

TRIDENT 5550 LIQUID/DRY COMBINATION APPLICATOR

# TRIDENT™ 5550

LIQUID/DRY COMBINATION APPLICATOR



AGRONOMIC  DESIGN™

**CASE II**

**CASE II**



## TRIDENT™ 5550

1 Model | 390 HP | 1,400 or 1,600 Gal.

The Trident 5550 liquid/dry combination applicator is the industry's fastest converting combination applicator on a high clearance row-crop chassis. It's engineered from the ground up to be changed from liquid to dry and back again throughout three seasons of use. Quick changeover times, automatic and in-cab adjustments and precise application technology give you a flexible equipment solution to protect and feed your customers'—or your own—crops at the optimal time.



**TRIDENT 5550 LIQUID/DRY COMBINATION APPLICATOR**

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# EXPERIENCE HIGH-EFFICIENCY CROP PRODUCTION

High-Efficiency Farming ensures that production practices match each individual operation—from field conditions and equipment to available resources and yield goals. High-Efficiency Farming is not simply working faster. It's about finding the perfect match of resources and equipment to get the most from every field, every piece of equipment, every season.

The Trident 5550 liquid/dry combination applicator embodies High-Efficiency Farming: **efficient use of time, resources and inputs.** As a true combination applicator, the Trident 5550 helps you maximize returns on every acre and from every dollar you invest in application equipment. With ongoing labor shortages and rising input costs, we know that the right equipment can make all the difference and that is why the Trident 5550 with its intentional

design and technology, places operators at the forefront. With a single chassis and quick and easy liquid-to-dry conversion, it is engineered for maximum comfort, precision, and productivity to help you **cover more acres at the right time.**

## AT HOME ON MORE ACRES

Making the most of today's crop production technologies requires **timely fertilizer applications** and **on-demand treatments** for all types of pests. Maximizing yield potential requires a more specialized approach to feeding and protecting. And that requires an applicator nimble enough to meet those demands — across three seasons of use.

# PURPOSEFULLY DESIGNED FOR THREE SEASONS OF USE

## PREPLANT, POSTEMERGE, POSTHARVEST

Cover more acres for timely and flexible multiseason product application with the Trident 5550. Designed to be used as a combination applicator, you get greater capacity and features that deliver in-field efficiency throughout all three seasons: fall/winter postharvest, spring preplant and summer postemerge.

## ROLLING IN ROW CROPS

The Trident 5550 combination applicator gives you the flexibility in a single piece of equipment to meet the early spring demands of fertilizer applications and preplant weed control.

- **Season 1:** Outfitted with the New Leader® NL4500T G4 Edge or NL5000 G5 variable rate dry nutrient applicator, wrap up dry fertilizer applications remaining from the previous fall, and then quickly switch to the liquid system.
- **Season 2:** Preplant, preemerge or postemerge, protect valuable crops from all types of pests—weeds, insects and fungi. Switch back to the dry applicator, if desired, for topdress fertilizer applications.
- **Season 3:** Follow the combines with postharvest fertilizer applications.

## COVERING THE ACRES IN CEREALS

From winter wheat to double cropping soybeans to hard red spring wheat, you need the Trident 5550 combination applicator to keep up.

- **Season 1:** Make in-crop pesticide applications; apply nitrogen later in the season to boost protein levels.
- **Season 2:** Make postharvest burndown applications before planting double-crop soybeans. Convert to the NL4500T G4 Edge or NL5000 G5 variable rate dry nutrient applicator and apply dry fertilizer postharvest; switch back to the liquid system.
- **Season 3:** Preserve valuable soil moisture with chem-fallow burndown applications ahead of winter wheat seeding or to maintain clean fields until winter, setting them up for spring planting and seeding.



# TRIDENT 5550 LIQUID/DRY COMBINATION APPLICATOR—ONE CHASSIS, THREE SEASONS

When we say we engineered the Trident 5550 from the ground up to be the industry's fastest converting high clearance row-crop liquid/dry combination applicator, we knew it had to do with more than simply applying liquid and dry product—it had to be an equipment solution that provides enhanced reliability, productivity and efficiency, driving higher returns on investment (ROI). The Trident 5550 combination applicator does exactly that.

- Capacities that maximize on-row efficiency so you cover more acres every day.
- A durable chassis to carry every load.
- Industry-leading horsepower on a high clearance, row-crop applicator with patented Tier 4 B/Final SCR-only technology.
- A comfortable operator environment.
- The latest precision-application technology.



## A BETTER RIDE, ALL DAY LONG

It's no secret application equipment can take a toll on operators. But hitting optimal application windows requires long hours, day after day. Our exclusive load-compensated pneumatic suspension package monitors load and adjusts air pressure to improve leveling and provide a smoother ride that keeps operators fresher and more productive all day, every day.

## POWER TO THE WHEELS THAT NEED IT

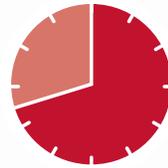
Challenging terrain and difficult field conditions can put traction to the test. Individual wheel traction control improves performance and productivity by sensing slip and countering trouble by regulating oil flow at each wheel motor to help the Trident 5550 combination applicator power through those tough spots.

### A QUICK-CHANGE TOOL THAT WORKS FAST

A combination applicator that takes the better part of a day to switch between liquid and dry limits productivity. The Case IH **Aerial Lift Device** helps convert from the Trident 5550 Liquid System to the NL4500T G4 Edge or NL5000 G5 variable rate dry nutrient applicator in just 42 minutes. The quick, easy changeover puts you back in the field sooner, helping you make better use of your fleet.

