



# EARLY RISER<sup>®</sup>

2000 SERIES PLANTERS







## NEXT-GENERATION PLANTING TECHNOLOGY.

The new 2000 series Early Riser planter combines the industry's most accurate planter technologies with an all-new rugged row unit for fast and uniform emergence. This next-generation technology, along with the ease of use you need to meet optimal planting windows, gives your crop the best opportunity to achieve its full yield potential.

### 2000 SERIES EARLY RISER PLANTER

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# ACHIEVE ACCURACY AT YOUR SPEED.

As we designed and developed the new 2000 Series Early Riser Planter, we visited farms and talked to producers across the country. We gathered input from our Case IH dealers and field specialists. We know you measure planting speed in more than just miles per hour. **It's acres planted that continues to be important.** That's why we redesigned the Early Riser planter, starting with the industry-leading row unit and making it even better so you can spend more of your day planting.

Speed (Miles per Hour)	Acres Planted/Hour <sup>1</sup>	Acres Planted in 10 Planting Days <sup>2</sup>
6	25.2	2,016
8	32.2	2,576
10	38.6	3,088

<sup>1</sup> 80-acre field planted with 16-row planter, 30-inch row spacing, tendering 100-bushel seed hopper for 34,000 population, and a 400-gallon liquid fertilizer tank applying 5 gallons per acre. Factors in headland turning.

<sup>2</sup> 8 hours per day spent in the field planting.

Not all fields are postcard perfect or workbench level. Not all soils are mellow sandy loam. Residue conditions vary. The new 2000 series Early Riser planter quickly knows and accommodates these differences. It is consistently accurate, whether planting laser-straight, mile-square sections at 10 miles per hour or a ruggedly contoured 20-acre plot at a slower pace. But it's about more than ground speed. At your speed from 4 to 10 mph, with your tillage practices and adjustments for your conditions. It's how you get the most yield out of your fields.





## THE 2000 SERIES PLANTER ADVANTAGES.

### HIGH-EFFICIENCY OPENS UP YOUR PLANTING WINDOW.

Think about it this way: depending on conditions, you may only get 10 ideal days to plant 3,000 acres. If you plant at 6 mph, you'll have to plant approximately one-third of your crop on less-than-ideal days. With so many factors at play, one thing remains constant: optimal conditions give us a much better chance of achieving optimal results. Reference the chart on the opposite page to see how planting speed can impact your productivity.

### BUILT TO YOUR SPECS. PRECISELY.

Direct from the factory, each 2000 series Early Riser planter is configured to meet your specific needs and fit perfectly into your cropping practices. You can customize your planter, like never before, to your farm's soil types, terrain, fertilizer and chemical application needs, and crop residue management preferences.

### TOOL-FREE ADJUSTMENTS. EASY MAINTENANCE.

- Many components – including the metering system and row unit settings – provide tool-free crop changes and adjustments.
- A streamlined design makes service access easy and simplifies adjustments.
- We've eliminated all the mechanical components – hex shafts, bearings, couplers, sprockets, chains and clutches – needed to turn a conventional planter. Fewer things to go wrong. Reduced, simpler maintenance.

### ADVANTAGES

- Combines an all-new rugged row unit with the industry's most accurate planting technologies
- Quickly adapts to meet unique field conditions
- Consistently accurate – no matter the speed or conditions
- Customized direct from the factory to meet any soil types and cropping practice
- Tool-free crop changes and adjustments for easier serviceability



Pulled gauge wheel



Depth control



Two-stage closing system

## A RUGGED ROW UNIT BUILT FOR SPEED AND ACCURACY.

### WHERE SPEED, PRECISION & PERFORMANCE MEET.

Even when operating in the best conditions, higher speeds increase wear and tear on equipment. **Heavy-duty cast components**, including the row-unit frame, lower parallel links and maintenance-free pulled gauge wheel arms, help the 2000 series stand up to high speeds and tough, fast-changing conditions. A 26-inch toolbar clearance, plus 16 inches of row-unit vertical travel help maintain accuracy on the most rugged ground, and at higher speeds.

Where seed meets soil, larger (15-inch diameter), heavier (4.5 millimeters thick) **Earth Metal® blades** provide long-lasting durability. An agronomic offset design helps blades slice through tough crop residue and hard soils to reduce residue “hairpinning.”

A new furrow forming point creates a clean, V-shaped trench while the seed protection shoe prevents loose sidewall from collapsing in. Together they create the

**industry's only flat bottom seed trench** for accurate and uniform seed depth and placement.

**Pulled gauge wheels** ride up and over obstacles, as opposed to hitting and bouncing over them – similar to a wheel barrow being pulled vs. pushed – while at the same time minimizing row unit vertical travel. Less row unit bounce allows for more accurate and uniformly correct seed depth placement across the planter and throughout the field.

Recent field testing shows our industry-leading new Early Riser planter row unit is where speed, precision and performance meet. The unit is high-speed capable while delivering accurate seed placement, net effective stand and harvest data.

### ADVANTAGES

- Heavy-duty cast components stand up to high speeds and tough conditions
- 26-inch toolbar clearance, plus a 60% increase in vertical row unit travel maintain accuracy
- Larger, heavier Earth Metal blades provide long-lasting durability
- Industry's only flat-bottom seed trench provides proper depth and more consistent seed placement
- Exclusive pulled gauge wheels and their soil-relief grooves eliminate sidewall compaction
- A simple, accessible T-handle depth adjustment makes changing seeding depth quick and easy
- In-cab adjustment of closing disk down pressure option, and easy to adjust spring settings.





