In Pursuit of Finding a Better Way

Hagie Manufacturing Company LLC was founded by Raymond W. Hagie. An entrepreneur at heart, Ray’s journey did not begin with a roadmap paving his way to success. Rather, Ray harnessed an immense passion for problem solving in a relentless pursuit of finding a better way. This fortitude led him to bring to market the world’s first self-propelled sprayer in 1947. Over 70 years later, we honor Ray’s legacy and industry contributions by building upon our unwavering commitment as innovative problem solvers.

Enter the Field Any Day

Located in Clarion, IA, Hagie Mfg. provides solutions that enhance capability to Enter the Field Any Day and perform timely and precise applications for optimal crop nutrition. A company driven to doing meaningful work, Hagie Mfg. provides precision agriculture solutions that maximize yields, while enabling our customers to sustainably feed the world.

See your local John Deere dealer for all your Hagie sales, parts & service needs.
The Hagie Advantage centers on the value added benefits that owners receiving through improved timing and placement of agricultural products. Hagie products are designed to have the ability to “Enter the Field Any Day”. Going all the way back to the beginning, Raymond W. Hagie founded Hagie Manufacturing Company by building a lightweight, high clearance machine that was capable of performing a task, regardless of crop growth stages or field conditions. Today, Hagie Mfg. provides application equipment to the industry with the same goal in mind: Enter the Field Any Day, in doing so, Hagie owners experience the value of performing applications any day and unlocking higher margins, while protecting investments. The Hagie Advantage equips owners with a competitive edge to maximize uptime and drive more profitability when every acre and every day counts.

Timely herbicide applications are imperative to limiting the effect weeds have on your crop yield. The longer weeds compete with your crop for space, water and nutrients, the more negative the crop yield impact. With weeds that can grow multiple inches per day, just a few hours can be critical for effective weed control. In a perfect world, Mother Nature would cooperate with herbicide application plans, but reality is managing applications around wind, rain and soil moisture conditions. Hagie STS and DTS models feature some of the best in-class weights available in the market today, and when paired with near perfect balance, allows for earlier field entry while leaving less of a footprint. While others wait for marginal field soil moisture conditions to improve, Hagie owners are in the field in optimal spray conditions.

**THE HAGIE ADVANTAGE**

**ENTER THE FIELD ANY DAY**

Better timing can increase your bottom line

**APRIL 2017 SUITABLE SPRAYING DAYS**

**MAY 2017 SUITABLE SPRAYING DAYS**

**HAGIE CUSTOMER**

- More Available Spray Days
- Earlier Field Access
- More Timely Weed Control
- Less Crop/Weed Competition
- More Crop Yield

**HAGIE CAN CHANGE MARGINAL CONDITIONS TO OPTIMAL**

**NON-HAGIE CUSTOMER**

- Fewer Available Spray Days
- More Restricted Field Access
- Less Timely Weed Control
- More Crop/Weed Competition
- Less Crop Yield

HAS DOESN’T HAVE

**WEIGHT / BALANCE**

**WEIGHT / BALANCE**

Better Timing Can Increase Your Bottom Line

Building An Innovative Family Since 1947

hagie.com
Setting the standard in high-clearance application, the Hagie STS10 and STS12 receives a shot in the arm from John Deere Power Systems for 2019. With the addition of the John Deere PowerTech 6.8 liter engine, the most versatile machine on the farm just became the most dependable.

In addition, the engine compartment and hood on the STS10 and STS12 have been redesigned to accommodate the new Deere engines and incorporates a new tool box and air intake scoop. Customers will also notice the right side of the chassis has been changed to include new fuel and diesel-exhaust fluid (DEF) tanks and a fuel-fill ladder and platform for more convenient machine access.

