







EARLY RISER 2000 SERIES PLANTERS

4 Models | 12–47 Rows | 7"×7", 8"×8" or 12"×12" Frame Size ACCURATE TECHNOLOGY. DURABLE BUILD. DEPENDABLE DESIGN.

From the rugged row unit to the industry's most accurate planter technologies, the 2000 series Early Riser planter operates at your speed to ensure faster, more uniform emergence and the best yield possible.

2000 SERIES EARLY RISER PLANTERS

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AGRONOMICALLY DESIGNED FOR HIGH-EFFICIENCY PLANTING.

Planters should deliver accurate seed placement and depth control across varying soil and tillage conditions, as well as consistent seed-to-soil contact. Early Riser planters deliver the highest yield potential through superior agronomic performance. The row unit has unique design elements for how it engages the soil and addresses specific issues for improved seed environment. The result is faster germination and more uniform emergence for a better net-effective stand and better yield potential.

EVERY PLANT COUNTS.

That's why the 2000 series Early Riser planter is designed to quickly recognize and accommodate varying conditions, delivering consistently accurate seed placement and depth control. Built on Agronomic Design™ principles and equipped with the latest Case IH and Precision Planting® technologies, this planter is engineered to deliver the highest yield potential possible through superior agronomic performance.

The 2000 series Early Riser planter is a perfect complement to any high-efficiency soil management system. With proper seedbed preparation from using Case IH tillage tools that set your fields for success, you can boost your planter productivity even more.



SIX PRIMARY DRIVERS OF SEED PLACEMENT ACCURACY WHEN PLANTING.

Producers should consider six agronomic drivers of seed placement accuracy at planting time. Depending on the type of seed and field conditions, certain drivers may have more or less importance:

- 1 Proper seed depth
- 2 Uniformly correct seed depth across the planter and throughout the field
- 3 Good seed-to-soil contact
- 4 Uniformly correct soil pressure all around the seed
- 5 Accurate seed population
- 6 Accurate in-row seed spacing

primary drivers of

Photocopy Plants: potential to impact corn yields by

9%-22%¹

drivers of

Picket Fence Stands:

potential to impact corn yields by

2%-4%²

- 1. Yield impact statistics based upon Purdue University Department of Agronomy Publication AGRY-91-01 "Stand Establishment Variability in Corn".
- Yield impact statistics based upon Purdue University Department of Agronomy Publication AGRY-91-01 "Stand Establishment Variability in Com".
 Based on a 200-bushel yield potential and 26,000 to 30,000 seeds per acre with spacing variability with standard deviation of about 2 inches.

YIELD COMPARISON:

Competitions' Definition of Accuracy – Picket Fence Stands



1 = one more plant, emerged uniformly or spaced accurately and contributing to yield every 17 ft. 6 in. = 1,000 more plants per acre

 $1,000 \times 0.4$ lb. (grain weight of an average ear) = 400 lbs. per acre

400 lbs. per acre/56 lbs. per bushel = **7** bpa increase

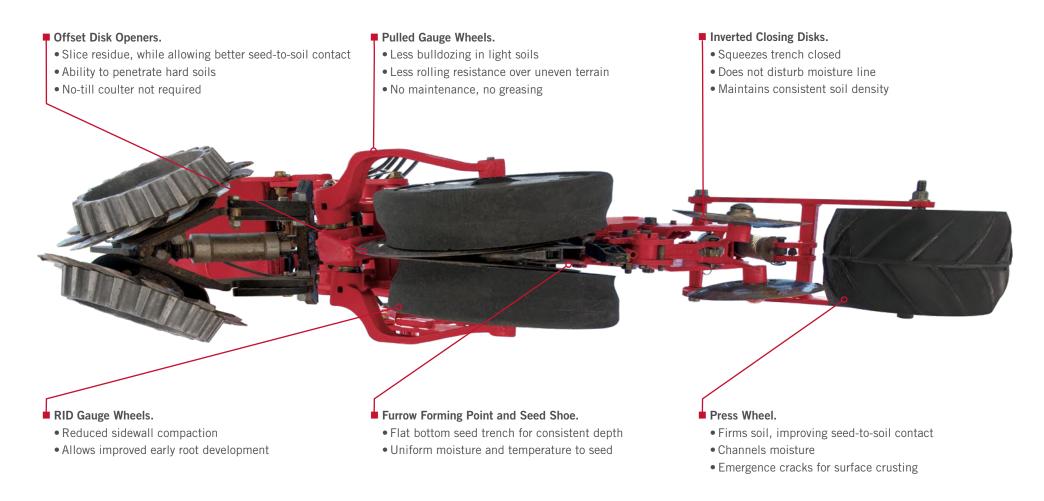
 $7 \times $3.50 \times 1,000 \text{ acres} = $24,500 \text{ per year}$

Case IH Definition of Accuracy – Picket Fence Stands With Photocopy Plants



A SUPERIOR ROW UNIT DESIGN.

The Early Riser row unit has unique design traits for an improved seed environment, which results in faster germination, more uniform emergence, better net-effective stand and a higher yield potential.





COMPETITIVE ROW UNIT EARLY RISER ROW UNIT Hard Sidewall Soft Sidewall Soil Retention Saves & Reuses Lost Trench Soil Groove Trench Soil Increased Increased Increased Increased Soil Density Soil Density Soil Density Soil Density Undisturbed Soil Density Optimized Root Zone Compaction Zone Increased Increased Increased Increased Soil Density Soil Density Soil Density Soil Density Potential Undisturbed Soil Density Compaction Zone Optimized Root Zone Increased Increased Increased Increased Soil Density Soil Density Soil Density Soil Density Undisturbed Soil Density Optimized Root Zone Potential Compaction Zone Increased Increased Soil Density Soil Density Soil Density Soil Density Potential Undisturbed Soil Density Optimized Root Zone Compaction Zone

PRODUCER EXPERIENCES FROM THE FIELD.



"One of the best features of my 2150 planter is the **ruggedness**. We've been able to run 6 to 6.5 mph — about 1.5 mph faster than we're used to — and we did not see any change in our plant stands. By traveling at a higher speed, we can cover nearly 40 more acres per day without compromising accuracy, which is huge."

-Kevin Smith



"The two-stage closing system on my 2150 planter helps eliminate sidewall compaction in the spotty areas of my field that get a bit wetter. It helps me make sure I close each seed trench properly, so we get uniform emergence across the whole field."

-Nate Leystra

STAY AHEAD WITH HIGH-EFFICIENCY PLANTING.

From a rugged row unit to the industry's most accurate Precision Planting technology, the Early Riser 2000 series planter is built to get the job done with unmatched accuracy and efficiency.







MORE ACCURACY.

- Factory-integrated Case IH and Precision Planting technology customized to your farm's soil types, terrain, fertilizer and chemical application needs, and crop residue management practices.
- The optional, factory-fit Precision Planting WaveVision® seed sensor helps producers achieve accurate seed placement in high-dust and extreme residue conditions.
- Fully integrated **liquid fertilizer systems**, from variable rate control and row-by-row shut-offs to in-furrow or 2×2 in soil application specifically designed for the 2000 series Early Riser planter lineup.
- Low-maintenance, electrically driven metering system delivers accurate and consistent seed singulation, population and in-row spacing.
- Industry's only flat-bottom seed trench provides proper depth and more consistent seed placement while improving seed-to-soil contact.

MORE DURABILITY.

- Rugged row unit built for unrivaled accuracy and dependability from 4 mph to 10 mph.
- **Heavy-duty cast components** stand up to increased speeds and tough, fast-changing conditions.
- 26-inch toolbar clearance, plus a 60% increase in vertical row unit travel to accommodate rapid terrain changes.



MORE PRODUCTIVITY.

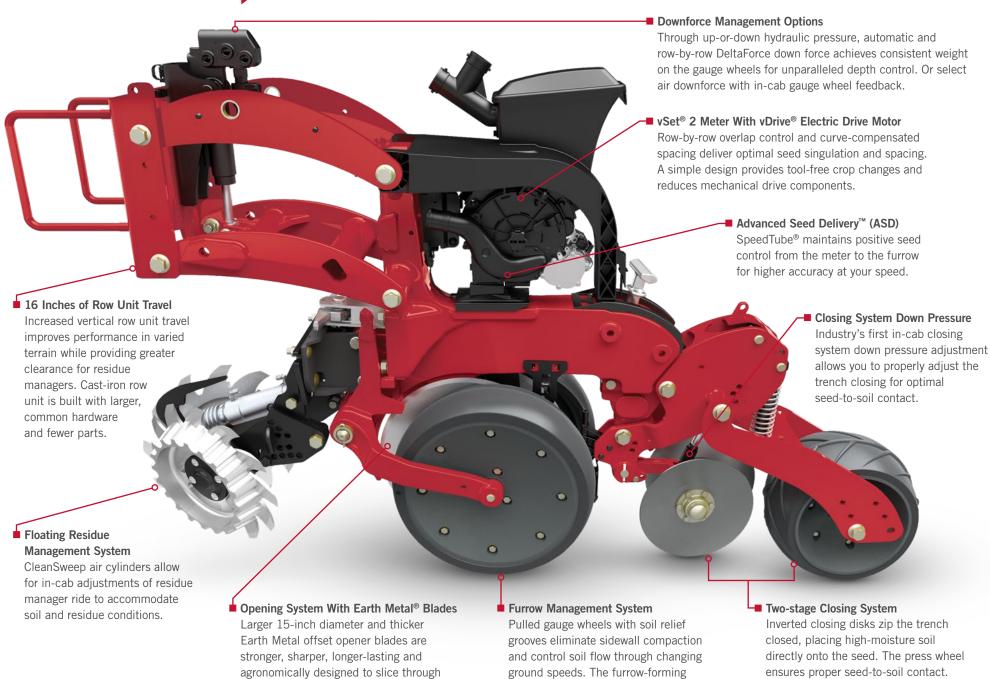
- Choose between **1.9-bushel on-row hopper** (2130 and 2150), or **bulk-fill systems** ranging from 50 bu. to 120 bu. depending on model.
- Reduced maintenance and tool-free crop changes and adjustments keep you in the field to cover more acres with greater speed and efficiency.
- Automatic and in-cab adjustments help you quickly adapt to unique field conditions:
 - Row-by-row hydraulic up/downforce control with DeltaForce®
 - Speed-compensated vacuum
 - No-till floating residue managers with CleanSweep[®] air cylinders
 - Air closing system with up to three times the force of a spring
- Hydraulic wing downforce
- Auxiliary alternator automation
- Individual row shut-offs for seed and fertilizer and granular chemical
- Automatic curve compensated spacing

Model	2130	2140	2150	2160
Seed Capacity	12-, 16- or 18-row	23-, 24-, 31- or 32-row	12-, 16- or 24-row	24-, 32-, 36-, or 47-row
On-row Hopper	1.9 bu. (67 L)	N/A	1.9 bu. (67 L)	N/A
Bulk-fill	50 bu. (1762 L)	80 bu. (2819 L)	100 bu. (3 524 L) ¹ ; 120 bu. (4229 L) ²	120 bu. (4229 L)

¹12- and 16-row configurations; ²24-row configuration

ONE ROW UNIT, MULTIPLE POSSIBILITIES.

residue and tough soil conditions.



point creates the industry's only flat-bottom seed trench.