# WE RETHOUGHT EVERY INCH TO GIVE YOU MORE OUT OF EVERY ACRE.

From your tractor cab to the bottom of the seed trench, take a look at how the new 2000 series Early Riser planter can help you be more productive.

## ■ Bulk Fill Seed Feeding System

Two 50-bushel hoppers provide reliable seed delivery from the tank to the mini-hopper – no matter the seed population.

- Optional 1.9-bushel, on-row individual hoppers also are available. (not shown)

## ■ Frame (Wing Down Force)

In-cab controlled hydraulic wing down force provides additional down force and stability for the wing frames.

- Increased row unit travel (+/- 8 vertical inches) and toolbar height (26 inches) allow you to plant in varying conditions including steep terrain and terraces.

## ■ Fertilizer Options

A new liquid fertilizer system delivers accurate application at a broad speed range. Factory-installed seed fertilizer combinations are also available, including 400-gallon tank with bulk fill seed, or 600-gallon tank with on-row seed hoppers.

- Precise application with row-by-row shut-offs available

## ■ Chemical Application

Deliver granular insecticide in-furrow via the AMVAC SmartBox® option, which ensures minimal exposure to insecticides while providing superior crop protection.

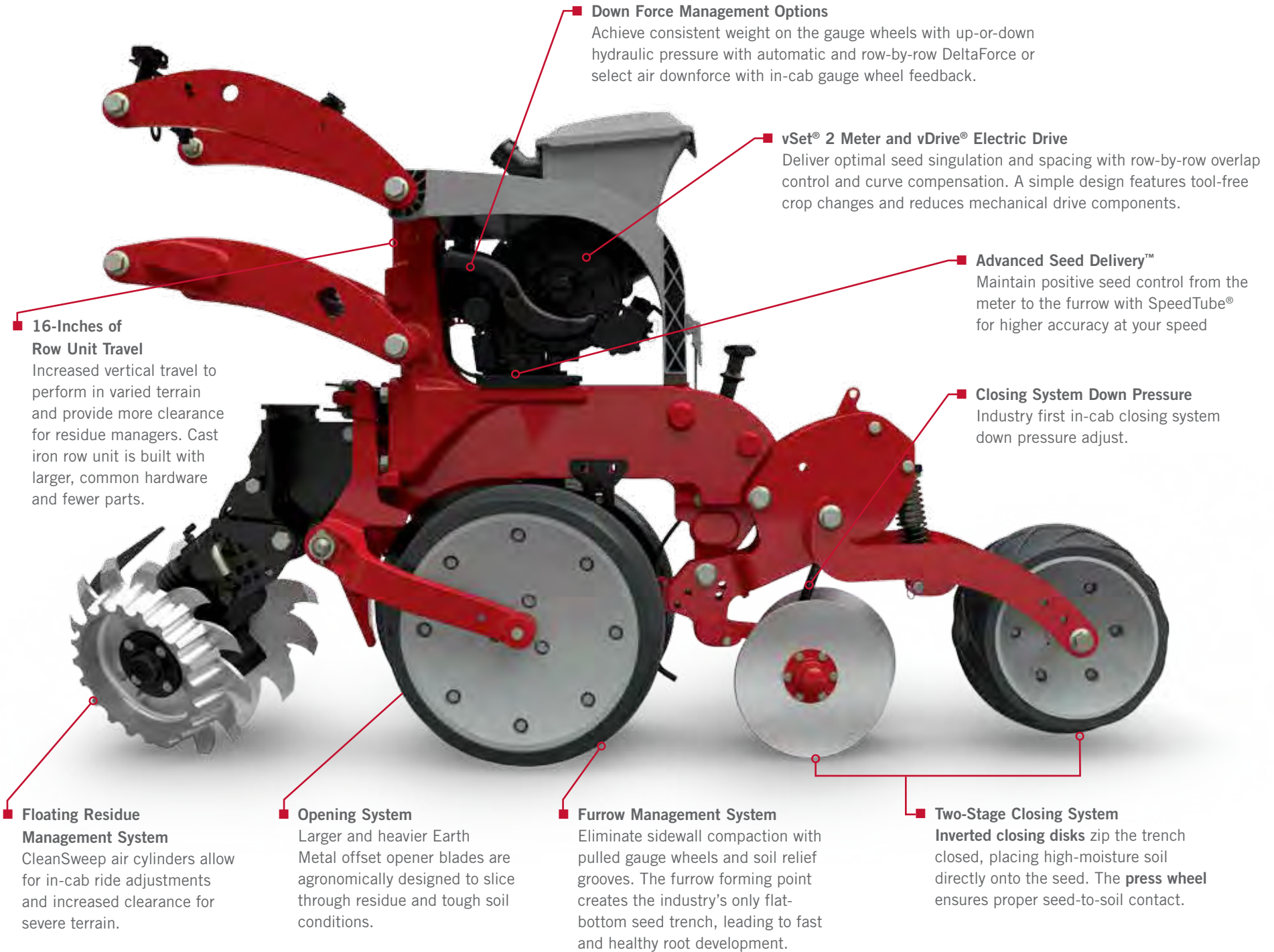
- Minimize misapplication with in-cab controls available through your AFS Pro 700 monitor.
- Row-by-row overlap control with built in blockage sensing

## ■ In-Cab Planter Control System

From your AFS Pro 700 monitor, turn to Advanced Seed Information™ (ASI) monitor and map seed singulation, spacing, and Seed Release Index spacing live.

- Make necessary changes on the go, including CleanSweep® and down force adjustments as well as changing closing system down pressure and wing down force.