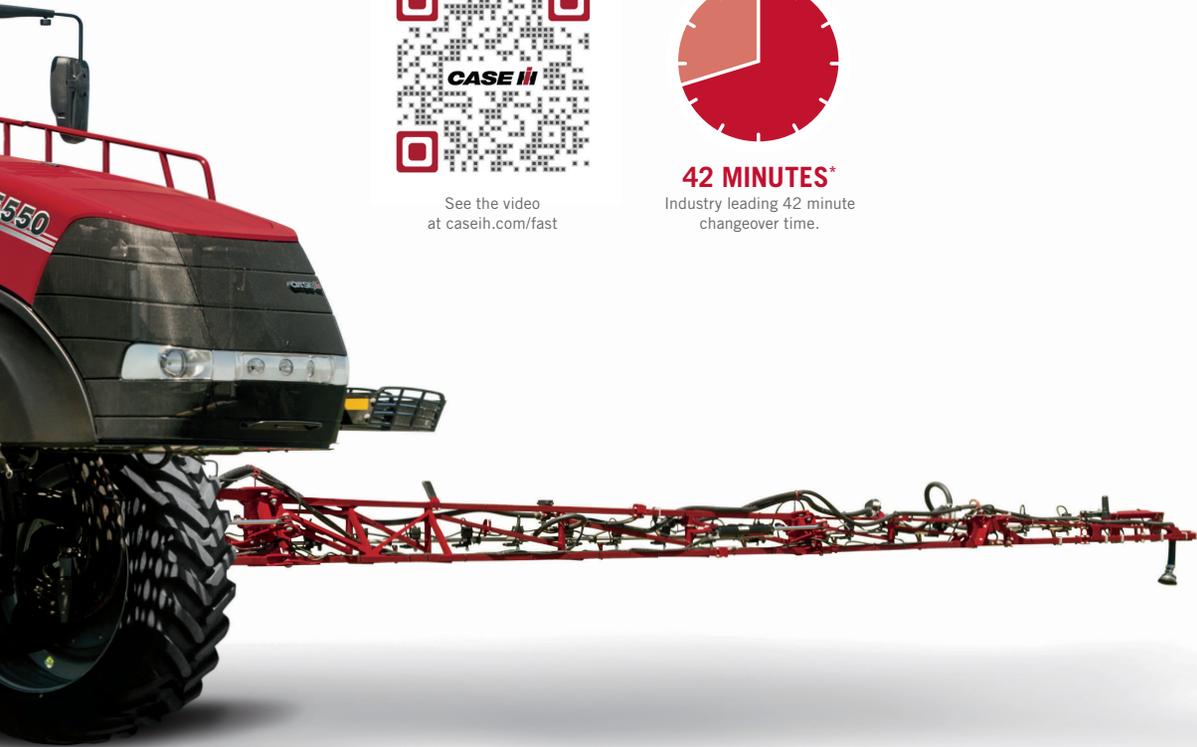


See the video  
at [caseih.com/fast](http://caseih.com/fast)



**42 MINUTES\***

Industry leading 42 minute  
changeover time.



### EASY AXLE ADJUSTMENTS BETWEEN FIELDS AND ROW SPACINGS

These days, it seems there are as many row spacings as there are seed varieties. Row widths can vary from farm to farm, crop to crop, field to field. Right from the seat in the cab, the Trident 5550 lets operators quickly and easily adjust axle settings in 1/2-inch increments—no manual stops required. Prepopulated, preset dimensions make adjusting to varying row spacings easy and fast.



### AUTOMATIC ADJUSTMENTS BOOST YOUR PRODUCTIVITY

The more you can do from the seat in the cab, the quicker you can move on to the next job or field. Automatic and in-cab adjustments, such as load-compensated suspension, independent axle adjustments and an optional automated rinse feature help reduce operator fatigue and increase productivity.



### FACTORY-INTEGRATED DUAL TIRES

The Trident 5550 is the first applicator featuring factory available duals in row crop tire sizes for increased flotation and reduced compaction. Simply and quickly remove the outer wheel and spacer when desired.



# HIGH-CAPACITY PRODUCTIVITY

The Trident 5550 liquid/dry combination applicator provides the capacity and reliable ruggedness to keep you rolling through three seasons of application. The Trident 5550 Liquid System features either a 1,400- or 1,600-gallon tank, while the New Leader NL4500T G4 Edge or NL5000 G5 variable rate dry nutrient applicator bin holds up to 330 cubic feet of product. A longer run time between refills means more time in the field and more acres in the books every day. Other features ensure the ride, comfort and durability needed for less downtime and more uptime.

## EXCLUSIVE LOAD-COMPENSATED SUSPENSION

- Since the chassis on the Trident 5550 combination applicator can carry liquid or dry application systems, it requires a suspension package capable of carrying high-capacity loads and applying those loads over a wide range of speeds. The solution: load-compensated suspension that provides a smooth, stable ride—regardless of load.
  - **Unique technology**
  - **A pneumatic cylinder** at each suspension joint maintains ride quality and load leveling
  - **Engine-driven air compressor** supplies the air to cylinder
  - **Automatically adjusts** according to operating mode and load weight
  - **Four suspension modes** range from tendering to deflated for transport

## EASILY ADJUSTABLE AXLE SETTINGS

- From the cab, the operator can quickly and **independently adjust each axle** using either the programmable display on the instrument cluster (A-post) or through the rate controller via a Virtual Terminal (VT) display interface screen.
  - Axles slide into or out of frame, riding on four plastic liners
  - Adjustments range from 120 to 160 inches, adjustable in 1/2-inch increments
  - Sensors in each axle-adjust cylinder provide in-cab feedback about axle positioning

## A FRAME THAT STANDS UP TO INTENSE DEMANDS

- The frame is the backbone of the Trident 5550 combination applicator. It carries every component of the system. And it must do so under some of the toughest conditions imaginable. The frame of the Trident 5550 combination applicator is constructed of **welded, tubular steel**, which carries more weight than C-channel steel of the same thickness. Additional plates and gussets at key stress areas help ensure durability and long life.
  - Main frame rails: 6×12×3/8 inches
  - Axle tubes: 8×12×3/8 inches

## QUICK-CHANGE TOOL

- The Case IH **Aerial Lift Device (ALD)** facilitates easy changeover between the Trident 5550 Liquid System and the NL4500T G4 Edge or NL5000 G5 variable rate dry nutrient applicator. A shop hoist or other equipment paired with the quick-change tool makes switching between applicators quick and easy, so you can take advantage of all your combination applicator is designed to do.

## WHEELS AND TIRES TO SUIT YOUR NEEDS

- When operating over three seasons, in a variety of ground conditions and crop types, it's important to have tire options for sprayer or spreader configurations. Keeping tire traffic off the crop rows as you work the field helps preserve yield potential. Other considerations when selecting tires include width and inflation pressure, which help determine flotation and, ultimately, the amount of compaction.