ADAPTS TO MEET YOUR FIELD CONDITIONS.

HIGHLY RESPONSIVE.

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

- Choose from the AFS Pro 700 with Legacy Planter Control, the AFS Pro 1200 with ISOBUS Planter Control—or even a competitive ISO-compliant display—to make on-the-go planter adjustments and tailor settings from the cab as field conditions dictate.
- Wing downforce control provides additional vertical stability to the toolbar wings, helping the row units maintain ground contact at high speeds and respond to changing terrain.
- Hydraulic row unit downforce provides greater depth control consistency and improved ride and stability at higher planting speeds.

DECREASE COMPACTION.

- Designs with fewer tires reduce wheel traffic and 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.
- Factory track options on 2140 and 2160 models.



SUPERIOR SINGULATION. OPTIMAL PLACEMENT.

ELECTRIC DRIVE SIMPLICITY.

- The vSet 2 meter and vDrive electric drive provide precise per-row seed metering with simplicity and less maintenance to provide picket-fence stands at your speed.
- Mini-hopper and single air-intake screen are easy to access and clean.
- Entire seed meter offers fast, tool-free maintenance and adjustments even when switching between crops.

ADVANCED SEED DELIVERY.

- The Advanced Seed Delivery (ASD) option includes the **SpeedTube from Precision Planting** for the most accurate seed delivery and placement to and in the seed furrow.
- Available for corn, soybeans, cotton and sugar beets, 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.
- The Advanced Seed Information (ASI)[™] system gives you detailed row-by-row seed singulation and spacing information with warnings should a problem occur, so you can be confident that all systems are performing optimally.

CONSISTENT IN CURVES AND CONTOURS.

- 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 curve.
- 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.
- The vDrive electric drive systems achieve overlap control without clutches, which results in less maintenance.

FULLY INTEGRATED SYSTEMS FOR MAXIMUM EFFICIENCY.

You need reliable systems that are matched to your planter's capacity and can meet high-speed planting demands. With ISO Planter Control, you can visualize high-resolution, as-applied planting data in real time — all from one integrated display that is easy to navigate and customize to match your operation's needs.







PLANTER CONTROL SYSTEMS.

- Spend more time in the cab planting with total planter control and continuous, row-by-row performance feedback.
- ISOBUS compatibility means you can monitor your 2000 series Early Riser planter from most ISOBUS-compliant displays for easy plug-and-play operation.
- **High-resolution, as-applied planting data** and enhanced visualizations from grill to press wheel are made possible by the VisionPro operating system.
- With AFS Connect 2-way file transfer, share planter data with your home computer or a trusted adviser to gain valuable agronomic insights and make better, data-driven decisions.

INTEGRATED DISPLAYS.

- Choose from either the AFS Pro 1200 or AFS Pro 700 display to match your operation and equipment needs:
 - AFS Pro 1200: Offers a single-screen solution with an enhanced user interface for AFS Connect Steiger® or Magnum™ series tractor operators, delivering the full suite of ISOBUS planter software capabilities
 - AFS Pro 700: Offers a single-screen solution for other Case IH tractor models
- The AFS Pro 1200 takes **as-applied mapping** to the next level with:
 - Row-by-row visualization
 - Split-screen mapping
 - Six customizable windows
- 3D implement modeling for accurate coverage maps

AUTOMATED SYSTEMS FOR SPEED AND EASE.

- The vacuum, air, hydraulic and power systems provide the vital components that keep the planter planting.
- Automatic speed-adjusted vacuum control ensures optimal meter performance at all speeds so you don't have to.
- Stand-alone, fully protected electrical system with automated alternator produces power as needed to reduce fuel consumption.
- **Heavy-duty air compressor** with high-performance air filter provides reliable performance.



TOOL-FREE ADJUSTMENTS.

Many 2000 series Early Riser planter components — including the metering system and row unit settings — provide tool-free crop changes and adjustments.
 A streamlined design simplifies service access so you can make modifications quickly and efficiently.

EASY MAINTENANCE.

- Seed meter and crop conversion changes are tool-free with simple accessibility.
- Interchangeable components can be adjusted row by row and are automatically recalibrated on the AFS Pro 700 or AFS Pro 1200 display to provide reliable in-field diagnostics. This reduces downtime and operator input into the monitor.
- Plus, the design of the 2000 series Early Riser planters eliminates the mechanical components hex shafts, bearings, couplers, sprockets, chains and clutches needed to turn a conventional planter. Fewer things to go wrong means reduced, simpler maintenance.

QUICK-ADJUSTING T-HANDLE.

■ Quick-adjusting T-handle allows for depth adjustments in 1/8-in. increments up to 3 5/8-in. depth.

OPTIMIZE PERFORMANCE WITH AFS TECHNOLOGY.

Follow the precise path of your tillage passes to perfectly place each seed using AFS AccuTurn[™] and AFS AccuGuide[™] autoguidance. Reduce plant crowding with automatic row-by-row overlap control and keep track of what you've planted with AFS Connect. AFS technology is at your side every step of the way to make the most of your planting season.



AUTOGUIDANCE.

- AFS AccuGuide autoguidance: Minimize skips and overlaps to save on inputs, fuel and labor.
- **AFS AccuTurn:** Ensure the planter is square after every turn to create uniform spacing between rows.
- AFS RTK+ Cellular RTK Guidance (NTRIP): Obtain sub-inch corrected positioning for autoguidance accuracy, less overlap and minimized plant crowding.

SECTION AND RATE CONTROL.

- All 2000 series planters come standard with the ability to run overlap control, curve-compensated spacing and seed rate prescriptions.
- Planters equipped with liquid fertilizer have standard 3-section control, variable rate and the ability to run prescriptions
- Planters equipped with granular chemical have row-by-row shut-offs and blockage sensing
- Factory-installed Section & Rate Control: Utilize all the agronomic advantages of section and rate control on Case IH equipment with the vDrive electric drive seed metering system.
- **Headlands Last feature:** Allows producers to plant headlands last for improved uniform plant emergence.
- Achieve greater planting efficiency when using multiple vehicles in the same field with AFS AccuSync.

AFS CONNECT.

- Maximize yield potential and minimize input costs by producing a prescription based on soil characteristics and previous yields. Then, upload prescriptions directly to machines using AFS Connect.
- **Soil Map:** Analyze soil characteristics to determine the best population and seeding rates for different soil types or nutrients available
- Yield Map: Analyze previous years' yield map to help determine the best variety, population and seeding rates based on the yield potential in the field
- Prescription Map: Generate a planting or seeding prescription map using previous years' yield data and soil characteristics to maximize yield potential and minimize input costs
- As-applied Map: Generate a map during planting or seeding 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 or total acres remaining

AFS ACCUSYNC.

- Easily share real-time field logistics between multiple machines in the same field for a seamlessly connected operation promoting increased productivity and overall efficiency.
- Minimize overlaps or double planting as AFS AccuSync will shut off applicable planter row units so it does not double plant on already planted soil.



THE FREEDOM TO FARM YOUR WAY. AFS Connect lets you monitor your farm, fleet and data, and remotely manage your operation anytime, anywhere.



Get more done each day with the ability to organize your fields, applications and agronomic data.

- View every field operation, from spring tillage to planting season and all the way through harvest.
- Generate satellite maps to help visualize multiple layers of agronomic data to gain better insights and make better informed decisions.
- Push guidance lines, boundaries and prescriptions to equipment remotely.



Track and monitor your equipment to work smarter and achieve peak performance.

- View planter parameters remotely to ensure proper seed placement.
- Coordinate machine logistics to efficiently manage refueling, refilling and maintenance work during tight planting windows.
- Set alerts to warn if parameters fall outside acceptable ranges, including skips, singulation and doubles.
- Remote display viewing enables the farm manager or trusted partner to view what is on screen in the tractor cab*

*Available on the AFS Pro 1200 display.

Model 2160	24R30 36R30 32R30		36R20	36R22		
Rows	24	36 32		36	36	
Spacing	30 in. (762 mm)			20 in. (508 mm)	22 in. (558.8 mm)	
Toolbar	60-ft. toolbar	60-ft. toolbar 90-ft. toolbar 80-ft. toolbar		60-ft. toolbar	66-ft. toolbar	
Center Section Tracks	24-in. tracks, 120-in. or 132-in. centers; steerable			18-in. or 24-in. tracks, 120-in. or 132-in. centers; steerable	18-in. or 24-in. tracks, 88-i 132-in. centers; steerabl	
Center Section Wheels	(4) 500/45R20 radial tires; walking tandems; steerable or fixed					





2160 EARLY RISER

LARGE FRONT-FOLD TRAILING PLANTER

STANDARD FEATURES:

- Factory-integrated Case IH and Precision Planting vSet meters for exceptional singulation and accuracy supporting a wide variety of crop types.
- Bulk-fill seed feeding system with two 60-bushel tanks for reliable seed delivery, no matter the seed population.
- Rugged row unit and heavy-duty components for maximum durability.
- · Steerable center section tires.

OPTIONAL FEATURES:

- In-furrow liquid fertilizer and granular system with in-cab controls.
- Liquid fertilizer bulk-fill option at 600 gallons with built-in agitation.
- Bulk-fill seed tank scales.
- Steerable Rowtrac™ Carrier System.
- PTO hydraulic pump.



EARLY RISER 2160 LARGE FRONT-FOLD TRAILING PLANTER.

Designed to help you cover more ground in less time, toolbars ranging from 60 to 90 feet give you the efficiency needed to hit optimal planting windows. More acres, more efficiency, more productivity — that's the 2160 Early Riser planter.







MAXIMUM PRODUCTIVITY.

- Equipped with the capacity you need to **cover more**acres in a day a great fit for large farming operations.
- Stay in the field longer with more seed and liquid fertilizer capacity.
- Reduced maintenance and tool-free crop changes and adjustments keep you in the field to cover more acres efficiently.
- Automatic and in-cab adjustments help you quickly adapt to unique field conditions for optimal performance.
- Front-fold design delivers simple, narrow transport, so you can travel from field to field and accommodate tight field entrances with ease.

AWARD-WINNING TRACK DESIGN.

- Steerable Rowtrac Carrier System option provides 74% increased flotation and a smoother toolbar ride for reduced soil disturbance and greater productivity.
- More square inches on the ground improves flotation and yield potential in wet spring conditions.
- Three-axis steerable track solution, an industry first, provides **better maneuverability** compared with wheeled carriers.
- Balanced footprint distributes weight evenly and consistently, reducing compaction and rutting on end rows.
- One set of track paths controls in-field traffic and reduces pinch row compaction.

SPLIT-ROW CONFIGURATIONS.

- Providing the versatility to plant corn, soybeans or other specialty crops, the Early Riser 2160 is available in a **47R15 split-row configuration** the largest split-row configuration available from Case IH.
- A hydraulic lift offers fast conversion between 15- and 30-inch crops.
- Liquid fertilizer option to all rows and easily turned on and off to split rows.







