total weight with 100-ft boom	28,495 lb (12,925 kg)	29,873 lb (13,550 kg)	31,438 lb (14,260 kg)
Total weight with 120-ft boom	29,068 lb (13,185 kg)	30,435 lb (13,805 kg)	31,800 lb (14,424.2 kg)
Total weight with carbon fiber boom	120 ft (36.6 m) boom: 27,963 lb (12,684 kg) 132 ft (40.2 m) boom: 28,084 lb (12,739 kg)	120 ft (36.6 m) boom: 29,330 lb (13,304 kg) 132 ft (40.2 m) boom: 29,451 lb (13,359 kg)	120 ft (36.6 m) boom: 30,594 lb (13,877.2 kg) 40.2 m (132 ft) boom: 30,678 lb (13,915.3 kg)
TIRES			
Front tires	320/90 R46, 380/90 R46, or 420/80 R46	320/90 R46, 380/90 R46, or 420/80 R46	320/90 R46, 380/90 R46, or 420/80 R46
Rear tires	320/90 R46, 380/90 R46 CFO, or 420/80 R46	320/90 R46, 380/90 R46 CFO, or 420/80 R46	320/90 R46, 380/90 R46 CFO, or 420/80 R46
Flotation tires	520/85R38 or 620/70R38 (field installed only)	520/85R38 or 620/70R38 (field installed only)	520/85R38 or 620/70R38 (field installed only)
OPTIONS			
Foam marker	Air injection foamer: 1.5 gal. (5.7 L)	Air injection foamer: 1.5 gal. (5.7 L)	Air injection foamer: 1.5 gal. (5.7 L)



	612R	616R
ENGINE		
Make	John Deere	John Deere
Rated engine power	355 hp (265 kW)	375 hp (280 kW)
Maximum engine power	388 hp (289 kW)	415 hp (309 kW)
Displacement	549 cu in. (9 L)	549 cu in. (9 L)
Fuel tank capacity	149.2 gal. (565 L)	149.2 gal. (565 L)
SOLUTION SYSTEM		
Capacity, U.S. gallon (l)	1200 gal. (4542 L)	1600 gal. (6057 L)
Tank material	Stainless steel	Stainless steel
Rinse tank capacity	170 gal. (646 L)	160 gal. (606 L)
Quick Fill™ size	3 in. (7.6 cm)	3 in. (7.6 cm)
Suction strainer	20 mesh	20 mesh
Pressure strainer	50 mesh	50 mesh
Boom strainer	80 mesh	80 mesh
BOOM		
Boom length options	90, 100, 120, or 132 ft (27.4, 30.4, 36.5, or 40 m)	Steel: 90, 100, or 120 ft (27.4, 30.5, or 36.6 m) Carbon: 120 or 132 ft (36.6 or 40.2 m)
Automatic boom height	BoomTrac™ Pro 2 - five sensor (optional)	BoomTrac™ Pro 2 - five sensor (optional)
Plumbing material	Stainless or polypropylene	Stainless or polypropylene
Boom Material	Steel or carbon fiber	Steel or carbon fiber
Ground height adjustment	19.6 to 96.5 in. (50 to 245 cm)	19.6 to 96.5 in. (50 to 245 cm)