## FACTORY-AVAILABLE DUALS

- A larger footprint on the ground can help make wet fields more accessible and reduce soil compaction by spreading the load over more points of ground contact.
  - Range of dual options to accommodate tire sizes, crops and seasons with 20-, 22- and 30-inch spacing options
  - Outer wheel and spacer can be easily removed, eliminating the need to change between flotation and row crop tires

## EXTEND DAYLIGHT UNTIL YOUR DAY IS DONE

- As you rely more and more on your applicator to feed and protect your crops, you spend more time on the road moving from field to field and more time in the field after sunset. The Trident 5550 offers many standard and optional lighting choices, including **halogen and LED lights**, plus available **Deluxe LED field lights** and single or dual **beacon lights**.

## DO MORE, WITHOUT LEAVING THE CAB

- Fewer trips in and out of the cab fine-tuning settings and adjustments and performing other tasks saves time, increases productivity and reduces operator wear and tear. The Trident 5550 combination applicator incorporates **several automatic adjustments** and adjustments the operator can make without leaving the cab:
  - **Load-compensated suspension**—automatically adjusts to load and levels for a smoother ride
  - **Independent axle adjustment**—quickly change wheel track spacings between crops and fields
  - **An automated rinse option**—with the click of a button, the operator can start the rinse cycle



# EXPAND YOUR DRY-PRODUCT APPLICATIONS, EFFICIENTLY

As fertility becomes more complex, the Trident 5550 combination applicator—featuring the optional New Leader NL4500T G4 Edge or NL5000 G5 variable rate dry nutrient applicator—can help you meet the demands of these prescription programs. And because you can apply up to four dry products at once, you can meet those demands more efficiently.

Applicator Model	Bin 1	Bin 2	Bin 3	Bin 4	Total Capacity
Single bin	330 cu. ft.				330 cu. ft.
5-foot MultiApplier	190 cu. ft.	115 cu. ft.			305 cu. ft.
7-foot MultiApplier	131 cu. ft.	161 cu. ft.			292 cu. ft.
3-Bin MultiBin System	131 cu. ft.	143 cu. ft.	44 cu. ft.		318 cu. ft.
4-Bin MultiBin System	131 cu. ft.	143 cu. ft.	23 cu. ft.	21 cu. ft.	318 cu. ft.

## CAPACITY TO KEEP YOU MOVING

High capacities and configuration options let you customize your applicator to meet your needs, so you spend less time filling and more time spreading (all capacities are struck).



## PRECISION SPINNER TECHNOLOGY

The NL4500T G4 Edge or NL5000 G5 features patented precision spinner technology that allows it to spread product faster, wider—dry fertilizer up to 120 feet and ag lime up to 60 feet—and more consistently.



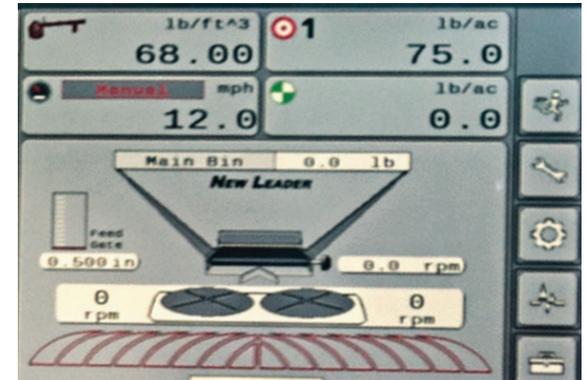
## PRECISELY APPLY UP TO FOUR PRODUCTS

With the MultiApplier option, you can increase your productivity by applying two products simultaneously or independently at straight or variable rates in one pass. Add micronutrients via the MultiBin option and apply up to four products in one pass. That means fewer trips across the field for reduced soil compaction, labor and fuel consumption.



## ADVANCED HYDRAULICS

At the heart of the precision dry product applicator is a hydraulic system that supports precise, independent spinner speed and conveyor control. System sensors and alerts, plus automatic chain tensioners greatly extend conveyor life.



## AN EASY-TO-USE NEW LEADER INTERFACE

The intuitive, easy-to-use New Leader interface lets you manage applications precisely with the Case IH Viper 4+ controller.



## PRECISELY MADE FOR PRECISION APPLICATION

Laser-cut components and slot and tab design create the precise, self-centering elements necessary for precision dry product application. The waterfall dividers and high feedgate opening allow for maximum product output, while maintaining a consistent drop point for repeatable product placement.

# DRY PRODUCT APPLICATION THAT SUPPORTS TODAY'S NUTRIENT MANAGEMENT

Crop growth depends on nutrient availability. With today's new and enhanced nutrient products, trends and practices are changing. Split-applying nutrients can help manage risk. Rather than broadcasting the entire nutrient package during the fall or spring, spreading out crop nutrient applications across the fall, spring and in crop helps ensure nutrients are available when growing crops need them.

## PRODUCTIVITY, EFFICIENCY, PRECISION CONTROL

The NL4500T G4 Edge or NL5000 G5 relies on advanced hydraulics, paired with all-electronic controls, to deliver the precision sustainable crop production and responsible nutrient management demand.

- **Dual RPM sensors/pulse width modulation (PWM) valves:**
  - Precisely controls the speed of each spinner independently
  - Controls the distance of the spread—apply along boundary line
  - Places nutrients where crops need them
- **Electronic controls:**
  - Provides faster reactions and a quicker response
  - Allows for precise, variable-rate application

## AT YOUR FINGERTIPS

The intuitive, easy-to-use New Leader interface easily connects you to settings and feedback via any compatible controller, including the Case IH Viper 4+ controller.

- Use prescription maps, create as-applied maps, track area applied, track total weight dispensed and activate section control (AutoSwath).
- Access diagnostic feedback and automatic service notices.

## MULTAPPLIER HELPS YOU DO MORE

Increase your productivity and reduce operating expenses by inserting 5- or 7-foot MultiApplier bins (total box capacities from 292 to 305 cu. ft.). This option lets you apply up to two dry products simultaneously or independently at variable or straight rates in a single pass.