The Bar Has Been Raised

The platform was designed to access all major top areas of the machine with ease. Improved Refueling

6' of under frame clearance presents an interesting challenge from a fueling standpoint but the newly designed fuel/DEF layout on the right side of the STS10 and STS12 makes the process easier than ever. Fuel and DEF can be added on the right side using the standard fueling ladder that stows nicely under the tank, eliminating the need to drag a hose up the main ladder and across the frame.
R One Machine Solution for Every Application Need

High Clearance and High Performance: for those demanding the most accurate applications in even the most adverse field conditions, the Hagie STS Sprayer Series delivers any machine solution for all pre-emergence to late-season application needs. For those demanding the most accurate applications in even the most adverse field conditions, the Hagie STS Sprayer Series delivers a one machine solution for all pre-emergence to late-season application needs.

Maximize your crop’s potential is the name of the game and applying at the precise agronomic opportunity is critical in this mission. Hagie STS sprayer series design features an even weight distribution and front mounted boom to make it possible to enter the field any day. Make long hours feel shorter. The application specific cab of the STS sprayer line features a heated and cooled leather seat, large work space, and unrestricted view of the boom in all height ranges. Couple this with the benefits of John Deere AutoTrac and SwathControl and even the longest of days will feel more enjoyable.

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Power and Efficiency

When you are spending long days in the field, you want all the power and efficiency you can get your hands on.

The STS6 & 12 are now equipped with John Deere PowerTech™ 6.8L Tier 4 with 260 & 300 horsepower.

The STS8 & 14 are John Deere PowerTech™ 9.0L Tier 4 engines producing 300 & 375 horsepower respectively.

Advanced Application Cab

Designed for one thing, and one thing only, spraying. Countless hours are spent in the cab every season, you deserve a cab that is designed specifically for that purpose.

The STS10 & 12 are now equipped with John Deere PowerTech™ 6.8L Tier 4 with 280 & 300 horsepower.

1,000 to 1,600 Gallon Capacity

Four different capacity sizes to fit your operations needs. STS10/1,000 gal., STS12/1,200 gal., STS14/1,400 gal. and STS16/1,600 gal. The solution, rinse and fuel tanks are mounted in the middle of the machine so as the levels of the tanks go down, the machine maintains its weight balance.

60/90’, 60/100’ or 60/120’ Booms

With three available boom options that fold at 60’, you are bound to find match for your planter widths. The 90 and 100’ booms are steel while the 120’ is a steel inner section and aluminum outer sections. All three booms are designed not only to be strong but also to have excellent visibility during transport. The booms are available with Air Purge. Also available is Norac boom height control.
STS Tire Options

Tire options available for your preference of comfort, traction and width that allows you to run your STS for the full season.

- Goodyear UltraSpray IF 320/105R54
- Goodyear UltraSpray 380/90R46
- Goodyear UltraSpray 380/90R46
- Michelin SprayBib VF 380/90R46
- FIrestone All Trac RC VF 380/105R50
- Goodyear UltraSpray IF 380/105R50
- Michelin SprayBib VF 420/95R50
- Goodyear VF 480/95R50
- Alliance 550 520/85R38
- Michelin 620/70R38
- Alliance 550 650/65R38
- Goodyear LSW 680/55R42
- Goodyear UltraSpray IF 380/90R46
- Goodyear UltraSpray 380/90R46
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- Alliance 550 650/65R38
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- FIrestone All Trac RC VF 380/105R50
- Goodyear UltraSpray IF 380/90R46
- Michelin SprayBib VF 420/95R50
- Goodyear VF 480/95R50
- Alliance 550 520/85R38
- Michelin 620/70R38
- Alliance 550 650/65R38
- Goodyear LSW 680/55R42

Hand Wash Station

Conveniently located on the platform before you enter the cab to keep contamination of the cab to a minimum.

Quick-Tach

The Quick-Tach multi-coupler for increased simplicity and efficiency in switching attachments.

Side or Rear Fill Options

Front fill on the STS is standard while two separate fill options are offered: side fill (with eductor operation) and rear fill for convenience in filling the solution and rinse tanks from the location of choice.

The side fill option features reduced fill time at 300+ GPM. The eductor assembly is lowered/raised and transfer pump speed is increased/decreased by operating the power switches on the control panel.

The rear fill station is conveniently located on the ladder and users are able to fill both the solution tank and the rinse tank.
Split applied nitrogen stands out as a practice that can increase nitrogen use efficiency by giving producers the opportunity to make rate decisions closer to the time of peak plant demand. With this approach, in-season applications may reduce the total amount of nitrogen used (cost savings), while making more available to the crop when it needs it (yield increase).