2150 EARLY RISER

FRONT-FOLD TRAILING PLANTER

STANDARD FEATURES:

- Factory-integrated Case IH and Precision Planting vSet meters for exceptional singulation and accuracy supporting a wide variety of crop types.
- vDrive electric drive technology with row-by-row shut-offs, variable rate and curve-compensated spacing.
- Bulk-fill seed feeding system with up to two 60-bushel tanks for reliable seed delivery, no matter the seed population.
- Rugged row unit and heavy-duty components for maximum durability.

OPTIONAL FEATURES:

- 1.9-bushels on-row hopper option, with up to 600-gallon liquid fertilizer capacity.
- Optional bulk-fill scales.
- Wing downforce option for optimal ground contact in tough conditions.
- In-furrow liquid fertilizer and granular systems with in-cab controls for variable rate or prescription capable to save extra passes in the field and precisely manage nutrients and pesticides.



EARLY RISER 2150 FRONT-FOLD PLANTER.

The first model to join the family of 2000 series Early Riser planters, the 2150 Early Riser front-fold planter features a streamlined design for easy operation. Tool-free crop changes and adjustments keep you in the field, while a rugged build makes it a perfect fit to provide efficiency and accuracy in a variety of conditions.





FERTILIZER OPTIONS.

- Liquid fertilizer system delivers accurate application at a broad speed range.
- A 2x2 frame-mounted liquid fertilizer placement option, exclusive to the 2150 Early Riser planter, allows for fertilizer to be placed 2 inches over from the seed with adjustable depth up to 4 inches.
- Precise application with **row-by-row overlap control**.
- Optimize application with in-cab controls available through your AFS Pro 700 or AFS Pro 1200 display.
- Deliver granular insecticide in-furrow via the AMVAC SmartBox® option, which ensures minimal exposure to insecticides while providing superior crop protection. Integrated system includes blockage sensing and row-by-row shut-offs.

HIGHLY RESPONSIVE.

- High-clearance frame and increased row unit vertical travel accommodates rapid terrain changes without sacrificing accurate seed placement.
- Residue managers have more room to work and more relief and reduced likelihood of damage for stubborn obstacles like rocks.
- To help row units remain in position and ready to respond to changing terrain, the optional wing downforce control provides additional vertical stability to the toolbar wings.
- Heavy-duty design and components provide excellent row unit stability to follow ground contours, including on hillsides and around curves.
- In-cab AFS Pro 700 or AFS Pro 1200 display controls allow you to conveniently tailor settings on the go as field conditions dictate.

SIMPLE TRANSPORT.

- Front-fold frame design for narrow transport from field to field.
- Easy-to-use, on-screen, folding-and-unfolding process with step-by-step instructions.
- Simple to raise and lower rear platform even when folded for tendering and servicing.



Model 2140	23R15	24R15	31R15	32R15	24			
Rows	23	24	31	32				
Spacing		15 in. (3	381 mm)		20 in. (
Section Flex Points	6R-11R-6R	6R-11R-7R	10R-11R-10R	10R-11R-11R	8R-			
Split – Row		10" set-back with hydraulic lift						
Hydraulic Wing Down Force		Standard (In-cab adjustable) — provides additional downforce to the toolbar wings						
Center Section Tires		4-High Flotation 500/45R20 Radial						
Track Carrier Spacing/Track Width		120 in./18 in. (3040 mm/457 mm)						





2140 EARLY RISER

PIVOT-TRANSPORT PLANTER

STANDARD FEATURES:

- Factory-integrated Case IH and Precision Planting technology for exceptional accuracy.
- Bulk-fill seed feeding system with two 40-bushel tanks for reliable seed delivery, no matter the seed population.
- Fast and easy conversion from corn to soybeans with no tools required and hydraulic lift on split rows.
- Active wing wheels for improved weight distribution, flotation and stability.

OPTIONAL FEATURES:

- In-furrow liquid fertilizer and granular system saves extra passes in the field and allows you to precisely manage nutrients.
- Liquid fertilizer options with 400-gallon capacity and in-furrow plumbing.
- Track option for improved flotation.
- 40 gpm planter mounted PTO pump.



2140 EARLY RISER PIVOT-TRANSPORT PLANTER.

The 2140 Early Riser planter is two planters in one efficient machine. Six configurations feature ultranarrow-row-spacing options, and four configurations easily convert split-rows between even and odd rows and from corn to soybeans. Designed to easily transition from an operational width of up to 44 feet to a transport width of 13.5 feet, the 2140 Early Riser planter delivers excellent ground clearance for unmatched terrain flexibility so you can easily move from field to field and navigate tight field entrances.





MORE ACCURACY.

- Factory-integrated Case IH and Precision Planting technology are customized to your farm's soil types, terrain, fertilizer and chemical application needs, and crop residue management practices.
- Fully integrated **in-furrow liquid fertilizer delivery system** is specifically designed for the 2140 planter.
- Low-maintenance, electrically driven metering system delivers accurate and consistent seed singulation, population and in-row spacing.
- Industry's only flat-bottom seed trench provides proper depth and more consistent seed placement while improving seed-to-soil contact.

MORE DURABILITY.

- Rugged row unit built for unrivaled accuracy and dependability — from 4 mph to 10 mph.
- Heavy-duty cast components stand up to increased speeds and tough, fast-changing conditions.
- Increased wing flexibility provides accurate seed placement in rolling ground and terraced fields.
- 26-inch toolbar clearance, plus a 60% increase in vertical row unit travel to accommodate rapid terrain changes.
- Pivot-fold transport package provides excellent clearance around fences, railroad tracks and bridges.

MORE PRODUCTIVITY.

- Tool-free crop changes and adjustments allow you to quickly and easily change over from corn to soybean planting for two-in-one planter efficiency.
- Fast-folding, narrow transport and excellent clearance let you efficiently move from field to field.
- Tender seed from a convenient platform that is similar in height to a pickup truck tailgate, and standard rear work lights help to see better at night.
- Automatic and in-cab adjustments help quickly adapt to unique field conditions for optimal performance. AFS Pro 700 displays can show up to six run screens and AFS Pro 1200 displays can show up to seven run screens.



Model 2130	12R30	12R36	12R38	12R40	16R30	18R30		
Rows		1	16	18				
Spacing	30 in. (762 mm)	36 in. (914 mm)	38 in. (965 mm)	40 in. (1016 mm)	30 in. (762 mm)			
Section Flex Points		3R-6	4R-8R-4R	5R-8R-5R				
Hydraulic Wing Down Force	Available — provides additional down force to the toolbar wings							
Engine Horsepower Range*		180-310 hp						





2130 EARLY RISER

MOUNTED STACK-FOLD PLANTER

STANDARD FEATURES:

- Factory-integrated Case IH and Precision Planting vSet meters for exceptional singulation and accuracy supporting a wide variety of crop types.
- vDrive electric drive technology with row-by-row shut-offs, variable rate and curve-compensated spacing.
- Rugged row unit and heavy-duty components for maximum durability.
- 1.9-bushels on-row hoppers compatible with a wide variety of crop types, including cotton, edible beans and peanuts.

OPTIONAL FEATURES:

- Liquid fertilizer options include variable rate control with Rx capabilities and in-furrow delivery.
- In-furrow liquid fertilizer and granular system saves extra passes in the field and allows you to precisely manage nutrients.
- Bulk-fill seed feeding system with a single 50-bushel tank for more planting between fills, and convenient central fill for fast and easy tendering.
- Optional gullwing and wing downforce.
- Optional lift assist wheels.



EARLY RISER 2130 MOUNTED STACK-FOLD PLANTER.

A perfect fit for any high-tech strip-till, irrigation and specialty crops operation, the Early Riser 2130 stack-fold planter with mounted 3-point hitch delivers efficiency and accurate seed placement at your speed — up to 10 mph.





STACK-AND-GO PORTABILITY.

- Fast, convenient stacking allows for easy transport from field to field and brings the planter closer to the tractor so you can back right up to the field edge and start planting.
- The heavy-duty toolbar is designed to hold up to high speeds and tough, fast-changing conditions.
- Weight is evenly distributed across the planter and tractor footprint, achieving constant pressure on the gauge wheels for accurate seed depth across varying soil conditions and speeds.
- Optional **lift assist wheels** further distribute weight.
- Gullwing option provides additional wing lift when planter is raised for more clearance on headland turns.

FIND THE PERFECT FIT.

- Irrigation: Pair with a Magnum™ series tractor that has guidance in reverse for better maneuverability. This helps you plant close to the water source without risking equipment damage.
- **Strip-till:** Efficiently hit tight spring planting windows with a planter that precisely follows strips acre after acre.
- Wide rows: The 2130 Early Riser planter allows for 36-, 38- and 40-inch rows so you can plant all of your crops, from corn to cotton.
- Multiple Crop Types: The vSet 2 vDrive electric drive meter carefully handles a variety of crops, including cotton, corn, edible beans, soybeans, peanuts and sugar beets, allowing you to place quality seed in the ground acre after acre.

NEXT-LEVEL EFFICIENCY.

- Bulk-fill seed feeding system with 50-bushel capacity provides reliable seed delivery no matter the seed population.
- Bulk-fill system is easy to fill and quick to clean out when changing crop types.
- **Liquid fertilizer system** delivers accurate application and is available with row-by-row shut-offs.
- **High-speed capability** up to 10 mph helps you get the crop planted during optimal planting windows. For example, you can cover 67% more acres by planting at 10 mph compared with 6 mph.
- Quickly adapt to changing conditions with in-cab adjustment options for row cleaner ride, row unit downforce and closing system down pressure.



SET YOUR PLANTING SEASON UP FOR SUCCESS

HIGH-EFFICIENCY PLANTING STARTS AT THE SEEDBED.

The latest planter technology allows for productive, high-efficiency planting. But your seedbed sets the tone for row unit ride and planter speed. A smoother, more level seedbed floor helps your planter consistently and reliably place seeds at the right depth and spacing. That's why Early Riser 2000 series planters and Case IH soil management tools are a perfect match to help your crops achieve their full yield potential.

LEARN MORE ABOUT CASE IH SOIL MANAGEMENT SOLUTIONS AT:

WWW.CASEIH.COM







FIT THE WAY YOU FARM WITH CASE IH FERTILIZER OPTIONS.

No matter your farming practices, Case IH has fertilizer options and attachments to help you promote faster, earlier seed growth. Your Case IH dealer can help you spec out your planter to get the job done the way you want.