## MULTIBIN ADVANTAGE

The NL4500T G4 Edge or NL5000 G5 gives you precision dry fertilizer applications. Micronutrients give you prescription fertilizer programs. The MultiBin option gives you both. Now, with the MultiBin feature in place, you can precisely apply up to four dry fertilizer products to better meet the needs of your customers and your crops.

## DURABILITY AND RELIABILITY YOU CAN COUNT ON

By nature, fertilizer applicators operate in harsh environments. From rolling across rough, rugged terrain to moving and spreading corrosive materials, the NL4500T G4 Edge or NL5000 G5 is built for the challenge.

- Stainless steel tubes and mounts help maintain structural integrity.
- Diagnostics catch any minor problems before they can cause major downtime.

## STEWARDING OUR RESOURCES

Case IH is a proud partner of the 4R Nutrient Stewardship initiative. The 4Rs promote best management practices (BMPs) to achieve cropping system goals while minimizing field nutrient loss and maximizing crop uptake. The 4Rs include:

- The right source
- At the right rate
- At the right time
- In the right place



## FEATURES DESIGNED TO ENHANCE YOUR PRODUCTIVITY

- All across the NL4500T G4 Edge or NL5000 G5 variable rate dry applicator, you'll find features, components and mechanisms designed to reduce downtime and maximize uptime:
  - Automatic, pressurized chain oiler
  - Automatic chain tension
  - Lubrication alerts
  - Front and rear greasebanks
  - Empty bin countdown via the New Leader interface



# PUTTING IN LONG WORKDAYS DOESN'T HAVE TO FEEL LIKE IT

Recognizing the significant time operators spend in the cab, we realize that comfort and amenities aren't a luxury, but a necessity and which is why we place so much focus on this. The surveyor cabs of the Trident 5550 liquid/dry combination applicator are designed to guarantee longer and more comfortable hours in the field so the operators look forward to climbing back into the cab each morning.

## LUXURY OR DELUXE—OUR SURVEYOR CAB OFFERS OPTIONS SUITED TO YOUR NEEDS

With **109.5 cubic feet of interior space**, the **Surveyor cab** provides exceptional leg room and room to stretch during those long hours in the cab. And all that space is put to efficient use, with easy access to operator controls without sacrificing visibility. The seat is centrally located in the cab which allows the cab roof to also function as a sun shade.

From the red leather seat to the leather-wrapped steering wheel, the **Luxury Surveyor** cab sets the standard for workplace comforts, while the **Deluxe Surveyor** cab provides a comfortable workspace that can be customized to each operator's preferences.

## AUTOMATIC IN-CAB ADJUSTMENTS

Allow the operator to focus on application, rather than adjusting settings and performing other routine tasks.

- **Speed control knob:** Rotate the speed control to adjust top travel speed range to help maintain in-field or in-transit load: speed ratios.
- **Load-compensating suspension:** Automatic during transport and field operation. Suspension system service switch locks suspension in place so unexpected movement does not occur during maintenance or servicing.
- **Independent axle adjustment:** Easily transition from field to field, crop to crop and row spacing to row spacing without leaving the cab. Set the desired axle spacing through the programmable display on the instrument cluster (A-post) or through the rate controller via a Virtual Terminal (VT) display interface screen.

## OPERATORS SEAT

Operators can fine-tune seat height, fore and aft position, seat swivel up to 20 degrees to the right, backrest, lumbar curve and armrest tilt, and the convenience of **footrest pegs** integrated into the steering console. A tilting and telescopic steering column lets the operator adjust the steering wheel to coincide with seat adjustments.





**A** Air-Ride Seat

**B** Instructional Seat

**C** Tilt And Telescoping Steering Column

**D** A-Post Gauges And Readouts

**E** Viper 4+ Display

**F** Hydrostatic Control Lever

**G** Right-Hand Control Console

**H** Axle Adjust Interlock Switch  
(Under Armrest Cover)



# A BETTER WORK ENVIRONMENT

Regardless of which version of the Surveyor Cab is right for you, the operator environment comes equipped with a wide range of features and creature comforts, including Bluetooth and satellite radio ready functionality, plus cab interior and map lights.

## KEEP AN EYE ON YOUR WORK

The large, roomy Surveyor cab features 68.5 square feet of glass and well-positioned controls that don't interfere with sight lines. In the luxury and deluxe models, you'll find a cab suited to your needs.

## DELUXE SURVEYOR CAB

- The Deluxe Surveyor cab offers unmatched amenities and creature comforts:
  - Cloth operator seat
  - Cloth instructional seat
  - Soft-grip steering wheel
  - Rubber floor mat
  - Fender console controls

## LUXURY SURVEYOR CAB

- The Luxury Surveyor cab offers our most robust comfort and convenience package:
  - Red leather temperature-controlled **heated and ventilated operator seat**
  - Adjustable lower operator seat cushion for **improved comfort**
  - Red leather **instructional seat**
  - **Leather-wrapped** steering wheel
  - **Ergonomic controls**, fender console controls
  - **Carpeted floor mat**
  - **Automatic Temperature Control (ATC)**
  - **Intermittent windshield wipers**



## DO MORE WITHOUT LEAVING THE CAB

The Surveyor cab is a great place to work and **a great place to get work done.** Without leaving the seat of the cab, the operator can complete multiple tasks and make most adjustments and settings.

- **Enable RS1 autoguidance.**
- Infinitely **adjust travel speeds** by using the speed control knob.
- Trident 5550 Liquid System:
  - **Boom control**
  - **Boom sections control**
  - **Fence row nozzle**
  - Optional **automated rinse cycle**
- New Leader NL4500T G4 Edge or NL5000 G5 variable rate dry nutrient applicator.
  - **Spread width**
  - Apply along **boundary line**
  - **Monitor bin levels**
- Use the **speed control switch to change between road and field modes.** Maximum 40 mph road speed and 25 mph maximum in-field speed.
  - Activate via fender console switch

## AFS KEEPS YOU ON TRACK

Case IH Advanced Farming Systems (AFS) deliver **an integrated precision farming solution** that gives you more control right from the seat of your cab. With features including AIM Command FLEX™ II advanced spray technology, AccuBoom automatic boom section control, AutoBoom® XRT automatic boom height control, and RS1 autoguidance, you'll reduce waste, increase overall efficiency and uncover opportunities that turn potential into profit.



