

# John Deere & Hagie Application

Self-Propelled Sprayers and Floaters



JOHN DEERE





*John Deere and Hagie Self-Propelled Sprayers*

# 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 comforts 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 Generation 4 CommandCenter™, 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 option<sup>1</sup>.

Our new sprayers now come with an integrated StarFire™ 7000 receiver with SF-RTK for guaranteed repeatable accuracy. And with AutoTrac™ RowSense™ or AutoTrac™ Vision, you can operate at higher speeds and enable the sprayer to follow the actual planted crop row for a quality application. Both AutoTrac™ systems are compatible with 20- and 40-inch (51- and 102-cm) corn, cotton, and soybean rows.

And now that all John Deere sprayers come standard with JDLink™ connected service<sup>2</sup>, you can stream machine and field data to John Deere Operations Center™ anytime, anyplace. Simply turn on JDLink service in your Operations Center account.

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

<sup>2</sup> 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 design to help decrease overlap, improve efficiency, and reduce input costs by 2 to 5%<sup>2</sup>.

<sup>2</sup> 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 & Spray

# SEE IT. TARGET IT. SPRAY IT.

See & Spray Select 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 herbicides<sup>1</sup>. Maximum efficiency on every pass.

And for the ultimate in in-season weed management, there's See & Spray Ultimate. It's the only factory-installed 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 spraying<sup>2</sup>.

Available on select John Deere 400 and 600 Series Sprayers – See & Spray technology is revolutionizing how farmers can manage weeds to improve yields, cost efficiencies, and profitability.



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 Iowa, Mississippi, Texas, and Illinois, 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/algorithm at time of trials. Results vary based on crop; for details see [JohnDeere.com/SeeandSpray](http://JohnDeere.com/SeeandSpray). Weed-control results based on dual-tank operation, adding an additional herbicide that could not be added to an existing herbicide mix in a single tank. Individual results will vary.

3. 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 80-in. boom height. Individual results will vary.



## **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. Go with 1,000-gallon total capacity (3,785 L) or a 1,200-gallon (4,542 L) option.

## **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.

## **CARBON FIBER BOOM**

See & Spray Ultimate's carbon fiber 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 manufacturer<sup>3</sup>.





400 & 600 Sprayers

# 400 AND 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 m<sup>3</sup>) 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 355 or 375 (265 or 280 kW) horsepower options, 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 m<sup>3</sup>) options.







## **BOOM OPTIONS**

Gain Ground with 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 accuracy<sup>1</sup>.

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



400 & 600 Series Cab

# LOSE 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 7000 receiver with SF-RTK, Premium 3.0 or Automation 4.0 activation and a Generation 4 4600 CommandCenter™ display.







# 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.

## 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







R4023 SPRAYER

# 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 axel 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 10-inch GreenStar™ 4600 CommandCenter™ display and a sprayer-specific CommandARM™. Coupled with free JDLink™ and SprayStar™, 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 it's designed to increase power bulge from 173 to 182 hp (136 kW) with a 10% gain in peak torque.



Hagie STS Sprayers

# LOSE FILL TIME. GAIN RUN TIME.

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.





A yellow Hagie Hybrid Boom is shown in a cornfield. The boom is long and narrow, with several hydraulic cylinders and mounting points visible. It is positioned horizontally across the frame, extending from the left side towards the right. The background is a vast field of green corn plants under a blue sky with light clouds. A small portion of a white vehicle is visible on the far left edge.

## **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 have the strength of steel booms at a lighter weight.

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



Hagie STS Cab

# 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 7000 receiver, Generation 4 display, and free JDLink service<sup>1</sup> – you're ready to seamlessly stream data to your Operations Center account. See the chart below for the package that's right for you.

## 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

<sup>1</sup> 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.







800R Floater

# LOSE CHANGEOVER TIME. GAIN PRODUCTIVITY.

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 half<sup>1</sup>, so you can get back to the field quicker.

1. Internal John Deere study comparing FA165 HCNA with 800R Floater. Individual results may vary.

## DRY SPINNER SPREADER

The New Leader ISO user interface is fully integrated into the display 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.







800R Floater

# 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 1200 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.





## LIQUID SYSTEM

Spend more time in the field spraying with the new 2,000-gallon LS20 liquid system. Apply 80 gallons per acre at speeds up to 25 mph (40.2 km/h) with a wide flow range of 5-420 gpm (18.9 – 1,589 lpm). Choose between 30- or 60-inch Cam Lock spacing with optional 15-inch turret 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.

## 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 7000 receiver with SF-RTK, Premium 3.0 or Automation 4.0 activation and a Generation 4 4600 CommandCenter™ display.



Performance Upgrade Kits

# YOUR SPRAYER... ON STEROIDS.

Want to unlock more productivity from your sprayer? Ask your John Deere dealer about our performance upgrade kits. They can help you identify the upgrade best for you and give you expert installation. Ask your dealer for more details.

## ExactApply™

Ready to save 2-5% on herbicides and pesticides? 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 pushes product through the sprayer booms with a 3-way valve, keeping solution from settling and delivering consistent product to every nozzle. By pushing air through the sprayer lines, Product Reclaim pushes the solution back into the center feed tank. That saves you time during rinsing and boom prime or switching between products. And it can save up to 30 gallons per boom prime post boom purge<sup>1</sup>.

## **INDIVIDUAL NOZZLE CONTROL PRO**

Our newest nozzle technology, Nozzle Control Pro gives you section widths down to the individual nozzle turret - and turn compensation in five nozzle turret groupings. That saves you money and increases the accuracy of your application. On that proven technology, you can install Individual Nozzle Control Pro<sup>2</sup>, which adds pulse width modulation to a five-nozzle body turret of 15 Hz. You'll not only save on inputs, but you'll also reduce over application, crop burn, and off-target drift.