2160 LARGE FRONT-FOLD PLANTER.

- Tank options:
 - 600-gallon tank on planter with built-in agitation
 - Tractor-mounted tank*
 - Fully integrated AMVAC SmartBox system available for granular applications
- Application options:
 - In-furrow delivery with rubber applicator drops liquid fertilizer directly into the furrow in front of the closing system

2150 FRONT-FOLD PLANTER.

- Tank options:
 - 400-gallon bulk-fill with capacity up to 600-gallons when equipped with on-row hoppers
 - Pull-hitch option for towed fertilizer cart
 - Tractor-mounted tank*
 - Fully integrated AMVAC SmartBox system available for granular applications
- Application options:
 - Frame-mounted 2×2 liquid fertilizer placement with 15-inch diameter offset disk. The fertilizer shoe applies fertilizer 2 inches from seed with 0 to 4 inches adjustable depth
- Unit-mounted 2×2 liquid fertilizer with 14-inch offset opener that places liquid fertilizer directly in the soil and includes spike-toothed, floating row cleaners
- In-furrow delivery with rubber applicator

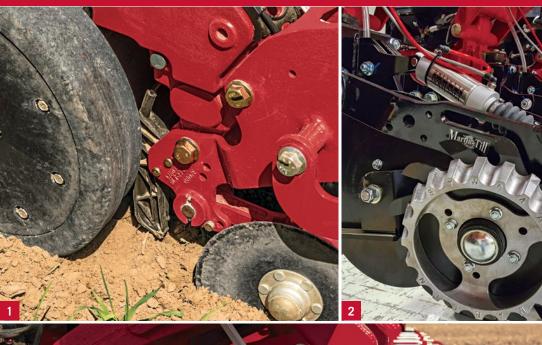
2140 PIVOT-TRANSPORT PLANTER.

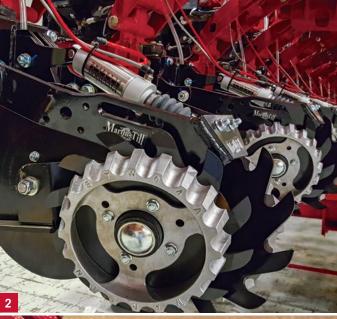
- Tank options:
 - Two 200-gallon tanks with built-in agitation
 - Tractor-mounted tank*
 - Fully integrated AMVAC SmartBox system available for granular applications
- Application options:
 - In-furrow delivery with rubber applicator drops liquid fertilizer directly into the furrow in front of the closing system

2130 STACK-FOLD PLANTER.

- Tank options:
 - Tractor-mounted tank*
- Fully integrated AMVAC SmartBox system available for granular applications
- Application options:
 - In-furrow delivery with rubber applicator drops liquid fertilizer directly into the furrow in front of the closing system

^{*}Tank not included for tractor-mounted tank options.







CONTROL SYSTEM.

- Monitor liquid fertilizer system performance and make in-cab flow rate adjustments with the AFS Pro 700 or AFS Pro 1200 display.
- Three-section control system is capable of prescriptions and variable rates and offers row-by-row overlap control for ultimate efficiency to reduce input costs.
- Centrifugal liquid fertilizer pump accurately delivers a broad application rate across a range of speeds (4 to 10 mph).

ROW UNIT ATTACHMENTS.

- In-furrow placement option
- 2 Unit-mounted 2×2 option with floating row cleaner
- 3 Frame-mounted 2×2 option

PRODUCT SUPPORT KITS FOR LONG-LASTING DURABILITY.

When it comes to the productivity of your Case IH planter, only trust the best. Many product support kits are available to help you repair or replace worn parts.

DISK ASSEMBLIES FOR CASE IH 2000 SERIES PLANTERS.

PART NO.	DESCRIPTION	APPLICATION
47743000	Disk, 9" assembly	2000 Series
51691765	Disk, 15" assembly	2000 Series

NEW EARTH METAL OPENER ASSEMBLY

Earth Metal Blade

Earth Metal blades last significantly longer and are measurably stronger than conventional blades.

Wobble Reduction

New process reduces wobble for improved performance.

Machined Edge

Improved penetration in conventional and no-till applications.

Extended Life and Reduced Wear

Gothic arch design with two-point contact between the balls and the races to give a higher load rating and to reduce wobble. This design helps to extend bearing life and reduce opener disk wear.

New Heavy-duty Cast Ductile Iron Hub and Class 3 Rivets

These new hubs and rivets provide improved strength and durability.





- Spring tensioned opener disk scrapers maintain opener disk contact as scraper wears and can be serviced without tools.
- Opener disk scraper kits include leading and trailing disk scrapers and springs for LH or RH sides of row unit.

PART NO. DESCRIPTION		APPLICATION
48030825	LH disk opener scraper kit	2000 Series
48030826	RH disk opener scraper kit	2000 Series

FURROW-FORMING POINT AND SEED SHOE KIT.

■ Includes furrow-forming point, seed shoe and hardware.

PART NO.	DESCRIPTION	APPLICATION
48030831	Furrow-forming point and shoe	2000 Series

CARRIER WHEEL MUD SCRAPER.

■ Adjusting carrying wheel mud scraper brackets and hardware for center section tires only.

PART NO.	ART NO. DESCRIPTION APPLICATION		
47832716	Carrier wheel mud scraper	2150	

CLOSING DISK KITS.

■ Includes two closing disks and hardware.

PART NO.	DESCRIPTION	APPLICATION		
48031218	Closing disk kit	2000 Series		

- 50/50 talc/graphite mix available.
- Improves seed flow when planting sticky coated seed.
- Available in 1- or 8-lb. containers.

PART NO.	DESCRIPTION	APPLICATION
73340370	1-lb. 50/50 talc/graphite blend, fine particle size	2000 Series
73340734	8-lb. 50/50 talc/graphite blend, fine particle size	2000 Series
73340918	Dispensing cap	8-lb. Container

EARLY RISER 2160 LARGE FRONT-FOLD PLANTER SPECIFICATIONS

CONFIGURATION						
Rows	24	36	36	32	36	47
Spacing	30 in. (762 mm)	20 in. (508 mm)	22 in. (559 mm)	30 in. (762 mm)	15 in. (381 mm)
Section Flex Points	9R-6R-9R	13R-10R-13R 6R-7R-6R-7R-6R 6R-9R-6R-9R-6R				17R-13R-17R
Wing Flex		+/-15° (30° total)		+/-15° (30° total) inner wing	, +/-20° (40° total) outer wing	+15°/-6° (21° Total)
Frame Size			12×12 in. (3	0.5×30.5 cm)		
Toolbar Operating Height			26 in. (6	660 mm)		
Approximate Transport L×W×H (Includes Bulk Fill With Scales,	46 ft. 6 in. × 15 ft. 4 in. × 12 ft.	46 ft. 6 in. × 16 ft. 4 in. × 12 ft.	47 ft. 10 in. × 17 ft. 10 in. × 12	54 ft. 10 in. × 15 ft. 4 in. × 12	56 ft. 5 in. × 15 ft. 4 in. × 12 ft.	46 ft. 6 in. × 17 ft. 1 in. × 12 ft.
Tracks, Markers, 2-stage Closing, No Granular Chemical)	3 in. (14.2×4.7×3.7 m)	3 in.(14.2×5.0×3.7 m)	ft. 3 in.(14.4×5.4×3.7 m)	ft. 3 in.(16.7 × 4.7 × 3.7 m)	3 in.(17.2×4.7×3.7 m)	3 in. (14.2×5.2×3.7 m)
HITCH						
Hydraulic Drawbar			Standard —	Category IV		
FLOTATION	1			1		
Tire Arrangement		2-4-2			4-2-2	2-4-2
Steerable Center Section Tires With High Flotation Wing Wheels		Standard – center se	ction 500/45R20 radial tires & wi	ing 380/55R16.5 radial tires (stee	ering in transport only)	
Fixed Center Section Tires With High Flotation Wing Wheels		Availab	le – center section 500/45R20 ra	dial tires & wing 380/55R16.5 rad	dial tires	
Steerable Center Section Tracks With High Flotation Wing Wheels		Available – 2	center section tracks & wing 380	/55R16.5 radial tires (steering in	transport only)	
Track Carrier Spacing/Track Width	120 in./24 in. (305 cm/61 cm)	120 in./18 or 24 in. (305 cm/46 or 61 cm)	88 or 132 in./18 or 24 in. (224 or 335 cm/46 or 61 cm)		120 in./24 in. (305 cm/61 cm)	
SEED DELIVERY						
Bulk Fill			Standard – 120 bu. total with wo	ork lights; Available — with scales		
Electric Drive Vacuum Seed Meter		St	andard – vSet® 2 vacuum seed m	eter with vDrive® electric drive mo	tor	
Seed Tube/Hy Rate Plus™ Seed Sensor		Standard -	- 10 LED seed sensor for improved	l accuracy across multiple seed ty	pes & rates	
Advanced Seed Delivery (ASD)		Available –	SpeedTube® belt delivery system	for high accuracy at any speed up	to 10 mph*	
ROW UNIT	1					
Parallel Links		Standard	l – cast lower parallel links with 1	6 in. (406 mm) total vertical row ι	ınit travel	
Offset Opener Disks/Opener Disk Scrapers	Standard			· · · · · · · · · · · · · · · · · · ·	— Combination internal/external	scrapers [^]
Row Unit Frame With Zero Index Depth Adjustment		Standard – cast row uni	t frame with 1/4 in. (6.4 mm) or 1/	/8 in. (3.2 mm) depth increments;	zero indexed from factory	
ROW UNIT DOWNFORCE			01 1 1 1 1 1 1			
Air Downforce				th gauge wheel load feedback		
Hydraulic Downforce With Automatic Control		Av	ailable – DeltaForce® adds or remo	oves weight automatically, row by	row	
CLOSING SYSTEM 2-Stage With Spring Closing Disk & Press Wheel		Standard independ	ant 0 in (229 mm) diameter 0.10	in (2.5 mm) width, inverted closin	a dicke & proce wheel	
V-Press Wheel With Spring		· · · · · · · · · · · · · · · · · · ·		l in. (25 mm) width rubber V-Pres		
Air Closing MARKERS		Available — a	ii aujust ciosiiig uisk oi v-riess w	heels with AFS Pro 700 or AFS Pro	o 1200 dispiay	
Markers		Standard —	no marker: Available — triple-fold	automatic alternating markers wi	th shear holts	
HYDRAULIC / ELECTRICAL / AIR SYSTEM		otanuaru	io marker, Avanable - triple fora,	automatic arternating markers wi	tironical boits	
Hydraulic Direct Drive With Alternator	Sta	ndard – planter mounted, hydraul	ically driven, with Auxiliary Alterna	ator Automation, 200 amp (240 an	np on 47 row) alternator with batte	ery~
Auxiliary PTO Hydraulic Pump				40 GPM (151 LPM) PTO pump^		
Compressed Air	Standard – pla	nter-mounted hydraulic drive com	·		er, controlled through AFS Pro 700	or AFS Pro 1200
DISPLAY SYSTEM	pro-	, , , , , , , , , , , , , , , , , , , ,	,		,	
AFS Pro 700 or AFS Pro 1200 Display		Av	ailable – AFS Pro 700 or AFS Pro 1	200 display — required for opera	tion	
FERTILIZER AND CHEMICAL DELIVERY						
Granular Chemical Option	Available – Si	mart Box® electric insecticide, rov	-by-row overlap control, controlle	d through AFS Pro 700 or AFS Pro	1200. Closed transfer system. In-f	urrow delivery
Liquid Fertilizer	Available — 600 gal. (227	1 L) tank, 3 section control throug	th AFS Pro 700 or AFS Pro 1200. M	linimum 3 gal. per acre application	n. In furrow delivery. Available — ro	w-by-row overlap control^
ROW UNIT TILLAGE						
Fixed Residue Managers				r no-till dual wheel		
Narrow Floating Residue Managers	Available — tine or no-till with depth band dual wheel. Available — AFS Pro 700 or AFS Pro 1200 flotation up/down pressure adjust with CleanSweep® air cylinders					
TRACTOR RECOMMENDATIONS	000 5:0:		0001	040 5404		0001
Engine Horsepower Range*	380-540 hp	380-	620 hp	340-540 hp	380-	620 hp
Hydraulic System*	High flow or twin-flow hydraulic pump					
Number of Hydraulic Remotes	3 with PTO pump, 5 direct drive					