# ULTIMATE SPRAY QUALITY

Get the most out of every tankful, every hour and every acre with AIM Command FLEX II advanced spray technology. This superior spray system is a **factory-equipped option on every Trident 5550 Liquid System** and delivers the ultimate in sprayer control for more efficient use of time and resources and sound product stewardship.





### AIM COMMAND FLEX II ENHANCES PRODUCTIVITY

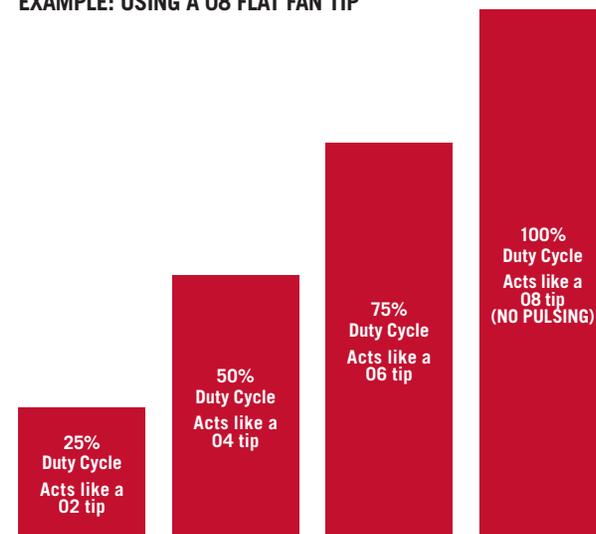
- **Controls product flow and pressure** more precisely than conventional rate controllers.
- **Optimizes application rates and droplet sizes** for consistent application, regardless of speed and ground conditions.
- **Delivers more consistent, flexible and accurate application**, even in turns, rough terrain and irregular-shaped fields.
- Integrates precision technology to help your operation **achieve greater efficiency**.

### HERE'S HOW AIM COMMAND FLEX II WORKS

**Pulse width modulation (PWM) spray technology** ensures a constant application rate and spray pressure, even when sprayer speed changes. Think of it as a way to change nozzle tips without leaving the cab.

- Once you select a standard tip based on application rate, chemical droplet size and travel speed, AIM Command FLEX II automatically and precisely **controls the flow to meet targeted application rates**.
- Working at 20 pulses per second, but is adjustable between 10, 15 or 20, nozzle valves vary the duty cycle to **maintain the correct application rate as sprayer speed changes**.

### EXAMPLE: USING A 08 FLAT FAN TIP



# BETTER APPLICATION QUALITY ACROSS EVERY FIELD

AIM Command FLEX II is the ultimate sprayer control that enables a level of spray coverage that surpasses what can be achieved with conventional rate controller-only technology.

## EFFICIENT, EFFECTIVE APPLICATIONS

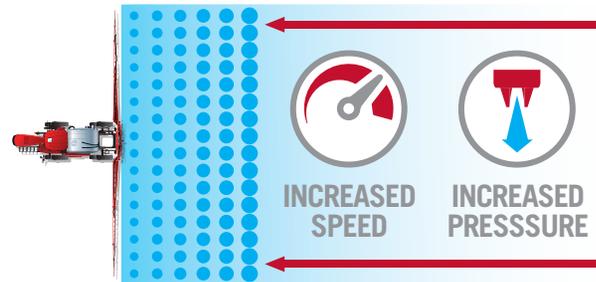
Eliminate worry about over- or under-application. AIM Command FLEX II delivers quality application for effective and efficient use of crop protection products and spray operations.

- The system maintains consistent application rate and spray pressure across the field and over a wide range of speeds—**up to 8:1 with properly sized spray tips**.
- Because pressure is constant, you can choose the speed that fits the field or conditions and still **get the best possible product coverage**.
- AIM Command FLEX II increases your sprayer's production potential while **reducing per-acre operating costs**.

## PRECISE PRODUCT FLOW

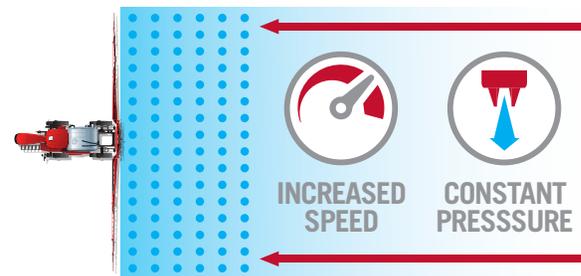
- AIM Command FLEX II technology provides **individual nozzle on/off control**, delivering the ultimate in spray accuracy and precision.
- The ability to control spraying at the individual-nozzle level helps **reduce overapplication** that adds costs and results in potential crop damage.
- To accommodate sprayer wheel tracks, fence rows or other field conditions, you can **preset spray rates up to 50% higher than your target rate** on up to eight nozzles.