■ **Down Force Management Options**

Achieve consistent weight on the gauge wheels with up-or-down hydraulic pressure with automatic and row-by-row DeltaForce or select air downforce with in-cab gauge wheel feedback.

■ **vSet® 2 Meter and vDrive® Electric Drive**

Deliver optimal seed singulation and spacing with row-by-row overlap control and curve compensation. A simple design features tool-free crop changes and reduces mechanical drive components.

■ **Advanced Seed Delivery™**

Maintain positive seed control from the meter to the furrow with SpeedTube® for higher accuracy at your speed

■ **Closing System Down Pressure**

Industry first in-cab closing system down pressure adjust.

■ **Two-Stage Closing System**

**Inverted closing disks** zip the trench closed, placing high-moisture soil directly onto the seed. The **press wheel** ensures proper seed-to-soil contact.

■ **Furrow Management System**

Eliminate sidewall compaction with pulled gauge wheels and soil relief grooves. The furrow forming point creates the industry's only flat-bottom seed trench, leading to fast and healthy root development.

■ **Opening System**

Larger and heavier Earth Metal offset opener blades are agronomically designed to slice through residue and tough soil conditions.

■ **16-Inches of Row Unit Travel**

Increased vertical travel to perform in varied terrain and provide more clearance for residue managers. Cast iron row unit is built with larger, common hardware and fewer parts.

■ **Floating Residue Management System**

CleanSweep air cylinders allow for in-cab ride adjustments and increased clearance for severe terrain.





## FACTORY-INTEGRATED PRECISION TECHNOLOGY.

### THE ONLY PLANTER WITH BUILT-IN PRECISION PLANTING®.

DeltaForce hydraulic down force gives you ultimate row-by-row control. DeltaForce automatically provides the required up or down pressure to achieve consistent weight on the gauge wheels, resulting in the most accurate seed depth across varying soil conditions and at varying speeds. Only DeltaForce can – in effect – remove weight by applying lift weight to the row unit to optimize seed placement in soft soil.

DeltaForce measures gauge wheel load 200 times per second and makes the hydraulic adjustments to add or remove weight five times every second. This helps keep row unit ride consistent – row-by-row, automatically – for optimal and accurate seed placement and higher yield potential.

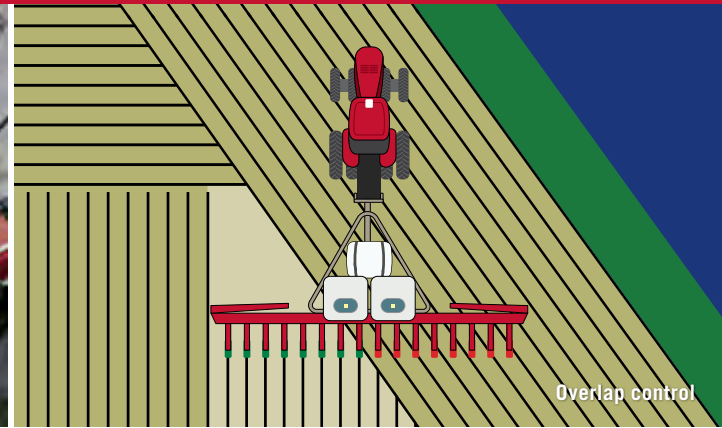
### CROP RESIDUE MANAGEMENT.

The 2000 series planters feature floating residue managers with an air cylinder that allows for in-cab adjustments to help you manage residue to capture its agronomic and economic benefits and improve emergence. **CleanSweep** air cylinders let you adjust the ride of the residue managers from the AFS Pro 700 control center in the tractor cab. Add down pressure for tougher no-till conditions, or add up pressure for soft and mellow conditions. Air cylinders provide flexibility and enhanced performance to clear residue, resulting in improved emergence, without going too deep and creating trenches.

### PRECISION PLANTING ADVANTAGES

- Only planter engineered and built with Precision Planting technology
- DeltaForce provides the most accurate seed depth across varying soil conditions
- CleanSweep air cylinders provide flexibility and enhanced performance to clear residue and improve emergence
- All-new vSet 2 meter and vDrive electric drive allow precise per-row seed metering (See page 12 for details.)
- Advanced Seed Delivery option includes the new SpeedTube™ from Precision Planting, eliminating drop and tumble variability (See page 12 for details.)

# SUPERIOR SINGULATION. OPTIMAL PLACEMENT.



## ELECTRIC DRIVE SIMPLICITY.

To achieve the perfect picket fence stand, you need a seed meter capable of delivering accurate and consistent seed singulation, populations and in-row spacing. The all-new seed meter and electric drive at the heart of the new 2000 series Early Riser planter row unit do just that. And it does it at your speed.

The **vSet 2 meter** and **vDrive electric drive** provide precise per-row seed metering with simplicity and less maintenance. The new mini-hopper and its single air-intake screen are easy to access and clean. In fact, the entire seed meter offers fast, easy and, yes, tool-free maintenance and adjustments – even when switching between crops.

## INTRODUCING ADVANCED SEED DELIVERY.

For the most accurate seed delivery and placement to and in the trench, the 2000 series **Advanced Seed Delivery (ASD)** option includes the new SpeedTube from Precision Planting. Available for corn and soybeans, the SpeedTube™ uses a flighted belt to control the delivery of the seed from the meter to the furrow, eliminating the drop and tumble variability of traditional gravity drop tubes, especially at high speeds.