EARLY RISER 2150 FRONT-FOLD PLANTER SPECIFICATIONS

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Packal Prince W245708135 W25758225 The Arragement 14-1	Part	Product Prod	Hydraulic Drawbar	N/A	Avai	ilable			
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Text Arrangement L4-1 2-4-2	Ten Petro	Test	FLOTATION						
Available — 1.9 to pur prov Available — 1.9 to pur prov	SEED ELIVERY Analysis Analysis Analysis 1.5 to per row	See DEVIEW See	Radial Tires	VF 245/7	DR19.5	VF 295/75R22.5			
Bo No Nopper	Potential Pot	Parallel	Tire Arrangement	1-4-	1	2-4-2			
Bible Fill Standard (Optional) Without scales — 100 bu. Intal / With cases — 100 bu. Intal / With cases — 100 bu. Intal / With cases — 120 bu. Intal / With case	Selection Chimater Application Standard - Chimater Application Sta	Without scales — 100 to total Without scales — 100 total W	· ·						
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Seed Tible / Hy Rate Plus** Seed Seasor Advanced Seed Delivery** USD**) Available - Speed Seasor for improved accuracy across multiple seed types & rates Advanced Seed Delivery** USD**) Available - Speed Stude** Parallel Links Tow WITT Parallel Links Standard - cast lower parallel links with 16 in. (406 mm) total vertical row unit travel The Competence Policy / Opener Disk Scrapers Standard - cast lower parallel links with 16 in. (406 mm) total vertical row unit travel The Competence Policy / Opener Disk Scrapers Standard - cast lower parallel links with 16 in. (406 mm) or 1/8 in. (23 mm) depth increments Row Unit TownWITTO WONNEROE Air DownFroe Mith Zero Indeed Depth Adjustment Standard - cast row unit frame with 1/4 in. (64 mm) or 1/8 in. (23 mm) depth increments Row Unit TownWITTO WONNEROE Air DownFroe Mith Automatic Control Air DownFroe Mith Automatic Control Elossie Elossie Air DownFroe Control Control C	Seed time / My Rate Plant's Seed Seesers Standard - 10 LED seed seeser for improved accuracy acress multiple seed plays & cates Ancuarded Seed plays	Seed Time / My Rate Plans" Seed Seesong Standard — 10 LED weed seesone for improved accuracy arises multiple seed types & rates Available — SpeedTurbe** bit delivery system for high accuracy at any speed up to 10 mph* Partial Land	·						
Available — Speed Flucker" (ASD*)* Available — Speed Flucker" (ASD*)* Parallal Links Standard*— cast lower parallel links with 15 in. (495 mm) total vertical row with travel Offset Opener Disks / Opener Disk Strapers Now Unit frame with Zeo Index Depth Adjustment Standard — 15 in. (381 mm) diameter, 0.18 in. (4.5 mm) victh opener disks with external scrapers. Available — Combination internal/external scrapers* Now Unit frame with Zeo Index Depth Adjustment Standard — air downforce with pagues wheel load feedback Now Unit DOWNTORGE Standard — air downforce with gauge wheel load feedback Informatic Deverloree With Automatic Control Standard — air downforce with gauge wheel load feedback With Downtorge Standard — air downforce with gauge wheel load feedback Informatic Deverloree With Automatic Control Standard — air downforce with gauge wheel load feedback With Spring Closing Disk & Press Wheel Air Closing Air Closing Available — air adjust closing disk or Press wheel Air Closing Available — air adjust closing disk & Press Wheel Air Closing Available — air adjust closing disk or Press wheel with AFS Pro 700 or AFS Pro 1200 display Verses Wheel With Spring MARKERS Standard — no marker with wing weight brackets for mounting up to 4 suitcase weights, Available — triple—foot, automatic alternating markers with shear bolts. North Allable — No marker on weight brackets Hydraul Direct Direct With Alternator Available — 10 me which thereased a present on the backets Hydraul Direct Direct With Alternator Available — Air marker on weight brackets Hydraul Direct Direct With Alternator Available — Air marker on weight brackets Hydraul Direct Direct With Alternator Available — Air marker on weight brackets Hydraul Direct Direct With Alternator Available — Air marker on weight brackets Hydraul Direct Direct With Alternator Available — Air marker on weight brackets Hydraul Direct Direct With Alternator Available — Air marker on weight brackets Available — Air marker on weight brackets A	Available Specificial Petit delivery system for high accuracy at any speed up to 10 mpl* Paralle licks Shandard	Available - Speed Fuller* Not light accuracy at any speed up to 10 mph** Parallel Links Standard - cast lower parallel links with 15 lin. (16 file min total vertical row mint travel							
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Parallel Links Standard — cast from parallel links with 16 in. (106 mm) total vertical row unit travel Offset Opener Disk 7 Opener Disk Scrapers Standard — 15 in. (381 mm) diameter, 0.18 in. (4.5 mm) with, opener disks with external scrapers, Available — Combination internal/external scrapers, available — Combination internal/ex	Paralle Links Sandard — east lower paralle links with 15 in , 1406 mm) total particular ow unit travel Offices Opener Disk's Capears (Sandard — 15 in , 1381 mm) diameter, 0.18 in , 145 mm) width, opener disk with extraval scrapers, Available—Combination internal/vectornal scrapers' Row Unit Trave With Zero Index Death Adjustment Amount of Talk in , 12 mm) depth increments Row Unit Trave With Zero Index Death Adjustment Amount of Talk in , 12 mm) depth increments Row Unit Trave With Advance Amount of Talk in , 12 mm) depth increments Row Unit Trave With Advance Amount of Talk in , 12 mm) depth increments Row Unit Trave With Advance Amount of Talk in , 12 mm) depth increments Row Unit Trave With Advance Amount of Talk in , 12 mm) depth increments Row Unit Trave With Advance Amount of Talk in , 12 mm) depth increments Row Unit Trave With Advance Amount of Talk in , 12 mm) depth increments Row Unit Trave With Advance Amount of Talk in , 12 mm) depth increments Row Unit Trave With Advance Amount of Talk in , 12 mm) depth increments Row Unit Trave With Advance Amount of Talk in , 12 mm) width increments Row With Advance Row W	Sandard - load loan profiled prosent blask Stroners Standard - load loan profiled prosent blask Stroners Standard - loa in Standard - load loan profiled profiles with 15 in in .495 mm by total percent draw unit traver.	-	/wanabic op	beit delivery system for high decuracy at any speed up	to 10 mpn			
Standard — 15 in. (38 mm) diameter, 0.18 in. (4.5 mm) width, opener cisks with external scrapers. Available — Combination internal/external scrapers. Row UNIT DownStrock Air Downforce Air Downforce Air Downforce Bisnadard — air downforce with gauge wheel load feedback Hybrarulic Downforce With Automatic Control CEOSING SYSTEM 2-Stage With Spring Closing Disk & Press Wheel Air Downforce Bisnadard — independent 9 in. (2.28 mm) diameter 0.10 in (2.5 mm) width, inverted closing disks & press wheel Air Closing Available — Bisnadard — independent 9 in. (2.28 mm) diameter 0.10 in (2.5 mm) width, inverted closing disks & press wheel Available — air adjust closing disks or V-Press wheels with AFS Pro 700 or AFS Pro 1200 display V-Press Wheel With Spring Available — 12 in. (305 mm) diameter x in. (25 mm) width rubber V-Press wheels Markers Standard — no marker with wing weight brackets for mounting up to 4 suitcase weights, Available — triple-fold, automatic alternating markers with shear bolts. Available — Home after mounted, hydraulic calley drive accounts with proper and plant and a planter-mounted hydraulic drive compressor with wet lube, 5 gal. (18.92 L) air tank and 2 micron air filter, controlled through AFS Pro 700 or AFS Pro 1200 display EERTILIZER AND CHEMICAL DELIVERY Liquid Fertilizer Collevey Available — AFS Pro 700 or AFS Pro 1200 display — required for operation Electric Drive Granular Chemical Available — Smart Box* electric insecticies, one-by-two-two-two-proportion inspirable memory with seed memory Available — Smart Box* electric insecticies, one-by-two-overlap control in sync with seed memory Available — Smart Box* electric insecticies, one-by-two-overlap control in sync with seed memory Available — Smart Box* electric insecticies, one-by-two-overlap control in sync with seed memory Available — Smart Box* electric insecticies, one-by-two-overlap control in sync with seed memory Available — Smart Box* electric insecticies, one-by-two-overlap control in sync with seed memory	Standard — 15 in. (38 I mm) diameter, 0, 18 in. (4.5 mm) width, opener disks with external scrapers. Available — Combination internal/external scrapers.	Offset Opener Disks / Opener Disks with external scrappers. Available — Combination internal/octernal scrappers* Row Unit To Outher Septim Authority Zero United Supplish Alignstoment Row Unit To Outher Septim Authority Zero United Supplish Alignstoment Row Unit To Outher Septim Authority Zero United Supplish Alignstoment (Sample Supplish Alignstoment) Row Unit To Outher Septim Authority Zero United Supplish Alignstoment (Sample Supplish Alignstoment) Row Unit To Outher Septim Authority Zero United Supplish Alignstoment (Sample Supplish Alignstoment) Row Unit To Outher Septim Alignstoment (Sample Supplish Alignstoment) Row Unit To Outher Septim Alignstoment (Sample Supplish Alignstoment) Row United Supplish Alignstoment (Sample Supplish Alignstoment (Sample Supplish Alignstoment) Row United Supplish Alignstoment (Sample Supplish Alignstoment (Sample Supplish Alignstoment) Row United Supplish Alignstoment (Sample Supplish Alignstoment) Row United Supplish Alignstoment (Sample Supplish Al		Standard —	cast lower parallel links with 16 in (406 mm) total vertical row u	ınit travel			