Hagie offers options to fit the various needs of those who want to sidedress across an extended window of crop growth. The Hagie Nitrogen Toolbar attachment for the STS lineup uses high pressure injection coulter units for belowground placement. Our partnership with 360 Yield Center ensures compatibility between booms on the STS and DTS models with the 360 Y-Drop® for next to plant placement.

The Hagie Dual Product System (DPS), available on STS12 and STS16 models, utilizes products like the 360 Undercover® allows application of nutrients and fungicide/insecticide in the same pass. By applying both in the same pass saves time and money.

The Hagie Nitrogen Toolbar (NTB) has been an attachment for the Hagie STS for over a decade. It stands out as a tool that can increase nitrogen use efficiency by giving producers the opportunity to make nitrogen rate decisions closer to the time of peak demand. As part of a split application approach, in-season applications may reduce the total amount of nitrogen used while making more available to the crop when it needs it. The results can be twofold:

1. Fewer dollars spent on nitrogen inputs.
2. Yield increases because nitrogen is a non-limiting factor.

Features:
- 30’ and 40’ width
- 20” and 30” spacing
- Float design to contour the ground
- 4 standard gauge wheels for depth control and storage
- Standard coulter depth bands to control injection depth of individual row units
- 8 to 10 mph average application speed

STSSERIES NITROGEN toolbar (NTB)

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High yielding corn needs about \( \frac{1}{3} \) of its required nitrogen post-tassel, yet traditional nitrogen applications can leave it shorted. When applications are made too late, in advance of the plant’s time of peak demand, the risk of nitrogen deficiency increases. Postponing traditional sidedress applications to V8 or later allows nitrogen to be applied just as the tissue is reaching peak demand. Lost nitrogen not only means lost input dollars, but also lost yield potential. Performing application at the time when the plant is using nitrogen is key to maximizing profitability.

The Hagie DPS allows for a mixture of herbicides, fungicides, insecticides and nutrients to be applied in different places, at different rates at the same time. This technology unlocks economic headroom for the grower and ASP alike by reducing the overall cost of application and improving the quality of the pass.

Sprayers have been relatively immune to job combinations until now. Today, sprayers are making many more passes through growing crop and application windows are overlapping, allowing the ability to do two jobs at once.

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Performance. Stability. Visibility. These are the keys to full season application and Hagie booms are poised to deliver all of these benefits to you in all boom widths within our product portfolio. At its core, a sprayer boom has only one job: delivering product to the ground. At Hagie, we view the boom as more than just a piece of the puzzle. The boom is the first and foremost tool in accurate product placement. That’s why we put it out in front of our machines. From our tried and true 90’ and 100’ steel booms, to our high performing steel and aluminum 120’ boom, operators will benefit from the applicator minded design of our spray booms.

**FEATURES:**
- 90’, 100’, and 120’ widths
- 18’ - 104” under tip height range
- Hypro Xpress end fittings
- Optional Air Purge
- 3 directional tip breakaway (120’ only)
- 60’ main folds standard
- Standard boom section strainers
- On-boom manifold pressure gauge

Productivity through Flexibility. Hagie STS booms allow for multiple planter spacing combinations to keep operators from creating guess rows. Additionally, Hagie approves the use of boom attachments (Yield 360 Y-drop® or comparable) out to 60’ on the primary boom sections. All STS Booms come with the option of 15” or 20” (on center) spacing utilizing 3 or 5 position TeeJet nozzle bodies. Additional nozzle spacings available via the Hagie Custom Solution (CS).

**FLEET compatibility**

Premier height control solution designed specifically for the new 120’ boom. RWR was developed for inconsistent and challenging terrain. The RWR system controls the main lift cylinders while independently controlling each wing cylinder. The RWR system hydraulically links the left and right wings together to simulate roll without manipulating the center section to maintain an ideal, pre-set height above the ground or crop.