Breakaway width	Stainless-steel boom: 10.8 ft (3.3 m) Carbon fiber boom: 12.1 ft (3.7 m)	Stainless-steel boom: 10.8 ft (3.3 m) Carbon fiber boom: 12.1 ft (3.7 m)
Boom sections	13 sections with boom length: 132 ft (40.2 m) 11 sections with boom length: 120 ft (36.6 m) 9 sections with boom length: 100 ft (30.5 m) 7 sections with boom length: 90 ft (27.4 m)	13 sections with boom length: 132 ft (40.2 m) 11 sections with boom length: 120 ft (36.6 m) 9 sections with boom length: 100 ft (30.5 m) 7 sections with boom length: 90 ft (27.4 m)
Nozzle spacings	15 or 20 in. (38.1 or 51 cm)	15 or 20 in. (38.1 or 51 cm)
DRIVETRAIN		
Type	Hydrostatic 4WD	Hydrostatic 4WD
Shifting	Electrohydraulic	Electrohydraulic
Hydraulic reservoir capacity	26 gal. (98 L)	26 gal. (98.4 L)
Spray speed range	0 to 25 mph (0 to 40.2 km/h)	0 to 25 mph (0 to 40.2 km/h)
Transport speed, maximum	35 mph (56.8 km/h)	35 mph (56.3 km/h)
CHASSIS		
Dry compatible	Yes: 200 or 300 cu ft (5.7 or 8.5 cu m)	Yes: 200 or 300 cu ft (5.7 or 8.5 cu m)
Suspension	Dual-strut independent wheel air-ride suspension	Dual-strut independent wheel air-ride suspension
Crop clearance with standard tires	58 in. (147 cm)	58 in. (147.3 cm)
Turning radius	30.2 ft (9.2 m)	30.2 ft (9.2 m)
Parking brake	Spring-engaged, hydraulically disengaged wet disk pack	Spring-engaged, hydraulically disengaged wet disk pack
Total weight with 90-ft boom	34,421 lb (15,613 kg)	36,017 lb (16,337 kg)
Total weight with 100-ft boom	34,593 lb (15,691 kg)	36,120 lb (16,384 kg)
Total weight with 120-ft boom	35,153 lb (15,945 kg)	36,482 lb (16,548 kg)
Total weight with carbon fiber boom	120 ft (36.6 m) boom: 34,048 lb (15,444 kg) 132 ft (40.2 m) boom: 34,169 lb (15,499 kg)	120 ft (36.6 m) boom: 35,276 lb (16,001 kg) 132 ft (40.2 m) boom: 35,360 lb (16,039 kg)
TIRES		
Front tires	380/105 R50, 420/95 R50, or 480/80 R50	380/105 R50, 420/95 R50, or 480/80 R50
Rear tires	380/105 R50, 420/95 R50, or 480/80 R50	380/105 R50, 420/95 R50, or 480/80 R50
Flotation tires	620/70 R46 or 800/55 R46	620/70 R46 or 800/55 R46
OPTIONS		
Foam marker	Air injection foamer	Air injection foamer