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. Compatibility requires a MY18 or newer 4-Series Sprayer.



## 400 Series Specifications

	408R	410R	412R
<b>ENGINE</b>			
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)
<b>SOLUTION SYSTEM</b>			
Capacity, U.S. gallon (L)	800 gal. (3028 L)	1000 gal. (3800 L)	1200 gal. (3785.4 L)
Tank material	Stainless steel or polyethylene	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
<b>BOOM</b>			
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 - five sensor (optional)	BoomTrac™ Pro - 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)
<b>DRIVETRAIN</b>			
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)
<b>CHASSIS</b>			
Dry compatible	Yes: 3200 cu ft (5.7 m <sup>3</sup> )	Yes: 3200 cu ft (5.7 m <sup>3</sup> )	Yes: 3200 cu ft (5.7 m <sup>3</sup> )
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)	31,395 lb (14,233 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 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 kg) 40.2-m (132-ft) boom: 30,678 lb (13,915 kg)
<b>TIRES</b>			
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	S20/85R38 or 620/70R38 (field installed only)	S20/85R38 or 620/70R38 (field installed only)	S20/85R38 or 620/70R38 (field installed only)
<b>OPTIONS</b>			
Air compressor	Onboard air	Onboard air	Onboard air
Foam marker capacity	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	636R
<b>ENGINE</b>		
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)
<b>SOLUTION SYSTEM</b>		
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
<b>BOOM</b>		
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	ExactApply™: 15 or 20 in. (38.1 or 51 cm)	
<b>DRIVETRAIN</b>		
Type	Hydrostatic 4WD	Hydrostatic 4WD
Shifting	Electrohydraulic	Electrohydraulic
Hydraulic reservoir capacity	26 gal. (98 L)	26 gal. (98 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)
<b>CHASSIS</b>		
Dry compatible	Yes: 3200 or 300 cu ft (5.7 or 8.5 m)	Yes: 3200 or 300 cu ft (5.7 or 8.5 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)
<b>TIRES</b>		
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
<b>OPTIONS</b>		
Air compressor	Onboard air	Onboard air
Foam marker capacity	Air injection foamer	Air injection foamer



## Hagie STS Specifications

	STS12	STS16	STS20
<b>ENGINE</b>			
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	548 cu in (9 L)	548 cu in (9 L)	548 cu in (9 L)
Fuel tank capacity	130 gal (492 L)	130 gal (492 L)	130 gal (492 L)
<b>SOLUTION SYSTEM</b>			
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
<b>BOOM</b>			
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) booms: 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)	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)
<b>DRIVETRAIN</b>			
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)
<b>CHASSIS</b>			
Dry compatible	Montag® Fertilizer	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)
<b>TIRES</b>			
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, VF750/60R46	VF480/80R50, VF750/60R46	VF480/80R50, VF750/60R46
<b>OPTIONS</b>			
Air compressor	Onboard air	Onboard air	Onboard air





800R	
<b>ENGINE</b>	
Make	John Deere
Peak rated power	365 hp (272 kW)
Power bulge	400 hp (298 kW)
Displacement	584 cu in. (9.6L)
Fuel tank capacity	155 gal. (586 L)
<b>DRY SPINNER SPREADER - DN495</b>	
Capacity	3330 cu ft (93.34 m <sup>3</sup> )
Box material	304 stainless steel Optional: 409 painted stainless steel
Spread width range	60 to 90 ft (18.29 to 27.43 m)
Automatic section control	John Deere Section Control (GS box)
Box options	Single bin Optional: Two-bin Multiplier insert Optional: Four-bin MultiBin insert
Conveyor	Multiplier and MultiBin - belt-over stainless-steel chain
Oiler	Electric
<b>AB485 AIR BOOM</b>	
Box material	304 painted stainless steel / 409 painted stainless steel
Box length	12 ft (3.66 m)
Capacity	3300 cu ft (93.49 m <sup>3</sup> )
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	1-2.3 in. (2.5-5.3 cm) <sup>1</sup>
Controllable conveyor rpm range	Bin 1 and Bin 2 running separately: 2-70 rpm Bin 1 and Bin 2 running at the same time: 2-40 rpm
Conveyor application rates	50-1200 lb per acre <sup>2</sup> (156-1345 kg/ha)
Controllable metering rpm	Bin 3 (granular bin): 3-61 rpm
Metering application rates	6-124 lb per acre <sup>2</sup> (16.7-139 kg/ha)
Volumetric flow rate	Less than 26.1 cu ft/min <sup>3</sup> (0.74 m <sup>3</sup> /min)
<b>DRIVETRAIN</b>	
Type	Full-time two-wheel drive (2WD)
Spreading in field speed range (dry box)	0 to 30 mph (0 to 48 km/h)
Transport speed range	0 to 46 mph (0 to 74 km/h)
<b>CHASSIS</b>	
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) pneumatic parking brake
Turning radius	39 ft (10.5 m)
Empty weight with single bin	31,000 lb (14,061 kg)
<b>TIRES</b>	
Front tires	750/50R26 tires - Alliance, Michelin <sup>4</sup> , or Trelleborg <sup>5</sup> (option)
Rear tires	1050/50R32 tires - Alliance or Michelin (option)
<b>OPTIONS</b>	
Air compressor	Onboard air

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/m<sup>3</sup>) 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 (156 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/m<sup>3</sup>) 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 0.10414 / density (lb/ft<sup>3</sup>). Constant of 0.10414 assumes 70-ft (21.3-m) spreading width.

5. Michelin<sup>®</sup> is a registered trademark of Michelin North America, Inc. Trelleborg<sup>®</sup> is a registered trademark of Trelleborg AB.





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