NORAC Active Wing Roll (AWR)

Premier height control solution designed specifically for the new 120’ boom. AWR was developed for inconsistent and challenging terrain. The AWR system controls the main lift cylinders while independently controlling each wing cylinder. The AWR system hydraulically links the left and right wings together to simulate roll without manipulating the center section to maintain an ideal, pre-set height above the ground or crop.
**StarFire™ 6000 Receiver** - The StarFire 6000 Receiver implements an improved antenna, the latest in Global Navigation Satellite System signal processing technology, and a new differential correction signal.

**John Deere Rate Controller 2000** - John Deere’s next generation universal rate control solution that builds on the success of the current controllers and provides a platform for increased functionality.

**InCommand™** - Improves real-time decision-making with features such as enhanced mapping with row-by-row detail and split screen view which will allow growers to identify machine control issues easier and sooner.

**DirectCommand™** - Total liquid application control to meet today’s challenges. Ease of use, coverage, low flow situations, performance, documentation and reliability are all addressed. Features like droplet size monitoring and pressure fallback, ensure liquid products are applied correctly - efficiently and correctly to avoid spray drift and for proper plant coverage.

**SmarTraxTM** - steering system lets you redefine the limits. That includes faster operating speeds, best-in-class line acquisition and easier, more relaxed driving.

**Ag Leader Precision Options**

- **Viper 4+** - Powerful new fourth generation veepr field computer. The Viper 4+ is powered by the innovative Raven Operating Software, providing a simple and connected precision ag platform.
- **Rate Control** - The Raven Rate Control Module (RCM) is the next generation in precision application rate control. It uses Raven’s innovative control algorithms to make it the most precise application controller on the market today.
- **SmarTrack™** - steering system lets you redefine the limits. That includes faster operating speeds, best-in-class line acquisition and easier, more relaxed driving.

**Raven Precision Options**

- **Direct Chemical Injection** - Chemical injection kits are available on all models of Hagie sprayers. The injection pumps are compatible with Ag Leader, John Deere, and Raven precision options. All chemical injection kits include a 5 – 200 oz/minute Raven injection pump, mixer assembly, and a visual flow indicator that can be seen from the cab.

**Norac Boom Height Control**

The Norac boom height control system uses ultrasonic sensors to control the spray boom to a preset height. The Norac system utilizes sensors mounted on the left, right, and center sections to automatically control the spray boom above the ground or the crop.

**Viper 4+**

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**StarFire™ 6000 Receiver**

- The StarFire 6000 Receiver implements an improved antenna, the latest in Global Navigation Satellite System signal processing technology, and a new differential correction signal.
Tall Crop Package

Perform late season applications with reduced crop damage and enhanced protection of your DTS and STS sprayer. Hagie’s Tall Crop Package option includes the under frame covers and front shielding (STS only). Also available are wheel covers and crop dividers.

DTS/STS Features/Options

AWS - All Wheel Steer

The All Wheel Steering (AWS) option is designed so the front and rear wheels are coordinated to follow the same path to minimize crop damage and ground disturbance.

Narrow Leg Design

Many think that the key to spraying tall crops is clearance, however leg design is a key feature of late season sprayers and, in many cases, can be as important as clearance. Hagie products are designed to be no wider than 20” at hub height and taper from bottom to top in effort to reduce crop damage from machine contact.

Lighting

Making timely applications sometimes means working late into the night. The Night spray and premium LED light options help get the product applied when you need to, no matter the time of day.

AWS Disengaged

AWS Engaged

DTS10 / STS series

DTS/STS series

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Advanced Application Cab

Long hours have never been as comfortable as they are in the Hagie application specific cab. Designed for one purpose and one purpose only, spraying.

The cab can be configured in either standard or premium options. Premium cab option adds Bluetooth®, a premium heated/cooled leather seat, power mirrors & auto climate control will help you make the most of this mobile office.

The Sy-Klone Air Filtration System and RESPA® Cab Filter work together to provide continuous fresh, clear air in the operator station. The external Sy-Klone system provides positive air pressure keeping the cabin pressurized and contaminates out. The internal RESPA® system continually filters and circulates the air in the cab. The two work together to keep the interior safe and clean of contaminates.