Hagie STS Specifications

	STS12	STS16	STS20
ENGINE			
Make	John Deere	John Deere	John Deere
Rated engine power	300 hp (223 kW)	400 hp (298 kW)	400 hp (298 kW)
Maximum engine power	330 hp (246 kW)	423 hp (315 kW)	423 hp (315 kW)
Displacement	549 cu in (9 L)	549 cu in (9 L)	549 cu in (9 L)
Fuel tank capacity	130 gal (492 L)	130 gal (492 L)	130 gal (492 L)
SOLUTION SYSTEM			
Capacity, U.S. gallon (L)	1200 gal (4400 L)	1600 gal (6056 L)	2000 gal (7570 L)
Tank material	Stainless steel	Stainless steel	Stainless steel
Rinse tank capacity	120 gal (454.2 L)	160 gal (378.5 L)	200 gal (757 L)
Quick Fill™ size	3 in. (7.6 cm)	3 in. (7.6 cm)	3 in. (7.6 cm)
Pressure strainer	50 mesh	50 mesh	50 mesh
Boom strainer	80 mesh	80 mesh	80 mesh
BOOM			
Boom length options	60/90, 60/100, 60/120, or 70/132 ft (18/27, 18/30, 18/36, or 21/40 m)	60/90, 60/100, 60/120, or 70/132 ft (18/27, 18/30, 18/36, or 21/40 m)	60/90, 60/100, 60/120, or 70/132 ft (18/27, 18/30, 18/36, or 21/40 m)
Automatic boom height	NORAC® UC7™ with Active Wing Roll (AWR)	NORAC® UC7™ with Active Wing Roll (AWR)	NORAC® UC7™ with Active Wing Roll (AWR)
Plumbing material	Stainless steel	Stainless steel	Stainless steel
Boom material	Hybrid steel and aluminum	Hybrid steel and aluminum	Hybrid steel and aluminum
Ground height adjustment	23 to 107 in. (58 to 272 cm)	23 to 107 in. (58 to 272 cm)	23 to 107 in. (58 to 272 cm)
Breakaway width	For 90-ft (27-m) booms: 5 ft (1.5 m) For 60/100 or 60/120 ft (18/30 or 18/36 m): 10 ft (3 m) For 132-ft (40-m) booms: 11 ft (3.3 m)	For 90-ft (27-m) booms: 5 ft (1.5 m) For 60/100 or 60/120 ft (18/30 or 18/36 m): 10 ft (3 m) For 132-ft (40-m) booms: 11 ft (3.3 m)	For 90-ft (27-m) booms: 5 ft (1.5 m) For 60/100 or 60/120 ft (18/30 or 18/36 m) booms: 10 ft (3 m) For 132-ft (40-m) booms: 11 ft (3.3 m)
Boom sections	On 90-ft (27-m) boom: 7 sections On 100-, 120-, and 132-ft (30-, 36-, and 40-m) booms: 9 sections	On 90-ft (27-m) boom: 7 sections On 100-, 120-, and 132-ft (30-, 36-, and 40-m) booms: 9 sections	On 90-ft (27-m) boom: 7 sections On 100-, 120-, and 132-ft (30-, 36-, and 40-m) booms: 9 sections
Nozzle spacings	15, 20 or 22 in. (38.1, 50.8 or 55.8 cm)	15, 20 or 22 in. (38.1, 50.8 or 55.8 cm)	15, 20 or 22 in. (38.1, 50.8 or 55.8 cm)
DRIVETRAIN			
Type	CommandDrive™ 4WD	CommandDrive™ 4WD	CommandDrive™ 4WD
Shifting	Infinitely variable - Operator programmable	Infinitely variable - Operator programmable	Infinitely variable - Operator programmable
Hydraulic reservoir capacity	30 gal. (113.5 L)	30 gal. (113.5 L)	30 gal. (113.5 L)
Spray speed range	0.5 to 25 mph (0.8 to 40 km/h)	0.5 to 25 mph (0.8 to 40 km/h)	0.5 to 25 mph (0.8 to 40 km/h)
Transport speed, maximum	35 mph (56 km/h)	35 mph (56 km/h)	35 mph (56 km/h)
CHASSIS			
Dry compatible	Montag® Fortifier	No	No
Suspension	Independent air-ride	Independent air-ride	Independent air-ride
Crop clearance with standard tires	74 in. (188 cm)	74 in. (188 cm)	74 in. (188 cm)
Turning radius	With all-wheel steer (AWS) on: 17.3 ft (5.3 m) With AWS off (center of outside tire): 25.6 ft (7.8 m)	With all-wheel steer (AWS) on: 18.9 ft (5.8 m) With AWS off (center of outside tire): 29.2 ft (8.9 m)	With all-wheel steer (AWS) on: 18.9 ft (5.8 m) With AWS off (center of outside tire): 29.2 ft (8.9 m)
Parking brake	Integrated in final drives	Integrated in final drives	Integrated in final drives
Total weight with 90-ft boom	31,600 lb (14,333.5 kg)	32,400 lb (14,696.4 kg)	33,000 lb (14,968.5 kg)
Total weight with 120-ft boom	31,500 lb (14,288 kg)	32,300 lb (14,651 kg)	32,900 lb (14,923 kg)
Total weight with 132-ft boom	31,900 lb (14,469 kg)	32,700 lb (14,832 kg)	33,300 lb (15,104 kg)
TIRES			
Front tires	VF320/105R54, VF380/90R54, VF380/105R50, VF420/95R50, VF480/80R50	VF320/105R54, VF380/90R54, VF380/105R50, VF420/95R50, VF480/80R50	VF380/90R54, VF380/105R50, VF420/95R50, VF480/80R50
Rear tires	VF320/105R54, VF380/90R54, VF380/105R50, VF420/95R50, VF480/80R50	VF320/105R54, VF380/90R54, VF380/105R50, VF420/95R50, VF480/80R50	VF380/90R54, VF380/105R50, VF420/95R50, VF480/80R50
Flotation tires	VF480/80R50, LSW710/65R46	VF480/80R50, LSW710/65R46	VF480/80R50, LSW710/65R46
OPTIONS			
Air compressor	Onboard air	Onboard air	Onboard air