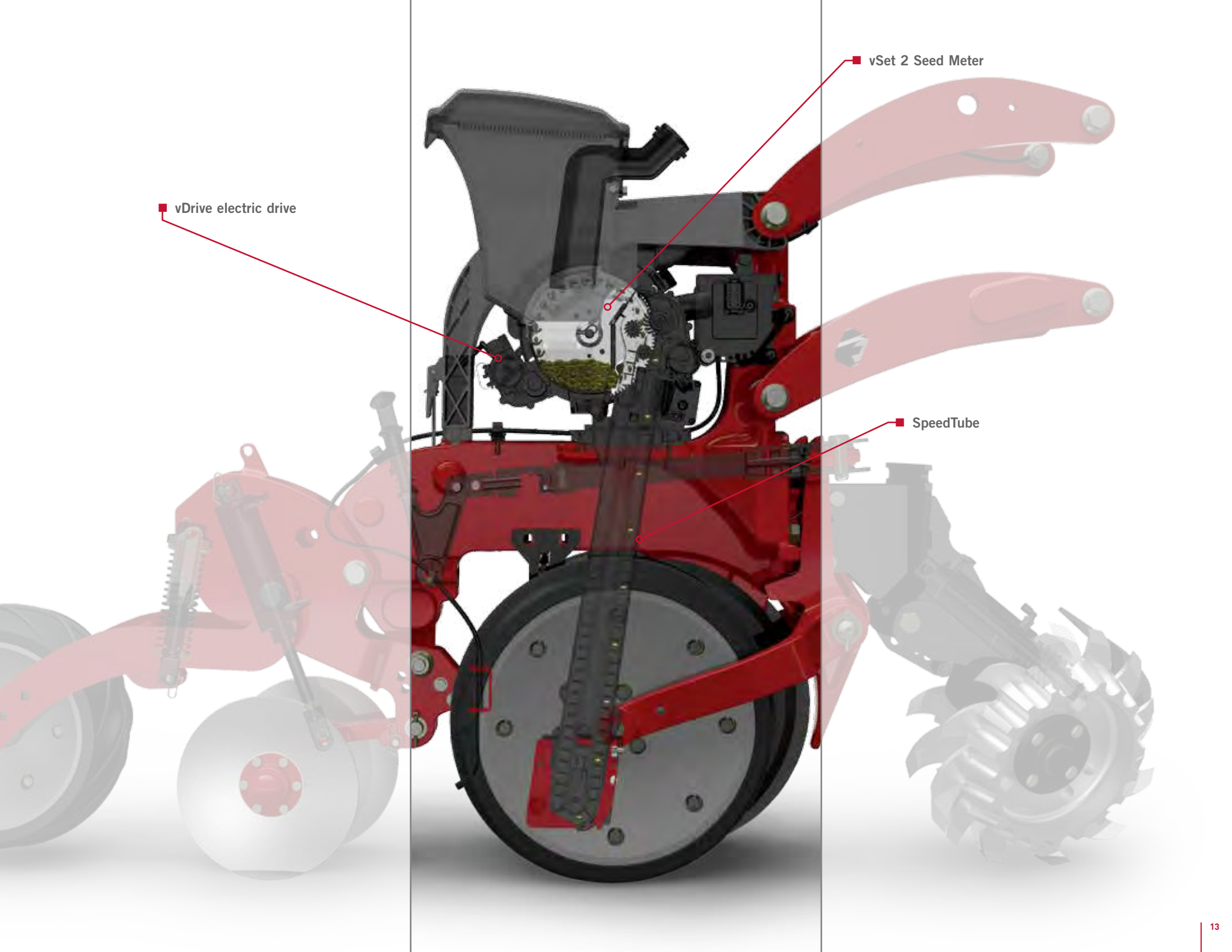
The **SpeedTube** belt moves at a rate that increases and decreases with planter speed, ensuring optimal seed spacing by reducing any tumbling of the seed in the furrow. As part of the **Advanced Seed Information (ASI)™** system, which gives you detailed seed placement information, the seed sensor operates in a clean environment to help give you confidence that all systems are performing optimally.

## CONSISTENT IN CURVES AND CONTOURS.

Row-by-row control on the new 2000 series Early Riser planter is similar to having individual planters along the toolbar delivering accuracy in all types of fields.

With **Curve Compensation**, each row's seed meter adjusts independently around contours and irregularly shaped fields to provide consistent seed spacing whether the row unit is inside or outside the turn.

**Overlap Control** (illustrated above) eliminates overspending on inputs by stopping seed delivery when the unit reaches previously planted ground. This also enhances agronomic yield potential by delivering the correct plant population. And the unit accomplishes this without clutches, which results in less maintenance.



■ vDrive electric drive

■ vSet 2 Seed Meter

■ SpeedTube



16 inches of vertical travel



Single wing tire

# QUICKLY ADAPTS TO MEET UNIQUE FIELD CONDITIONS.

## HIGHLY RESPONSIVE PLANTER.

The heavy-duty design and components provide excellent row-unit stability for truer travel on hillsides and around curves.

The **high-clearance frame** and increased row-unit **vertical travel** accommodates rapid terrain changes without sacrificing accurate seed depth for more consistency across more varied terrain. Residue managers have more room to work, and there's more relief – and reduced likelihood of damage – for stubborn obstacles like rocks.

## ACCOMMODATE RAPID TERRAIN CHANGES.

An optional **wing down-force control** on the 2000 series provides additional vertical stability to the toolbar wings. This helps row units remain in position and ready to respond to changing terrain, providing greater depth control consistency and improved ride and stability at higher planting speeds. In-cab AFS Pro 700 controls allow you to conveniently tailor settings on the go as field conditions dictate.