## CONSISTENT COVERAGE EVERYWHERE:



## RATE CONTROLLER ONLY

- Variable with speed 10–90 PSI



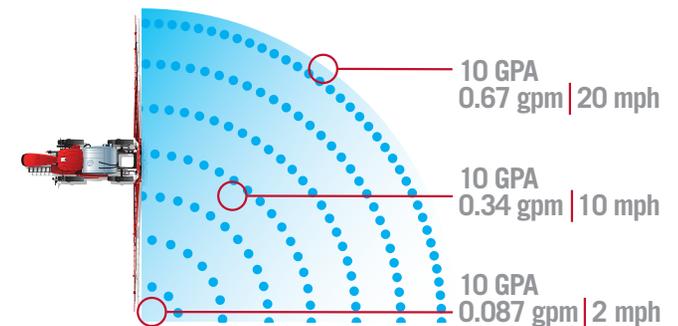
## AIM COMMAND FLEX II

- Operator selected - constant 60 PSI

## TURN COMPENSATION

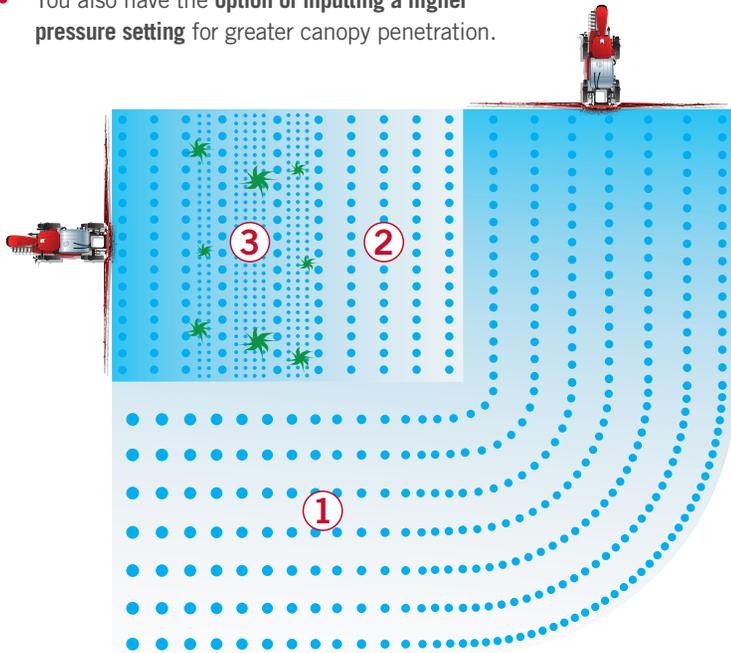
When your sprayer runs in a straight line, every nozzle moves over the field at the same speed. But during turns, ground speed varies across the boom—causing under-application on the outside of the boom and over-application on the inside of the boom.

- AIM Command FLEX II solves that problem by compensating for different speeds across the boom to **ensure correct application rates**.
- Each nozzle **adjusts its duty cycle to match the targeted application rate** based on speed, nozzle position on the boom and the arc or turn radius.
- There's no need to manually increase spray rates at lower speeds to **deliver consistent, accurate application rates**.



## IMPROVED DRIFT CONTROL

- For on-demand drift control, AIM Command FLEX II technology allows you to **toggle between three preset spray pressures** that can be reset up or down at any time.
- Input a lower pressure setting to **selectively avoid off-target application in sensitive areas or to respond to wind gusts**. When normal conditions return, toggle back to the higher pressure setting on the go.
- You also have the **option of inputting a higher pressure setting** for greater canopy penetration.



- **Step 1:** Lower Pressure: drift control 25psi
- **Step 2:** Intended Pressure: interior 60 psi
- **Step 3:** High Pressure: fogging/canopy penetration 80–90 psi

## INSTANT ON/OFF

- With AIM Command FLEX II, you **reach target rate and spray pressure immediately** after nozzles are turned on.
- And, there is **no pressure bleed-down or nozzle dribble** at turn-off that can lead to over-application.





# HIGH PRECISION APPLICATION

When you tap into all that Case IH Advanced Farming Systems (AFS) offers, you'll bring the latest, most advanced precision technology to the Trident 5550 liquid/dry combination applicator. AFS is an integrated precision farming solution that gives you more control right from the seat of your cab.

## ACCUBOOM AUTOMATIC BOOM SECTION CONTROL

**AccuBoom** automatically turns off boom sections when the sprayer enters an area that has already been sprayed and then turns the sections back on when leaving the applied area. AccuBoom is a standard feature on every Trident 5550 Liquid System and compatible with the Case IH Viper 4+ controller and a GPS system.

## AUTOBOOM XRT AUTOMATIC BOOM HEIGHT CONTROL

**AutoBoom XRT** uses a combination of radar sensors and chassis monitoring, which functions as a “look ahead” to **detect changes in terrain and adjusts the booms accordingly** to maintain spray height for better coverage. Compatible with the Case IH Viper 4+ controller, this system decreases operator fatigue and wear and tear on the machine and increases the accuracy and coverage of the applications. Configure your AutoBoom XRT system with additional sensors to maintain a level spray platform. This will provide the best possible application and maximize boom life.

## ACCURATE SPRAY MAPPING

The As-Applied Map feature **records exactly what is being applied** during application and generates a map for your records and future analysis.

## VIPER 4+ DISPLAY

**Case IH Viper 4+** controller offers a touch-screen interface that displays boom status, application rate and pressure readings. The Viper 4+ features a highly visible 12.1-inch screen and can **function as a stand-alone rate controller or as an integral part of guidance or mapping systems.**



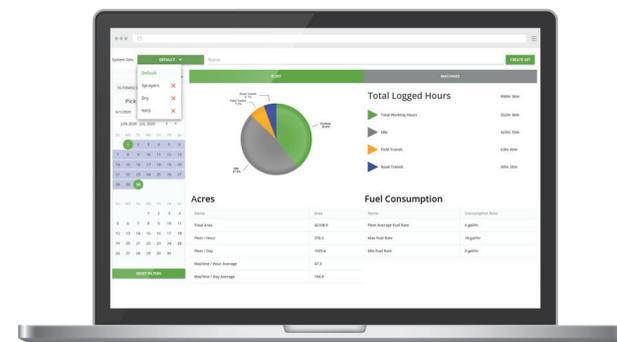
## RS1 AUTOGUIDANCE

Compatible with the Viper 4+ controller, the RS1 guidance package includes guidance, GPS receiver and Slingshot® functionality so you can access your application data from anywhere, wirelessly transfer files, receive over-the-air software updates and view your fleet. RS1 autoguidance also comes with a free five-year Gold Slingshot subscription, which upon activation provides additional features, including **as-applied and prescription map transfer, fleet view, correction streaming and more.** With a Gold level subscription, you'll have access to **remote support** and the ability to **operate multiple Slingshot-connected vehicles** in the same field to share coverage maps and guidance lines.

## SLINGSHOT

- Ensure your machines are set up for the tasks at hand. Plus, with a Slingshot mobile solution, easily view and monitor your vehicles from anywhere.
- With the Slingshot Gold subscription, included with RS1 and SC1 guidance options, these capabilities can maximize your operation's efficiency:
  - **Job Generator:** Set up jobs in the office and dispatch to the Viper 4+ in sprayers out in the field.
  - **Job Sync:** Share live coverage maps and guidance lines between two or more sprayers working in the same field.
  - **Fleet View:** Fleet or operations managers can see sprayer details in real time.
  - **Slingshot Link:** Enables over-the-air updates to the Viper 4+, RS1 and other hardware.