800R	
ENGINE	
Make	John Deere
Peak rated power	365 hp (272 kW)
Power bulge	400 hp (298 kW)
Displacement	549 cu in. (9L)
Fuel tank capacity	155 gal. (586 L)
DRY SPINNER SPREADER - DS35	
Capacity	330 cu ft (9.34 cu m)
Box material	304 stainless steel
Spread width range	Optional: 409 painted stainless steel 60 to 90 ft (18.29 to 27.43 m) G4 Box - Single Spread Width
Box Technology	G4 Edge Box - Single Spread Width with Edge G5 Box - 16 section control
Box options	Single bin Optional: Two-bin MultiApplier insert Optional: Four-bin MultiBin insert
Conveyor	MultiApplier and MultiBin - belt-over stainless-steel chain
Oiler	Electric
AB30 AIR BOOM	
Box material	409 painted stainless steel
Box length	12 ft (3.66 m)
Capacity	300 cu ft (8.49 cu m)
Spread width	70 ft (21.3 m)
Automatic section control	John Deere Section Control
Box options	Two-bin capable of 50/50 or 60/40 split
Conveyor	Dual conveyors (left and right) with stainless-steel chain
Oiler	None
Gate height physical adjustable range	1-2.1 in. (2.5-5.3 cm)
Conveyor application rates	50-1200 lb per acre ² (56-1345 kg/ha)
Granular application rates	6-124 lb per acre ³ (6.7-139 kg/ha)
Volumetric flow rate	0-26.1 cu ft/min ⁴ (0.74 cu m/min)
LS20 Liquid System	
Flow Range	5 GPM to 385 GPM
Fill Pump Capacity	300 GPM
Boom Width	27.4-m (90 ft) Steel
Tank Capacity	
Solution Tank	Stainless Steel 7570.8-L (2000 gal) Solution Tank
Rinse Tank	Black Poly 757.1-L (200 gal) Rinse Tank
DRIVETRAIN	
Type	Two-wheel drive (2WD)
Spreading in field speed range	0 to 30 mph (0 to 48 km/h)
Transport speed range	0 to 46 mph (0 to 56.3 km/h)
CHASSIS	
Suspension	Four-wheel leaf spring and front axle dampers
Steering	Front wheel
Primary brakes	IVT and four-wheel pneumatic brakes
Parking brake	IVT and two-wheel (rear) Spring Applied Pneumatic Release
Turning radius	39 ft (10.5 m)
Empty weight with single bin	31,000 lb (14,061 kg)
TIRES	
Front tires	750/50R26, VF850/45R26
Rear tires	1050/50R32 tires

1. The gate is set from the factory at 3.8 cm (1.5 in.). It is not recommended to adjust the gate height below 3.8 cm (1.5 in.) as operators may experience conveyor performance issues such as belt stalling or it may affect rate accuracy.

2. Assuming 10-mph (16.1-km/h) vehicle speed, 65 lb/cu ft (1041.2 kg/m³) material, and 1.5-in. (3.8-cm) gate height. This also assumes CFR 0.2758.

Note: 1200 lb/acre (1345 kg/ha) is the maximum rate between all bins with the assumptions listed above. 50 lb/acre (56 kg/ha) is the minimum rate from a single bin (1 or 2) with the assumptions listed above.

3. Assuming a yellow metering roller, 10-mph (16.1-km/h) vehicle speed, and 65 lb/cu ft (1041.2 kg/m³) material. This also assumes a CFR of 0.0442.

4. Plugging of booms may occur if the sum of the flow rate of all bins is greater than spec. NOTE: To calculate the volumetric flow rate per bin:

volumetric flow rate (cu ft/min) = (rate (lb/acre) x speed (MPH) x 0.1414)/density (cu ft). Constant of 0.1414 assumes 70-ft (21.3-m) spreading width.

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