Row UNIT Fourwhore Standard — cast row unit frame with 1/4 in. (6.4 mm) or 1/8 in. (3.2 mm) depth increments ROW UNIT DOWNFORCE RIP DOWNFORCE Standard — air downforce with gauge wheel load feedback Hydraulic Downforce With Automatic Control Available — Delta Farce** adds or removes weight automatically, row by row CLOSING SYSTEM 2. Stage With Spring (Dosing Disk & Press Wheel Available — 10 in. (2.5 mm) width, inverted closing disks & press wheel Ar Clasing Available — 12 in. (305 mm) diameter (1.10 in (2.5 mm) width, inverted closing disks & press wheel Available — 12 in. (305 mm) diameter V-Press wheels with AFS Pro 700 or AFS Pro 1200 display Y-Press Wheel With Spring Available — 12 in. (305 mm) diameter x in. (25 mm) width rubber V-Press wheels MARKERS Standard — no marker with wing weight brackets for mounting up to 4 suitcase weights, Available — 1-1 pine-fold, automatic alternating markers with shear bolts. Markers Standard — planter mounted, hydrauliced private mounted, hydrauliced private properties with battery— Available — 10 marker with wing weight brackets for mounting up to 4 suitcase weights, Available — 1-1 pine-fold, automatic alternating markers with shear bolts. Markers Standard — planter mounted, hydrauliced private mounted, hydrauli	Row LINE Transe With Zero Indeex Depth Adjustment ROW LINE TO DOWN FORCE All Downshores All Downshores All Downshores All Downshores With Action and Control Available— Deltaf ronce® and for removes weight submarkeally, row by row CISSING SYSTEM 2. Stage with Spring Closing Bisk & Press Wheel All Closing Available— Bisk & Press Wheel With Spring Available— 1 in, (25 mm) width rubber V-Press wheel Available— 1 in, (25 mm) width rubber V-Press wheel Analysis Closing Bisk & Press Wheel With Spring Available— 2 in, (30 mm) diameter v.1 lin. (25 mm) width rubber V-Press wheel Analysis Closing Bisk & Press Wheel With Spring Available— 1 in, (30 mm) diameter v.1 in, (25 mm) width rubber V-Press wheels Analysis Closing Bisk & Press Wheel With Spring Available— 2 in a diameter on weight throught Spring Available— 2 in a diameter on weigh	Row Unit Frame with Zero Indeed Epith Adjustment Standard — acts row unit frame with I/A in. (6.4 mm) or I/B in. (3.2 mm) depth increments	·		·				
ROW UNIT DOWNFORCE Standard — air downforce with gauge wheel load feedback	ROW INT DOWNFORCE Standard — air downforce with gauge wheel load feedback Air Downforce With Automatic Control Available — Delta Farce* adds or removes weight automatically, row by row	South Properties Standard - air downforce with gauge wheel load feedback Hydraulic Dounforce With Automatic Control Available - Delta Force* adds or removes weight automatically, row by row				·			
Air Downforce With Automatic Control Available — DeltaForce* adds or removes weight automatically, row by row CUSINS SYSTEM 2- Stage With Spring Closing Disk & Press Wheel Air Closing System (1998)	Application Demotrace With Automatic Central Pulphranic Centr	## District Note		Standard – Ca	31 TOW UNITE HAINE WITH 1/4 III. (0.4 IIIII) OF 1/0 III. (3.2 IIIII) depth	Therements			
Hydraulic Downforce With Automatic Control Available — DeltaForce® adds or removes weight automatically, row by row CLOSING SYSTEM 2-Stage With Spring Closing Disk & Press Wheel Air Closing Available—air adjust closing disk or V-Press wheels with AFS Pro 1200 display V-Press Wheel With Spring Available—12 in. (305 mm) diameter Q.10 in (2.5 mm) width rubber V-Press wheels MARKERS Markers Standard—no marker with wing weight brackets for mounting up to 4 suitcase weights; Available—triple-fold, automatic alternating markers with shear bolts. HYDRAULIC / ELECTRICAL / AIR SYSTEM Hydraulic Diver Drive With Alternator Available—12 in. (25 mm) with rubber V-Press wheels The Available—12 in. (25 mm) with rubber V-Press wheels Standard—no marker with wing weight brackets for mounting up to 4 suitcase weights; Available—triple-fold, automatic alternating markers with shear bolts. HYDRAULIC / ELECTRICAL / AIR SYSTEM Hydraulic Diver Drive With Alternator Available—2 cPM (83 LPM)* Compressed Air Standard—planter-mounted hydraulic drive compressor with wet lube, 5 gal. (18.92 L) air tank and 2 micron air filter, controlled through AFS Pro 700 or AFS Pro 1200 display—required for operation FERTILIZER AND CHEMICAL DELIVERY Liquid Fertilizer (10 Row Seed Hopper Jank, Bulk-fill Seed Hopper Jank, Without Tanks) Available—4FS Pro 700 or AFS Pro 1200 display—required for operation FERTILIZER AND CHEMICAL DELIVERY Liquid Fertilizer (10 Row Seed Hopper, Ann., Bulk-fill Seed Hopper Jank, Bulk-fill Seed Hopper Jank, Without Tanks) Available—4FS Pro 700 or AFS Pro 1200 display—required for operation on the substitute of the su	Hydraulic Downforce With Automatic Control CLOSING SYSTEM Standard — independent 9 in. (228 mm) diameter 0.10 in (2.5 mm) width, inverted closing disks & press wheel Air Closing Available — air adjust closing disk or V-Press wheels with AFS Pro 700 or AFS Pro 1200 display - V-Press Wheel With Spring Available — 1 in. (305 mm) diameter 1 in. (25 mm) width prober V-Press wheels Markers Markers Standard — no marker with wing weight brackets for mounting up to 4 success weights, Available — triple—fold, automatic alternating markers with shear bolts. Available — Mo marker mounted, hydraulic plane — Mo marker mounted, hydraulic plane — Mo marker move weight wackets HYDRAULIC / ELECTRICAL / AIR SYSTEM Hydraulic Dienet Drive With Alternator Auxiliary P10 Hydraulic Plane Standard — planeter-mounted hydraulic drive compressor with wet luce, 5 gal. (18.92 L) air tank and 2 micron air filter, controlled through AFS Pro 700 or AFS Pro 1200 Gompressed Air Standard — Standard — planeter-mounted bydraulic drive compressor with wet luce, 5 gal. (18.92 L) air tank and 2 micron air filter, controlled through AFS Pro 700 or AFS Pro 1200 INSPERY SYSTEM AFS Pro 1200 bisplay ERETITIZER AND CHEMICAL DELIVERY Liquid Fertilizer (In Row Seed Hopper Tank, Blish-fill Seed Hopper Tank, Without Tanks) Available — 500 gal. (2271 L) tank with on-row seed hopper. 400 gal. (1514 L) tank with bulk-fill seed hopper, a on an in with centrifugal pump & 3 section control through AFS Pro 700 or Pro 120 distributer of the planeter flowing fertilizer coulter? ROW UNIT TILLAGE Nonfloating Residue Manager Available — 13 in. (330 mm) diameter pin adjust time or no-tiln wheel Without depth band closed wheel. Available — 13 in. (330 mm) diameter pin adjust time or no-till wheel without depth band closed wheel. Available — 16 in. (406 mm) diameter coulter? ROW UNIT TILLAGE Nonfloating Residue Manager Available — 10 in. (406 mm) diameter coulter? Available — 10 in. (406 mm) diameter coulter? Available — 10 in. (406 mm) diameter cou	Nydraulic Downforce With Automatic Control **Posta Whee Control*** **Control*** System*** **Control*** System*** **Standard – independent 9 in. (228 mm) diameter 0.10 in (2.5 mm) width, inverted clessing disks & press wheel **Air Closing **Airallable – air adjust closing disk & Press Wheel **Airallable – air adjust closing disk or **Press wheels with AFS Pro 700 or AFS Pro 1200 display **Press Wheel With Spring **MarkEER** **MarkEER*			Standard — air downforce with gauge wheel load feedback				
Colsing SYSTEM Standard - independent 9 in. (228 mm) diameter 0.10 in (2.5 mm) width, inverted closing disks & press wheel	C2-Stage With Spring Closing Disk & Press Wheel Standard – independent 9 in. (228 mm) diameter 0.10 in (2.5 mm) width, inverted closing disk & press wheel Arc Tolsing Available – 3ir adjust closing disk or V-Press wheels with AFS Pro 700 or AFS Pro 1200 display	**ESTAGE** With Spring** Closing Disk & Press Wheel Ar Closing Available — Pair adjust closing disk or Y-Press wheels with AFS Pro 700 or AFS Pro 1200 display V-Press Wheel With Spring Available—12 in, (305 mm) diameter x1 in. (25 mm) width rubber V-Press wheels **MARKERS **Standard — no marker with wing weight brackets for mounting up to 4 suitcase weights. Available—triple—lod, automatic alternating markers with shear bolts. **Northalian — Northalian							
2-Stage With Spring Closing Disk & Press Wheel Air Closing Available—air adjust closing disk or V-Press wheels with AFS Pro 700 or AFS Pro 1200 display - V-Press Wheel With Spring Available—12 in. (305 mm) diameter ×1 in. (25 mm) width, inverted closing disks & press wheel MARKERS Markers Standard—no marker with wing weight brackets for mounting up to 4 suitcase weights, Available—Triple-fold, automatic alternating markers with shear bolts. Available—No marker now weight brackets Hydraulic Direct Drive With Alternator Available—No marker now weight brackets Hydraulic Durect Drive With Alternator Available—Por marker now weight brackets Available—AFS Pro 700 or AFS Pro 1200 display Compressed Air Standard—planter-mounted hydraulic drive compressor with wet lube, 5 gal. (18.92 L) air tank and 2 micron air filter, controlled through AFS Pro 700 or AFS Pro 1200 display—required for operation FERTILIZER AND CHEMICAL DELIVERY Liquid Fertilizer (On Row Seed Hopper Tank, Bülk-fill Seed Hopper Tank, Without Tanks) Available—600 gal. (2271 L) tank with on-row seed hopper, 400 gal. (1514 L) tank with bulk-fill seed hopper, or no tank with centrifugal pump & 3 section control through AFS Pro 700 or AFS Pro 1200 display—required for operation FERTILIZER AND CHEMICAL DELIVERY Liquid Fertilizer Delivery Available—10 in. (400 gal. (1514 L) tank with bulk-fill seed hopper, or no tank with centrifugal pump & 3 section control through AFS Pro 700 or AFS Pro 1200 display—required for operation FROW JUNT TILLAGE Nonfloating Residue Manager Available—Smart Box® electric insecticide, row-by-row overlap control, controlled through AFS Pro 700 or AFS Pro 1200. Closed transfer system. In-furrow delivery Row Junt Till.AGE Available—AFS Pro 700 or AFS Pro 1200 of AFS	2-Stage With Spring Closing Disk & Press Wheel Air Closing Arallable—air adjust closing disk or V-Press wheels with AFS Pro 700 or AFS Pro 1200 display - V-Press Wheel With Spring Available—12 in. (25 mm) width, inverted closing disks & press wheel - Arallable—air adjust closing disk or V-Press wheels with AFS Pro 700 or AFS Pro 1200 of AFS Pro 1200 of AFS Pro 1200 or AFS Pro 1200 closed transfer system. In-furrow delivery - Available—Shart Box* - Available—Shart Box* - Available—Shart Box* - Available—In in. (406 mm) diameter or 100 in (2.5 mm) width, inverted closing disks & press wheel - Arallable—AFS Pro 700 or AFS Pro 1200 display - Available—The mounted of suitable or a very suitab	Standard - independent 9 in, 1228 mm) idianeter 2, 10 in (2.5 mm) width, invested closing disk & press wheel Air Closing		Availa	ble – beltar lice adds of femoves weight automaticany, row by	TOW			