- **File Transfer:** Allows for the transfer of data from sprayer to office and office to sprayer.
- **Remote Support:** Remote, live viewing of the display in the sprayer to aid operators with setup or troubleshooting.





# EFFICIENT POWER, INFINITE SPEEDS

At 390 engine horsepower, the Trident 5550 combination applicator is the most powerful high clearance, row-crop liquid/dry combination applicator available. And thanks to Case IH Efficient Power technology, it generates more power with less fuel for a lower operating cost.

## COOL UNDER PRESSURE

The Trident 5550 combination applicator is the first Case IH application equipment offering with an **electronic viscous fan drive**. This style of fan drive monitors engine temperature, along with temperatures in the other cores in the cooling package, and adjusts the fan speed accordingly. This style of fan drive reduces noise and parasitic horsepower draw.

## TRACTION WHEN AND WHERE YOU NEED IT

Full-time 4WD provides excellent traction in all types of conditions. Individual wheel traction control **improves performance and productivity** by sensing slip and countering trouble by regulating oil flow at each wheel motor to help the machine power through those tough spots.

## ADJUST YOUR SPEED WITH EASE

Infinitely adjust travel speeds using the **in-cab speed control knob**. Simply rotate the speed control to adjust the top travel speed range. This can help maintain appropriate load:speed ratios whether in the field or in transit.

## HYDROSTATIC DRIVE PUTS YOU IN COMPLETE CONTROL

The hydrostatic drive on the Trident 5550 provides **infinitely variable speed control**. Each time the hydrostatic operating lever returns to neutral, wheel motor swash plates return to their maximum angle, allowing maximum torque for each start.

## BRAKING OPTIONS

- In most situations, the hydrostatic drive provides all the braking power you need.
  - Primary brakes—hydrostatic drive
  - Service brakes—in-cab pedal activates service brakes in all four planetary hubs
  - Parking brakes—spring-applied; pressure released

## THE HIGHEST HORSEPOWER HIGH CLEARANCE COMBINATION APPLICATOR AVAILABLE

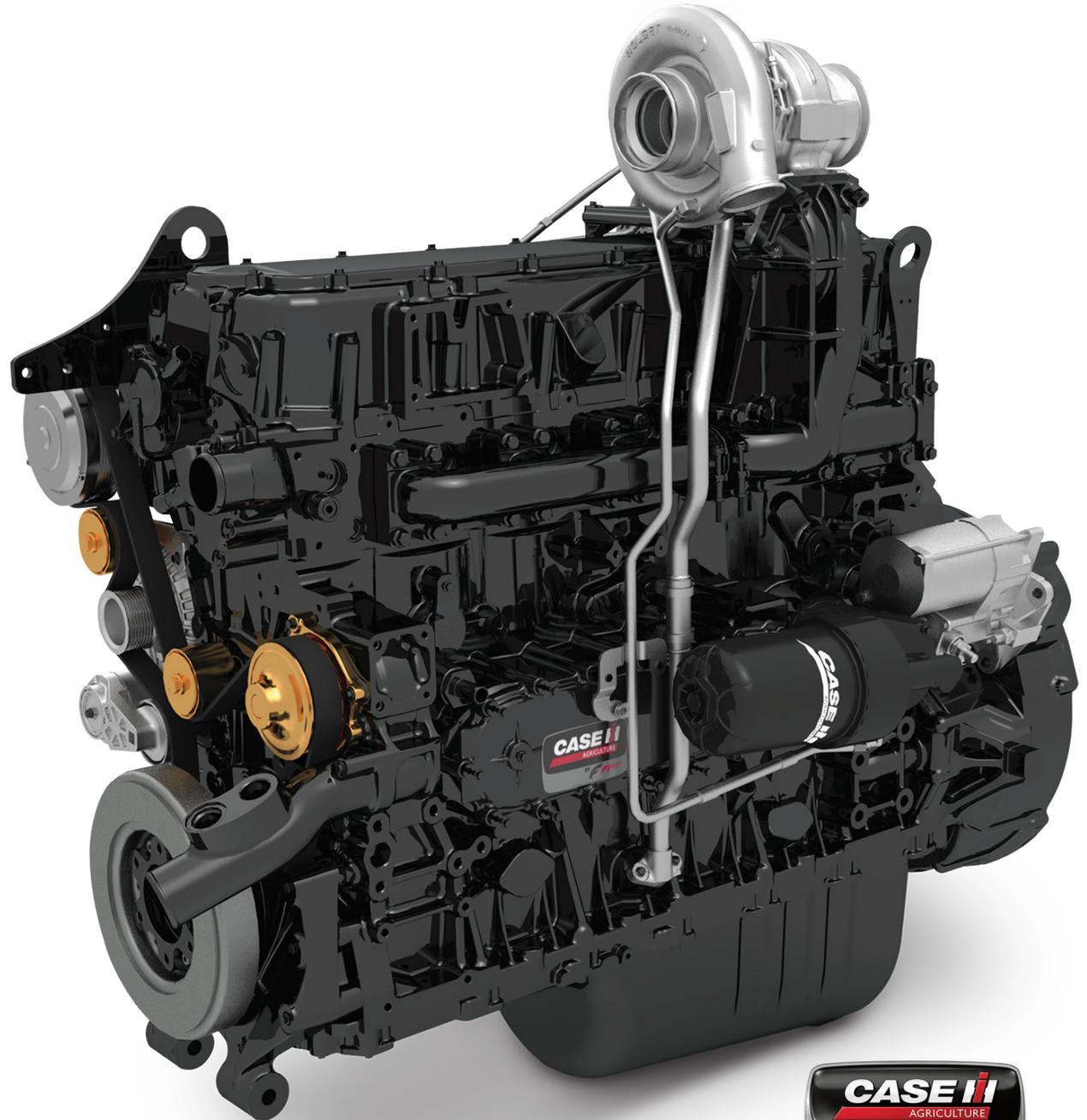
- 390 rated horsepower
- 415 peak horsepower at 2,000 engine RPM
- 1,257 ft. lb. peak torque