## DECREASE COMPACTION.

We designed the new 2000 series Early Riser planters with any eye on minimizing soil compaction. **Fewer tires on the 16-row model reduce wheel traffic.** This also reduces the number of pinch rows – minimizing the chance of soil compaction, especially in a wet spring. **VF radial tires** carry loads more uniformly across their footprint, reducing compaction.



(Hydraulically Driven) Air compressor



(Speed Adjust) Vacuum



(200 Amp standard) Alternator

## FULLY INTEGRATED SYSTEMS MEAN EASIER OPERATION AND MAXIMUM EFFICIENCY.

### AUTOMATED SYSTEMS = SPEED AND EASE.

You need reliable systems that are matched to your planter's capacity and can meet the demands of high speed planting. The vacuum, air, hydraulic and power systems provide the vital components that keep the planter planting. Plus, the automatic speed-adjusted vacuum control accommodates changing speeds. **BONUS:** Reduced power requirements help tractors run more efficiently.

### PLANTER CONTROL SYSTEMS.

When you're hopping on and off the tractor making adjustments, you're not planting. Spend more time in the cab planting with the new 2000 series Early Riser planters. Get total planter control and continuous planter performance feedback using the **Case IH Advanced Farming Systems (AFS) Pro 700 display**. Add the **Advanced Seed Information (ASI)** option for detailed seed placement information and/or **AFS Connect** 2-way file transfer so that you can share your planter data with your home computer or a trusted adviser.





# TAKE CONTROL OF YOUR FARM'S POTENTIAL.



Case IH Advanced Farming Systems (AFS) and AFS Connect™ deliver an integrated precision farming solution that gives you more control over every operation than ever before. From managing inputs during field preparation, planting and growing, to monitoring yield and moisture at harvest – you control the entire crop production cycle. Whether you use one component of AFS or manage your entire fleet with AFS Connect, you'll reduce waste, increase overall efficiency and uncover opportunities that turn potential into profit with Case IH.

The AFS Pro 700 display runs six screens on a single monitor that allow you to control key machine functions.

## AFS PRO 700 CONTROL CENTER

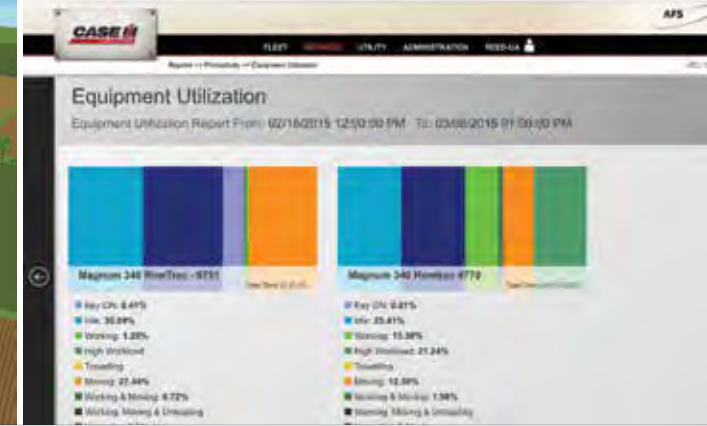
AFS uses a single, integrated display with a common interface across all platforms of your Case IH equipment – the AFS Pro 700. Intuitive, customizable and easy-to-read, the display runs up to 6 screens for controlling key equipment functions.



## KEY FEATURES OF THE AFS PRO 700 DISPLAY

- Single, integrated color touchscreen display – standard on most Case IH equipment.
- Integrated Precision Planting component control.
- Monitor and control Case IH vehicles and implements.
- Record important data and maps to use for future management decisions.
- Operates six run screens that allow you to configure what you want to monitor and/or control.
- Provides three video inputs to: monitor implements and seed tank level, ease vehicle back-up and increase safety.
- Adjusts screen brightness for night visibility.





## 2000 Series Planters - AFS Pro 700 Controlled Systems

Item/System Description	Controlled through the AFS Pro 700
Advanced Seed Information™	✓
Advanced Seed Delivery™ (SpeedTube)	✓
vSet® 2 & vDrive electric seed meter	✓
DeltaForce hydraulic down force control	✓
CleanSweep residue manager ride	✓
SmartBox™	✓
Liquid fertilizer control	✓

Item/System Description (cont.)	Controlled through the AFS Pro 700
Wing down pressure system	✓
In-cab closing system pressure	✓
Planter mounted alternator	✓
Power Distribution Module (PDM)	✓
Single Row Module (SRM)	✓
Gauge Wheel Load Cell feedback	✓

## AFS CONNECT

AFS Connect\* advanced farm management system gives you instant access to information for every machine in your fleet – including machine location, diagnostics, and fuel and engine stats. Use it to manage operator and equipment performance, and monitor real-time data to make informed decisions that impact your bottom line.



## KEY FEATURES OF AFS CONNECT

- **Cellular RTK Guidance (NTRIP)** delivers guidance correction to a reliable sub-inch accuracy, year over year, using AFS Connect hardware.
- **Fleet Management** pinpoints the exact location of each machine.
- **Machine Dashboard Monitoring** allows you to view real-time machine parameters from a remote location. Monitor engine speed, oil temperature, coolant temperature and level, hydraulic oil temperature and pressure, fuel and more.
- **Vehicle and/or Implement Data Monitoring** let you view real-time equipment performance data, including: moisture, singulation, target rates, acres planted, engine speed and more.
- **2-Way File Transfer** helps you transport AFS data easily to your home office or trusted adviser and upload prescriptions directly to your machines.
- **Graphic Reports** show area worked, yield average, flow average, moisture average and more.
- **Custom Alerts** allow you to create alerts for maintenance, geofencing, curfew and more.