Air Closing Available — air adjust closing disk or V-Press wheels with AFS Pro 700 or AFS Pro 1200 display V-Press Wheel With Spring Available — 12 in. (305 mm) diameter x 1 in. (25 mm) width rubber V-Press wheels Markers Standard — no marker with wing weight brackets for mounting up to 4 suitcase weights, Available — triple-fold, automatic alternating markers with shear bolts. Available — No marker no weight brackets Hydraulic Direct Drive With Alternator Auxiliary PTO Hydraulic Pump Compressed Air Compressed Air Standard — planter mounted, hydraulically driven 200 amp alternator with battery— Available — 22 GPM (83 t PM)* Compressed Air ArS Pro 700 or AFS Pro 1200 Display FERTILIZER AND CHEMICAL DELIVERY Liquid Fertilizer (On Row Seed Hopper Tank, Bulk-fill Seed Hopper Tank, Without Tanks) Electronic Individual Row Liquid Fertilizer Shutoff Liquid Fertilizer Delivery Available — Some automatic overlap control in sync with seed meter' Liquid Fertilizer Chemical Available — Some automatic overlap control in sync with seed meter' Liquid Fertilizer Chemical Available — Some automatic overlap control in sync with seed meter' Liquid Fertilizer Chemical Available — Some automatic overlap control in sync with seed meter' Liquid Fertilizer Chemical Available — Some automatic overlap control, controlled through AFS Pro 700 or AFS Pro 1200 Closed transfer system. In-furrow delivery ROW UNIT TILLAGE North Lang North Lang North Lang North Lang Available — Some automatic overlap control in up/down pressure adjust with CleanSweep® air cylinders Standard — no marker with wing weight brackets for mounter of pake mount or plate mount trillage adapters Available — 15 in. (406 mm) diameter coulter' Available — 16 in.	Available — air adjust closing disk or VPress wheels with AFS Pro 700 or AFS Pro 1200 display V-Press Vibred With Spring MARKERS Markers Standard — no marker with wing weight brackets for nounting up to 4 suitcase weights, Available — triple-fold, automatic alternating markers with shear bolts. Markers Hydraulic Direct Drive With Alternator Available — No marker no weight brackets Hydraulic Direct Drive With Alternator Available— No marker no weight brackets Hydraulic Direct Drive With Alternator Available— No marker no weight brackets Hydraulic Direct Drive With Alternator Available— No marker no weight brackets Available— 12 Cg PM (83 LPM)* Available— 22 Cg PM (83 LPM)* Available— 22 Cg PM (83 LPM)* Available— 22 Cg PM (83 LPM)* Available— 23 Li (8.9 2 Li	Available — air adjust closing disk or V-Press wheels with AFS Pro 700 or AFS Pro 1200 display V-Press Wheel With Spring Available — 12 in., 1005 mm) diameter ty in., (25 mm) with rubber V-Press wheels MARKERS MARKERS Standard — no marker with wing weight brackets for mounting up to 4 suitcase weights, Available—Tiple-fold, automatic alternating markers with shear bolts. Available — No marker no weight brackets Hydraulic Direct Drive With Alternator Available — No marker no weight brackets Hydraulic Direct Drive With Alternator Available—QE PM (83 IPM)* Compressed Air DISPLAY SYSTEM Standard—planter-mounted, hydraulically driven 200 amp alternator with battery— Available—2 CPM (83 IPM)* Compressed Air DISPLAY SYSTEM Available—AFS Pro 700 or AFS Pro 1200 display — required for operation FERFILLIZER AND OREMINICAL DELLIVERY Liquid Fertilizer (no Rwo Seed Hopper Tank, Bulk-fill Seed Hopper Tank, Without Tanks) Electronic Individual Row Liquid Fertilizer Shutoff Available—AFS Pro 700 or AFS Pro 1200 display — required for operation FERFILLIZER AND OREMINICAL DELLIVERY Liquid Fertilizer (no Rwo Seed Hopper Tank, Bulk-fill Seed Hopper Tank, Without Tanks) Available—Afford the Care and Chemical Coverlag control in sync with seed meter' Liquid Fertilizer Delivery Available—Are automatic overlag control in sync with seed meter' Available—Are automatic overlag control in sync with seed meter' Available—Are automatic overlag control in sync with seed meter' Available—Are automatic overlag control in sync with seed meter' Available—Are automatic overlag control in sync with seed meter' Available—Are automatic overlag control in sync with seed meter' Available—Are automatic overlag control in sync with seed meter' Liquid fertilizer Delivery Available—Are automatic overlag control in sync with seed meter' Available—Are automatic overlag control in sync with seed meter' Available—Are automatic overlag control in sync with seed meter' Available—Are automatic overlag control in sync with see		Standard - independent 9 in (228 mm) diameter 0.10 in (2.5 mm) width, inverted electing dieke 8 proces wheel					
V-Press Wheel With Spring Available — 12 in. (305 mm) diameter × 1 in. (25 mm) width rubber V-Press wheels Standard — no marker with wing weight brackets for mounting up to 4 suitcase weights; Available — triple-fold, automatic alternating markers with shear bolts. Available — No marker no weight brackets HYDRAULIC / ELECTRICAL / AIR SYSTEM Hydraulic Direct Drive With Alternator Auxiliary PTO Hydraulic Pump Standard — planter mounted, hydraulic ally driven 200 amp alternator with battery— Available — 22 GPM (83 LPM)^^ Compressed Air DISPLAY SYSTEM AFS Pro 700 or AFS Pro 1200 Display FERTILIZER AND CHEMICAL DELLYERY Liquid Fertilizer (On Row Seed Hopper Tank, Bulk-fill Seed Hopper Tank, Without Tanks) Electronic Individual Row Liquid Fertilizer Shutoff Liquid Fertilizer Delivery Available — 600 gal. (2 271 L) tank with on-row seed hopper, 400 gal. (1514 L) tank with bulk-fill seed hopper, or no tank with centrifugal pump & 3 section control through AFS Pro 700 or Pro Electronic Individual Row Liquid Fertilizer Shutoff Available — automatic overlap control in sync with seed meter^ Liquid Fertilizer Delivery Available — Frame mounted 2 × 2 15 in. (381 mm) diameter liquid fertilizer coulter, available — row unit mounted 2 × 2 15 in. (381 mm) diameter liquid fertilizer coulter, available — row unit mounted 2 × 2 15 in. (381 mm) diameter pin adjust tine or no-fill wheel without depth band Floating Residue Manager Available — Smart Box® electric insecticide, row-by-row overlap control, controlled through AFS Pro 700 or AFS Pro 1200 Closed transfer system. In-furrow delivery Available — Smart Box® electric insecticide, row-by-row overlap control, controlled through AFS Pro 700 or AFS Pro 1200 Closed transfer system. In-furrow delivery Available — Smart Box® electric insecticide, row-by-row overlap control, controlled through AFS Pro 700 or AFS Pro 1200 Closed transfer system. In-furrow delivery Available — Smart Box® electric insecticide, row-by-row overlap control, controlled through AFS Pro 7	Public Note	Available 12 in. (305 mm) diameter x1 in. (25 mm) width rubber V-Press wheels		·	<u> </u>				
Markers Standard – no marker with wing weight brackets for mounting up to 4 suitcase weights; Available — triple-fold, automatic alternating markers with shear bolts. Available — No marker no weight brackets Hydraulic Direct Drive With Alternator Auxiliary PTO Hydraulic Pump Compressed Air Standard – planter-mounted hydraulic drive compressor with wet lube, 5 gal. (18,92 L) air tank and 2 micron air filter, controlled through AFS Pro 700 or AFS Pro 1200 Display FERTILIZER AND CHEMICAL DELIVERY Liquid Fertilizer (On Row Seed Hopper Tank, Without Tanks) Electronic Individual Row Liquid Fertilizer Shutoff Available — 600 gal. (2271 L) tank with on-row seed hopper, 400 gal. (1514 L) tank with bulk-fill seed hopper, or no tank with centrifugal pump & 3 section control through AFS Pro 700 or AFS Pro 1200 Display Fertilizer Delivery Electric Drivery Available — 600 gal. (2271 L) tank with on-row seed hopper, 400 gal. (1514 L) tank with bulk-fill seed hopper, or no tank with centrifugal pump & 3 section control through AFS Pro 700 or Pro 1200 display — required for operation Fertilizer Coulter or Now Seed Hopper Tank, Without Tanks or Available — 600 gal. (2271 L) tank with on-row seed hopper, or no tank with centrifugal pump & 3 section control through AFS Pro 700 or Pro 1200 display — required for operation of the proper of the pr	Markers Standard – no marker with wing weight brackets for mounting up to 4 suitcase weights, Available — triple-fold, automatic alternating markers with shear bolts. Available — No marker no weight brackets FYORAULIC F ELECTRICAL / AIR SYSTEM Hydraulic Direct Drive With Alternator Available—12 CPM (83 LPM)^ Compressed Air Onspressed Air FERTILIZER AND CHEMICAL DELIVERY Liquid Fertilizer (On Row Seed Hopper Tank, Without Tanks) Available—600 gal. (2271 L) tank with on-row seed hopper, 400 gal. (1514 L) tank with bulk-fill seed hopper, or no tank with centrifugal pump & 3 section control through AFS Pro 700 or AFS Pro 1200 display — required for operation— FERTILIZER AND CHEMICAL DELIVERY Liquid Fertilizer (On Row Seed Hopper Tank, Without Tanks) Available—600 gal. (2271 L) tank with on-row seed hopper, 400 gal. (1514 L) tank with bulk-fill seed hopper, or no tank with centrifugal pump & 3 section control through AFS Pro 700 or AFS Pro 1200 display — required for operation— FERTILIZER AND CHEMICAL DELIVERY Liquid Fertilizer Collectric (On Row Seed Hopper Tank, Without Tanks) Available—600 gal. (2271 L) tank with on-row seed hopper, 400 gal. (1514 L) tank with bulk-fill seed hopper, or no tank with centrifugal pump & 3 section control through AFS Pro 700 or AFS Pro 1200 display — required for operation— FROM UNIT TULLAGE Nonfloating Residue Manager Nonfloating Residue Manager Available—13 in. (331 mm) diameter iliquid fertilizer coulter', Available—row unit mounted 2 × 2 15 in. (381 mm) diameter pin adjust tine or no-till wheel without depth band for no-till with depth band dual wheel. Available—AFS Pro 700 or AFS Pro 1200 fraction un/down pressure adjust with CleanSweep® air cylinders and the	Markers Standard — no marker with wing weight brackets for mounting