Hands Free Door Opening

After utilizing the hand wash station outside the cab door use the standard hands free door opener.

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Independent Air Ride Suspension

Hagie machines carry large loads of products with variable densities. Hagie machines utilize an air ride suspension system, from single to 3 chamber, to optimize ride from full to empty.

Electronic Actuated Hood

Recess to engine components can be a challenge on agricultural equipment. Both the STS and the DTS came standard with a fully electric hood, this feature never fails to impress new Hagie customers.

Tool Kit

Included with each DTS and STS is a proprietary tool kit for changing nozzle bodies, strainers and spanner wrenches for removing fittings and end caps on the boom.

Backup Camera

The backup camera comes standard to aid in safely and minimizing crop damage while reversing the machine.

Machine Control Display

Hagie products feature a large display for improved operator feedback and control. The display is considerably larger and provides a sharper image. It is 100% touch screen with virtual buttons positioned along the right side for easy access in field. The controller is considerably faster providing quicker start-ups and responsive control. Features include virtual rinse control, improved drive system set-up, and customizable in-field lighting to name a few.

Pressure Washer

The optional on board pressure washer for rinsing off your machine before performing infield maintenance and rinsing off product before leaving the field.

Rear Boom

The optional rear boom allows the center section of the main boom to be diverted to the rear boom to provide superior fungicide application in post-tassel corn after the crop has passed under the machine.

Contact your local John Deere dealership about Hagie’s extensive line of aftermarket options.

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Enter the field Any Day, Any time, Anywhere.

The DTS10 sprayer boasts an impressive 1,000 gallon capacity and a dry weight of 20,000 lbs., allowing you in the field earlier and in marginal field conditions to maximize productivity in narrow spray windows. The DTS10 achieves this by creating a low center of gravity with dual 500 gallon saddle tanks in a smaller machine package. Optional hydraulic tread adjust and progressive all wheel steer make the DTS10 just as capable as the larger STS sprayers within the family. The DTS10 also features the Hagie Standard 73” under frame clearance, allowing the machines to perform applications in the fields after standard machines are back in the shed. To make the most of your late season needs, take a look at the innovation and high performance design of the DTS10.
All Access Platform
The platform was designed to access all major top areas of the machine with ease.

Open Inspection Areas
All vital engine fluids are easily visible without the need to open the hood. Convenient electronic hood opener for accessing the machine components for service.

Fuel/Rinse Module
Fuel and rinse tanks are located here. Also, a center-mounted toolbox allows storage location for personal protective equipment, provided tools, spray tips, etc.

Rinse Tank Fill
100-gallon rinse tank fill station that also can be easily filled from the rear fill assembly.

Fuel/Foam Fill
100-gallon fuel tank and foam marker concentrate reservoir.

1,000 Gallon Capacity
The two solution tanks are centrally mounted low between the axles to give the DTS10 one of the best weight splits and centers of gravity on the market. Each tank has an uncontaminated sight gauge that is visible from the ground and cab.

Tier 4 Cummins® 6.7 engine
Strong, reliable and powerful describes the Cummins® 6.7 Tier 4 engine in the DTS10. It is rated at 225 horsepower and makes long days covering hundreds of acres a breeze.

Rear Fill Area
Both the solution and rinse tanks are filled at the rear of the machine. A conveniently located switch on the automatic folding ladder allows the user to fill both solution tanks separately or simultaneously. A light switch for illuminating walkway to the cab is also located at the fill area.

60/80’ or 60/90’ Booms
Both booms fold at 60’ to match planter widths. The booms are designed not only to aid in strength but to have better visibility when transporting. The majority of lines and harnesses are routed and secured in a C-channel that forms the upper boom structure for protection and through-beam visibility. The booms are available with Air Purge.
didn’t see a solution for your operation? Ask your John Deere dealer about what Hagie Custom Solution’s can do for you.

* Will vary depending on machine configuration (tires, suspension settings, tank size, boom size, Direct Inject, nozzle ... and design subject to change without notice. ** Maximum unloaded transport speed may vary depending upon machine options.