\*AFS Connect system sold separately. Ask your Case IH dealer for details.

# AFS technology in the field.

## PLANTING

Maximize your yield potential by controlling application rates. Reduce plant crowding with automatic row-by-row overlap control and keep track of what you've planted with AFS Mapping & Records. And when you're not in the driver's seat, view planter performance remotely and set custom alerts to ensure your equipment is working at peak performance.



### DATA MANAGEMENT

#### ■ AFS Mapping & Records (AFS)

Maximize yield potential and minimize input costs by producing a prescription based on soil characteristics and previous yields. Then, upload your prescription directly to machines using AFS Connect.

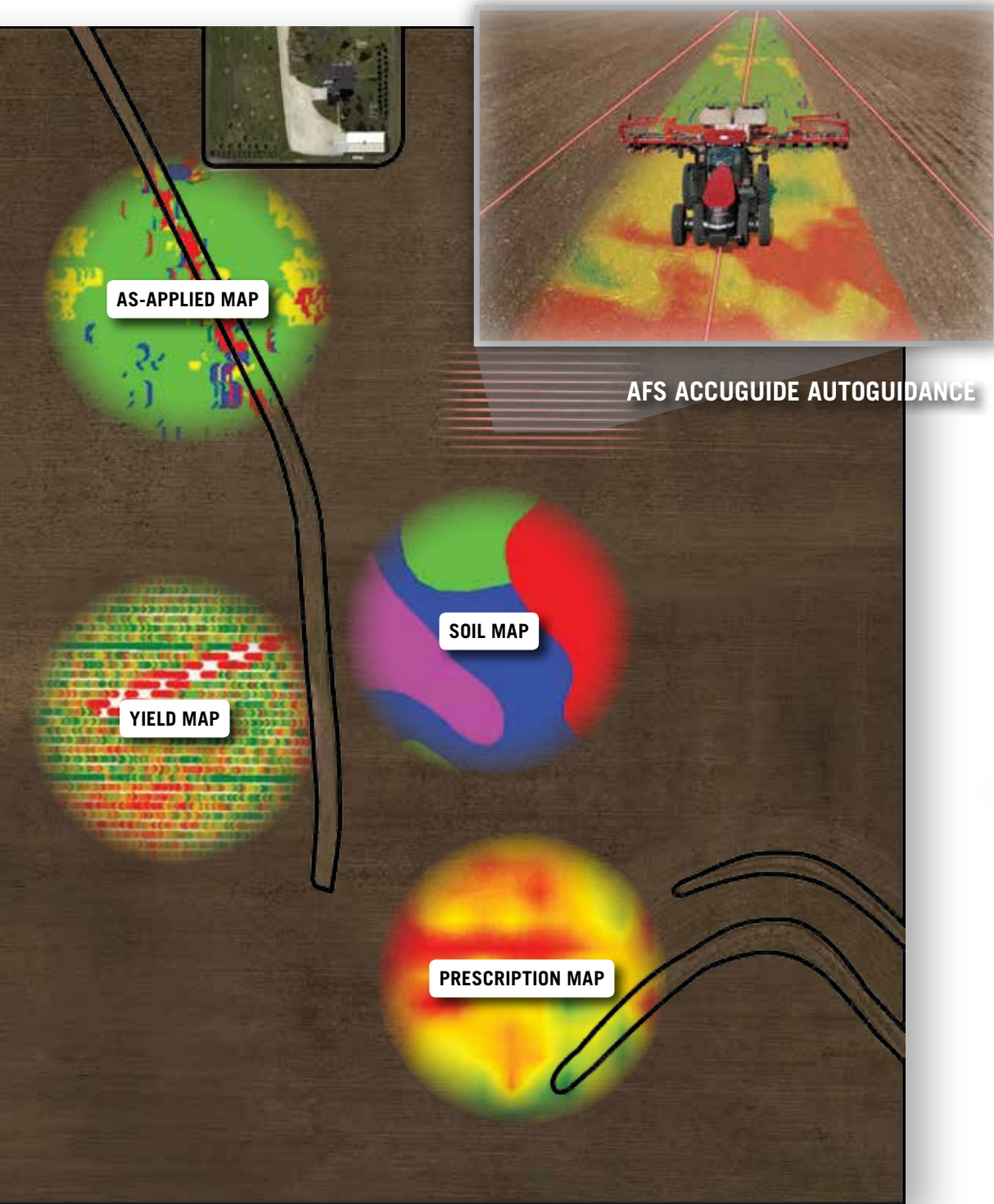
- **Soil Map** Analyze your soil characteristics to determine the best population and seeding rates for different soil types or nutrients available.
- **Yield Map** Analyze last year's yield map to help determine the best population and seeding rates based on the yield potential in your field.
- **Prescription Map** Generate a planting prescription map using last year's yield data and soil characteristics to maximize yield potential and minimize input costs. Transfer the prescription directly to your machine using 2-Way File Transfer with AFS Connect.
- **As-Applied Map** Generate a map during planting to record rates for personal records and future analysis.
- **Boundary Map** Use existing boundary maps to ensure correct seed placement throughout the field and to view information such as: total acres planted, total acres remaining, and time remaining.

#### ■ 2-Way File Transfer (AFS Connect)

Transfer as-applied data to your home computer or a trusted adviser.