## TIER 4 B/FINAL WITH SCR TECHNOLOGY

**Selective Catalytic Reduction (SCR)** is a simple system that **maximizes engine power** and treats exhaust gases to eliminate pollutants. The result: engines with more power, greater fuel economy and increased durability and reliability and longer service intervals. SCR is **the most efficient and powerful diesel emission-control technology available.**

## HIGH CAPACITIES TO KEEP YOU ROLLING

- Maximizing uptime and minimizing downtime is one of the best ways to ensure the best return possible on your equipment investment. Less time spent refueling and more time spreading or spraying is a perfect example—and one the Trident 5550 embodies.
  - 150-gal. fuel capacity, via two connected 75-gallon tanks
  - 21-gal. Diesel Exhaust Fluid (DEF) tank capacity
  - 600-hour oil change interval



▲ 8.7L engine



# VERSATILITY THAT ADAPTS TO YOUR NEEDS

Our innovation philosophy centers on incorporating technology that simplifies and enhances efficiency. We are deliberate in our advancements to elevate, not complicate. You know that you must focus on achieving the highest level of efficiency if you want to grow and succeed and, most importantly, feed the world. We know that by intensifying our emphasis on advanced technologies and agronomic design, we can continually advance High-Efficiency Farming.

Protecting yield potential requires a high-level of precision in product application at the right time, even when conditions squeeze treatment windows. Our advanced innovation puts the operator in control of the crop cycle to maximize year-round production with timely, accurate and reliable applications.

When you rethink your application equipment's potential, each growing season presents a new opportunity to boost productivity and profitability.

## HERE'S HOW THE TRIDENT 5550 LIQUID/DRY COMBINATION APPLICATOR HELPS YOU RE THINK PRODUCTIVITY IN YOUR OPERATION:

At Case IH, we carefully tailor solutions with an operators needs in focus, providing them with all the tools necessary for a high-efficiency crop-production environment, all achieved with minimal effort on their part.

- **Maintain accuracy at your speed:** Drive according to ground conditions without sacrificing accurate coverage, thanks to infinitely variable speed via hydrostatic drive—keeping you in complete control.
- **Embrace versatility:** More than just a sprayer or spreader, start viewing your combination applicator as a crop-improvement tool to both protect and feed your fields, through three seasons of use.
- **Work as a system:** From fertility to spraying to harvest, use Viper 4+ and RS1 receiver mapping and records technology to pinpoint areas for improvement.
- **Get in fields faster:** A larger footprint on the ground can help make wet fields more accessible and reduce soil compaction. The Trident 5550 is the first applicator featuring factory-available duals in row crop tire sizes.
- **Minimize variables:** Advanced liquid and dry application technology keeps application rates constant through irregular-shape fields—reducing over- or under-application and potential crop damage.
- **Manage inputs:** Save on inputs with advanced application technology that reduces skips, overlaps and accommodates for turns.



## TRIDENT 5550 LIQUID/DRY COMBINATION APPLICATOR SPECIFICATIONS

TRIDENT 5550 CHASSIS	
Engine	Case IH FPT 8.7L (531 cu. in.) 6-cylinder, 390 rated hp (291 kW), 415 peak hp (310 kW), 1,257 ft-lb. (1,705 Nm) peak torque, turbocharged, after-cooled, electronically controlled diesel, Tier 4 B/Final.
Drive	Hydrostatic with full-time 4-wheel drive, infinitely variable speed control returns wheel motor swash plates to maximum angle each time the hydro lever is returned to neutral. Allows maximum torque for each start.
Wheel Track Adjustment	120–160 in. (305–406 cm) hydraulically adjusted from the cab. Adjustments can be made in .5 in. (1.27 cm) increments.
Travel Speed	40 mph (64 kph) in transport; 25 mph (40 kph) in field mode
Dry Weight*	Chassis only: 26,240 lb. (11,902 kg); Chassis with New Leader dry spinner applicator: 31,100 lb. (14,107 kg); Chassis with Trident Liquid System (120-ft. boom): 35,670 lb. (16,180 kg)
Overall Length	31 ft. 10 1/2 in. (9.72 m) - equipped with Trident 5550 Liquid System & 120-ft. boom; 30 ft. 3 3/4 in. (9.24 m) - equipped with New Leader dry spinner applicator
Overall Height	Suspension deflated: 12 ft. 9 3/4 in. (3.91 m); Suspension at standard ride height: 13 ft. 1 3/4 in. (4.01 m)
Overall Width	13 ft. 9 3/4 in. (4.21 m) - equipped with 710/60R46 tires
Wheelbase	170 in. (432 cm)
Tire Size	Available with 320/105R54 (duals only), 380/105R50 (single or duals), 420/95R50 (single or duals), 480/80R50 (single or duals), 710/60R46, LSW800/55R46
Ground Clearance	53 in. (135 cm)
Turning Radius	26 ft. 1 in. (7.96 m) from center line of rear axle
Suspension	Pneumatic suspension that acts independently at each wheel.
Fuel Tank / DEF Tank	150 gal. (568 L) through (2) 75-gallon connected tanks / 21 gal. (79 L)
Sprayer / Spreader Control	Case IH Viper 4+
TRIDENT 5550 LIQUID SYSTEM	
Solution Tank Size	1,400 gal. (5,300 L) or 1,600 gal. (6,056 L) stainless steel
Nozzle Spacing	20 in. (50.8 cm) off-center or 20-30 in. (50.8-76.2 cm) with 30 in. (76.2 cm) on-center
Boom Length	60/90 ft. (18.3/27.4 m), 60/100 ft. (18.3/30.5 m), 60/90/120 ft. (18.3/27.4/36.5 m), 69/135 ft. (21/41.1 m) self-centering
Boom Adjustment Height	24–84 in. (61–213 cm)
Full Boom Breakaway	30 degrees
Wingtip Breakaway	90-ft. boom: 5 ft. 6 in. (1.7 m); 100-ft. boom: 10 ft. 6 in. (3.2 m); 120-ft. boom: 9 ft. (2.7 m); 135-ft. boom: 9 ft. 6 in. (2.9 m)
Product Pump	Pulse width modulated controlled centrifugal pump—hydraulic motor driven by product control system
Foam Marker	55 gal. (208 L) high-volume foam marker system. Air supply taken from engine-driven air compressor.

\* Weights may vary depending on unit configuration and options chosen.



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