BOUNDARY MAP



## EQUIPMENT EFFICIENCIES

- **AFS AccuGuide™ Autoguidance (AFS)**  
Minimize skips and overlaps to save on input, fuel and labor costs – plus, fewer passes in the field reduce soil compaction. *Try the “Headlands Last” guidance pattern.*
- **In-Cab Planter Control System (AFS)**  
Use Advanced Seed Information™ (ASI) to monitor and map seed spacing live. Make necessary changes on the go, including CleanSweep® and DeltaForce® adjustments as well as adjusting closing system down pressure and wing down force.
- **Liquid Fertilizer Control (AFS)**  
Monitor liquid fertilizer system pressure in-cab through the AFS Pro 700.

## LOGISTICS OPTIMIZATION

- **Machine Dashboard Monitoring (AFS Connect)**  
View planter parameters remotely to ensure proper seed placement.



- **Fleet Management (AFS Connect)**  
Coordinate machine logistics to efficiently manage refueling, refilling and maintenance during tight planting windows.
- **Custom Alerts (AFS Connect)**  
Set alerts to warn if parameters fall outside acceptable ranges – including skips, singulation, doubles and more.
- **Cellular RTK Guidance (NTRIP) (AFS Connect)**  
Obtain sub-inch correction guidance accuracy for less overlap and minimized plant crowding.



## CUSTOMIZABLE OPTIONS FOR YOUR PERSONAL PLANTER.

### FERTILIZER APPLICATION OPTIONS.

The new liquid fertilizer system is designed for high-speed planting. The centrifugal pump accurately delivers a broad application rate range (low rate: 3-8 gallons per acre; high rate: 10 to 25 gallons per acre) for precise control in a wider speed range (4 to 10 mph).

You can monitor system pressure in-cab through the AFS Pro 700. The system features a new wet boom and three section controls. Or go with the available row-by-row overlap control option.

- Factory-installed seed-fertilizer combination units feature a 400-gallon bulk-fill tank plus a bulk-fill seed hopper.
- A 600-gallon bulk-fill fertilizer tank is available on planters outfitted with on-row seed hoppers. Or go with the available rear-hitch option to pull fertilizer carts and caddies.
- Factory-installed liquid fertilizer tanks come standard with a built-in agitation nozzle.
- The low-rate delivery option can be paired with the factory-installed in-furrow delivery system.

### CROP PROTECTION.

The new 2000 series Early Riser planter delivers granular insecticide in-furrow via the available AMVAC SmartBox® option. A closed on-row system, SmartBox helps minimize exposure to granular insecticides while providing superior crop protection.

The SmartBox features electronically controlled metering that provides precise application while adjusting for changes in ground speed. You can control the SmartBox in-cab with your AFS Pro 700. Row-by-row overlap control and positive end-of-row shutoff minimize misapplication and waste.



#### ADVANTAGES

- New liquid fertilizer system features a centrifugal pump to accurately deliver broad application rates
- Factory-installed bulk seed-fertilizer combination units feature a 400-gallon bulk-fill tank
- 600-gallon bulk-fill fertilizer tank with on-row seed hoppers
- Delivers granular insecticide in-furrow via the optional AMVAC SmartBox®
- SmartBox includes electronically controlled metering for precise application and blockage sensing
- Row-by-row shut-offs standard for granular chemical and optional for liquid fertilizer

MODELS	2150 EARLY RISER FRONT FOLD PLANTER		
<b>SPECIFICATIONS</b>			
Rows	12	16	24
Spacing	30 in. (762 mm)		
Section Flex Points	3R-6R-3R	5R-6R-5R	8R-8R-8R
Wing Flex	+/- 21 degrees		
Toolbar Operating Height	26 in. (660 mm)		
Transport L x W x H (includes 2-Point Hitch, Bulk Fill w/ Scales, 2-Stage Closing, no Gran Chem)	33' 7" x 12' 4" x 11' 5" (10.2 m x 3.8 m x 3.5 m)		46' x 12' 6" x 11' 8" (14 m x 3.8 m x 3.6 m)
<b>HITCH</b>			
2-Point Hitch	Standard		
Hydraulic Drawbar	N/A	Available	
<b>FLOTATION</b>			
Radial Tires	VF 245/70R19.5		VF 295/75R22.5
Tire Arrangement	1-4-1		2-4-2
<b>SEED FEEDING SYSTEM</b>			
On Row Hopper	Available - 1.9 bu. per Row		
Bulk Fill w/o Scales	Standard - 100 bu. total		Standard - 120 bu. total
Bulk Fill w/ Scales	Available - 100 bu. total		Available - 120 bu. total
<b>SEED DELIVERY SYSTEM</b>			
Electric Drive Vacuum Seed Meter	Standard - vSet® 2 vacuum seed meter w/ vDrive® electric drive motor		
Seed Tube / Hy Rate Plus™ Seed Sensor	Standard - 10 LED seed sensor for improved accuracy across multiple seed types & rates		
Advanced Seed Delivery™ (ASD™)	Available - SpeedTube™ belt delivery system for high accuracy at any speed up to 10 mph		
<b>ROW UNIT</b>			
Parallel Links	Standard - cast lower parallel links w/ 16 in. (406 mm) total vertical row unit travel		
Offset Opener Disks / Opener Disk Scrapers	Standard - 15 in. (381 mm) diameter, 0.18 in. (4.5 mm) width, opener disks w/ external scrapers		
Row Unit Frame w/ Zero Index Depth Adjustment	Standard - cast row unit frame w/ 1/4 in. (6.4 mm) or 1/8 in. (3.2 mm) depth increments		
<b>GAUGE WHEELS</b>			
Reduced Inner Diameter Profile Wide	Standard - 4.5 in. (114 mm) width gauge wheels		
Reduced Inner Diameter Profile Narrow	Available - 3.5 in. (89 mm) width gauge wheels		
Flat Profile Wide	Standard - 4.5 in. (114 mm) width gauge wheels		
Flat Profile Narrow	Available - 3.5 in. (89 mm) width gauge wheels		
<b>ROW UNIT DOWN FORCE</b>			
Air Down Force w/o Feedback	Available - air down force w/o gauge wheel load feedback		
Air Down Force w/ Feedback	Standard - air down force w/ gauge wheel load feedback		
Hydraulic Down Force w/ Automatic Control	Available - DeltaForce™ adds or removes weight automatically, row by row		
<b>CLOSING SYSTEM</b>			
2-Stage w/ Spring Closing Disk & Press Wheel	Standard - independent 9 in. (228 mm) diameter inverted closing disks & press wheel		
2-Stage w/ Air Closing Disk & Spring Press Wheel	Available - independent 9 in. (228 mm) diameter inverted closing disks & press wheel		
Spring V-Press Wheel	Available - 12 in. (305 mm) diameter x 1 in. (25 mm) width rubber V-Press wheels		
Air V-Press Wheel	Available - 12 in. (305 mm) diameter x 1 in. (25 mm) width rubber V-Press wheels		

Standard = In base price of the planter    Available = Multiple options available    ^ = Factory Supplied Dealer Installed Attachment only

EARLY RISER MODEL	2150 FRONT FOLD		
<b>CONFIGURATION</b>			
Rows	12	16	24
Spacing	30 in. (762 mm)		
<b>WING DOWN FORCE</b>			
Hydraulic Wing Down Force	Available - provides additional down force to the toolbar wings		
<b>MARKERS</b>			
Marker	Available - triple-fold, automatic alternating markers w/ shear bolts		
No Marker w/ Weight Brackets	Standard - w/ wing weight brackets for mounting up to 4 suitcase weights		
<b>HYDRAULIC / ELECTRICAL SYSTEM</b>			
Hydraulic Direct Drive w/ Alternator	Standard - planter mounted, hydraulically driven 200 amp alternator w/ battery~		
Auxiliary PTO Hydraulic Pump	Available - 22 GPM (83 LPM)^		
<b>AIR COMPRESSOR SYSTEM</b>			
Standard Air Compressor	Standard - for air down force only		
Deluxe Air Compressor	Available - for air down force, air residue manager, & air closing		
<b>CONTROL &amp; MONITOR SYSTEM</b>			
AFS Pro 700	Standard - AFS control & AFS Pro 700 display		
<b>GRANULAR CHEMICAL</b>			
Electric Drive Granular Chemical	Available - AMVAC SmartBox® insecticide		
<b>FERTILIZER SYSTEM</b>			
Liquid Fertilizer w/ Tanks for On Row Seed Hoppers	Available - 600 gal. (2 271 L) tank, centrifugal pump, & 3 section valves		
Liquid Fertilizer w/ Tanks for Bulk Fill Seed Hoppers	Available - 400 gal. (1 514 L) tank, centrifugal pump, & 3 section valves		
Liquid Fertilizer w/o Tanks	Available - centrifugal pump & 3 section valves		
Electronic Individual Row Liquid Fertilizer Shutoff	Available - automatic overlap control in sync with seed meter^		
In Furrow Liquid Fertilizer Delivery	Available - row unit plumbing & in furrow nozzle		
<b>REAR TOW HITCH</b>			
Rear Tow Hitch with Harnessing	Available - for use with towed Fertilizer Caddy		
<b>ROW UNIT TILLAGE</b>			
Non-Floating Tine Residue Mgr	Available - 13 in. (330 mm) diameter pin adjust tine wheel w/o depth band		
Non-Floating NoTill Residue Mgr	Available - 13 in. (330 mm) diameter pin adjust no-till wheel w/o depth band		
Floating Tine Residue Mgr	Available - 13 in. (330 mm) diameter floating tine wheel w/ depth band^		
Floating NoTill Residue Mgr	Available - 13 in. (330 mm) diameter floating no-till wheel w/ depth band		
Floating NoTill Residue Mgr w/ In Cab Control	Available - air adjust 13 in. (330 mm) diameter no-till wheel w/ depth band		
25 Wave Coulter	Available - 16 in. (406 mm) diameter coulter^		
Stem Mount Tillage Adapter	Available - for use with stem mount tillage adapters		
Plate Mount Tillage Adapter	Available - for use with plate mount tillage adapters		
<b>TRACTOR RECOMMENDATIONS</b>			
Engine Horsepower Range*	155-310 hp	180-380 hp	280-500 hp
Hydraulic System*	High flow or twin-flow hydraulic pump		
Number of Hydraulic Remotes	3	3 - 2-point hitch / 4 - drawbar hitch	
Maximum Case Drain Port back pressure	26 psi (170 kPa)		

~ = Battery must be sourced by dealer \* = Varies based on planter configuration, speed, operating conditions, etc.



SAFETY NEVER HURTS!™ Always read the Operator's Manual before operating any equipment. Inspect equipment before using it, and be sure it is operating properly. Follow the product safety signs, and use any safety features provided. CNH Industrial America LLC reserves the right to make improvements in design and changes in specifications at any time without notice and without incurring any obligation to install them on units previously sold. Specifications, descriptions and illustrative material herein are as accurate as known at time of publication, but are subject to change without notice. Availability of some models and equipment builds varies according to the country in which the equipment is used.

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