up to 4 suitcase weights, Available — triple-fold, automatic alternating markers with shear bolts. Available — No marker no weight brackets Hydraulic Drect Drive With Alternator Auxiliany P10 Hydraulic Pump Standard — planter-mounted hydraulic drive compressor with wet lube, 5 gal. (18.92 L) air tank and 2 micron air filter, controlled through AFS Pro 700 or AFS Pro 1200 display — required for operation Standard — planter-mounted hydraulic drive compressor with wet lube, 5 gal. (18.92 L) air tank and 2 micron air filter, controlled through AFS Pro 700 or AFS Pro 1200 display — required for operation Standard — planter-mounted hydraulic drive compressor with wet lube, 5 gal. (18.92 L) air tank and 2 micron air filter, controlled through AFS Pro 700 or AFS Pro 1200 display — required for operation Standard — planter-mounted hydraulic drive compressor with wet lube, 5 gal. (18.92 L) air tank and 2 micron air filter, controlled through AFS Pro 700 or AFS Pro 1200 display — required for operation AVAILABLE — AFS Pro 700 or AFS Pro 1200 display — required for operation AVAILABLE — AFS Pro 700 or AFS Pro 1200 display — required for operation AVAILABLE — AFS Pro 700 or AFS Pro 1200 display — required for operation of through AFS Pro 700 or AFS Pro 1200 display — required for operation of through AFS Pro 700 or AFS Pro 1200 display — required for operation of through AFS Pro 700 or AFS Pro 1200 display — required for operation of through AFS Pro 700 or AFS Pro 1200 display — required for operation of through AFS Pro 700 or AFS Pro 1200 display — required for operation of through AFS Pro 700 or AFS Pro 1200 display — required for operation of through AFS Pro 700 or AFS Pro 1200 display — required for operation of through AFS Pro 700 or AFS Pro 1200 display — required for operation of through AFS Pro 700 or AFS Pro 1200 display — required for operation of through AFS Pro 700 or AFS Pro 1200 display — required for operation of through AFS Pro 70							
Markers Standard — no marker with wing weight brackets for mounting up to 4 suitcase weights, Available — triple-fold, automatic alternating markers with shear bolts. Available — No marker no weight brackets Hydraulic Direct Drive With Alternator Avxilable — No marker no weight brackets Standard — planter mounted, hydraulically driven 200 amp alternator with battery— Avxilable — 22 GPM (83 LPM)^ Compressed Air DISPLAY SYSTEM AFS Pro 700 or AFS Pro 1200 Display AFS Pro 1200 or AFS Pro 1200 Display FERTILIZER AND CHEMICAL DELIVERY Liquid Fertilizer (On Row Seed Hopper Tank, Bulk-fill Seed Hopper Tank, Without Tanks) Available — 600 gal. (2271 L) tank with on-row seed hopper, 400 gal. (1514 L) tank with bulk-fill seed hopper, or no tank with centrifugal pump & 3 section control through AFS Pro 700 or Pro 1200 display — required for operation FERTILIZER AND CHEMICAL DELIVERY Liquid Fertilizer (On Row Seed Hopper Tank, Bulk-fill Seed Hopper Tank, Without Tanks) Available — 600 gal. (2271 L) tank with on-row seed hopper, 400 gal. (1514 L) tank with bulk-fill seed hopper, or no tank with centrifugal pump & 3 section control through AFS Pro 700 or Pro 1200 display — required for operation FERTILIZER AND CHEMICAL DELIVERY Liquid Fertilizer (On Row Seed Hopper Tank, Bulk-fill Seed Hopper Tank, Without Tanks) Available — 600 gal. (2271 L) tank with on-row seed hopper, 400 gal. (1514 L) tank with bulk-fill seed hopper, or no tank with centrifugal pump & 3 section control through AFS Pro 700 or Pro 1200 display — required for operation Floating Fertilizer Delivery Available — attendation overlap control in sync with seed meter' Liquid Fertilizer Delivery Available — attendation overlap control in sync with seed meter' Available — attendation overlap control overlap	Markers Standard — no marker with wing weight brackets for mounting up to 4 suitcase weights, Available — riple-fold, automatic alternating markers with shear bolts. Hydraulic Direct Drive With Alternator Standard — planter mounted, hydraulically driven 200 amp alternator with battery— Auxiliary PTO Hydraulic Pump Available — 22 GPM (83 LPM)* Compressed Air Standard — planter mounted hydraulic drive compressor with wet lube, 5 gal. (18 59 L) air tank and 2 micron air filter, controlled through AFS Pro 700 or AFS Pro 1200 display — required for operation — FERTILIZER AND CHEMICAL DELIVERY Liquid Fertilizer (0n Row Seed Hopper Tank, Bulk-fill Seed Hopper Tank, Without Tanks) Available — 600 gal. (2271 L) tank with on-row seed hopper, 400 gal. (1.514 L) tank with bulk-fill seed hopper, on to tank with centrifugal pump & 3 section control through AFS Pro 700 or AFS Pro 1200 display — required for operation — FERTILIZER AND CHEMICAL DELIVERY Liquid Fertilizer (0n Row Seed Hopper Tank, Bulk-fill Seed Hopper Tank, Without Tanks) Available — 600 gal. (2271 L) tank with on-row seed hopper, 400 gal. (1.514 L) tank with bulk-fill seed hopper, on to tank with centrifugal pump & 3 section control through AFS Pro 700 or AFS Pro 1200 display — required for operation — FERTILIZER AND CHEMICAL DELIVERY Liquid Fertilizer (0n Row Seed Hopper Tank, Bulk-fill Seed Hopper Tank, Without Tanks) Available — 600 gal. (2271 L) tank with on-row seed hopper, 400 gal. (1.514 L) tank with bulk-fill seed hopper, on to tank with centrifugal pump & 3 section control through AFS Pro 700 or AFS Pro 1200 closed transfer system. In-furrow delivery available — frame mounted 2 × 2 15 in. (381 mm) diameter liquid fertilizer coulter, available — row unit mounted 2 × 2 15 in. (381 mm) diameter figured fertilizer coulter, available — row unit mounted 2 × 2 15 in. (381 mm) diameter figured fertilizer coulter, available — row unit mounted 2 × 2 15 in. (381 mm) diameter figured fertilizer coulter, available — row unit mounted 2 × 2 15 in. (381 mm) dia	Markers Standard – no marker with wing weight brackets for mounting up to 4 suitcase weights; Available — triple-fold, automatic alternating markers with shear bolts. Available — No marker no weight brackets Hydraulic Direct Drive With Alternator Auxiliacy PTO Hydraulic Dump Standard — planter mounted, hydraulically drive 200 amp alternator with battery— Auxiliacy PTO Hydraulic Pump Standard — planter-mounted hydraulic drive compressor with velt lube, 5 gal. (1832 LPM)' Compressed Air Standard — planter-mounted hydraulic drive compressor with velt lube, 5 gal. (1832 LPM)' DISPLAY SYSTEM Aris Pro 700 or AFS Pro 1200 Display FESTILIZER AND CHEMICAL DELIVERY Liquid Fertilizer AND CHEMICAL DELIVERY Liquid Fertilizer AND CHEMICAL DELIVERY Liquid Fertilizer Shutoff Available — 600 gal. (2271 L) tank with on-row seed hopper, 400 gal. 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In-furrow delivery Bectric Drive Granular Chemical Available — advantace overlap control, controlled through AFS Pro 700 or AFS Pro 1200 or AFS Pro 1200 distation up/down pressure adjust with CleanSweep® air cylinders		Available	- 12 III. (303 IIIIII) dialiletei × 1 III. (23 IIIIII) Widtii Tubbei V-1 less	o Wileels			
HYDRAULIC PLECETRICAL / AIR SYSTEM Hydraulic Direct Drive With Alternator Available — No marker no weight brackets Standard — planter mounted, hydraulically driven 200 amp alternator with battery— Available — 22 GPM (83 LPM)^ Compressed Air Standard — planter-mounted hydraulic drive compressor with wet lube, 5 gal. (18.92 L) air tank and 2 micron air filter, controlled through AFS Pro 700 or AFS Pro 1200 display — required for operation FERTILIZER AND CHEMICAL DELIVERY Liquid Fertilizer (On Row Seed Hopper Tank, Bulk-fill Seed Hopper Tank, Without Tanks) Available — 600 gal. (2271 L) tank with on-row seed hopper, 400 gal. (1514 L) tank with bulk-fill Seed hopper, or no tank with centrifugal pump & 3 section control through AFS Pro 700 or AFS Pro 1200 display — required for operation FERTILIZER AND CHEMICAL DELIVERY Liquid Fertilizer (On Row Seed Hopper Tank, Bulk-fill Seed Hopper Tank, Without Tanks) Available — 600 gal. (2271 L) tank with on-row seed hopper, 400 gal. (1514 L) tank with bulk-fill Seed hopper, or no tank with centrifugal pump & 3 section control through AFS Pro 700 or Pro Electric inclividual Row Liquid Fertilizer Colivery Available — automatic overlap control in sync with seed meter' Available — automatic overlap control in sync with seed meter' Available — automatic overlap control lable — row unit mounted 2×2 15 in. (381 mm) diameter liquid fertilizer coulter', Available — row unit mounted 2×2 15 in. (381 mm) diameter liquid fertilizer coulter', Available — row unit mounted 2×2 15 in. (381 mm) diameter pin adjust tine or no-till wheel without depth band Floating Residue Manager Available — Available — AFS Pro 700 or AFS Pro 1200 flosted transfer system. In-furrow delivery Available — Afs Pro 700 or AFS Pro 1200 flosted transfer system. In-furrow delivery Available — Afs Pro 700 or AFS Pro 1200 flosted transfer system. In-furrow delivery Available — Afs Pro 700 or AFS Pro 1200 flosted transfer system. In-furrow delivery Available — Afs Pro 700 or AFS Pro 1200 flosted transfer sy	HYDRAULIC F ELECTRICAL / AIR SYSTEM Hydraulic Direct Drive With Alternator Auxiliary PTO Hydraulic Pump Compressed Air Ars Pro 700 or AFS Pro 1200 Display AFS Pro 700 or AFS Pro 1200 Display AFS Pro 700 or AFS Pro 1200 Display Ars PRO 900 and AFS Pro 1200 Display Ars PRO 900 and AFS Pro 1200 Display Ars Pro 700 or AFS Pro 1200 Display	HyDRAULIC FLECTRICAL / AIR SYSTEM Hydraulic Direct Drive With Alternator Auxiliary PTO Hydraulic Pump Compressed Air Standard – planter mounted, hydraulically driven 200 amp alternator with battery— Auxiliary PTO Hydraulic Pump Compressed Air Standard – planter mounted hydraulic drive compressor with tube, 5 gal. (18.92 L) air tank and 2 micron air filter, controlled through AFS Pro 700 or AFS Pro 1200 DISPLAY SYSTEM AFS Pro 700 or AFS Pro 1200 Display AFRITIZER AND CHEMICAL DELIVERY Liquid Fertilizer (On Row Seed Hopper Tank, Bulk-fill Seed Hopper Tank, Without Tanks) Available – 600 gal. (2271 L) tank with on-row seed hopper, 400 gal. (1514 L) tank with bulk-fill seed hopper, or no tank with centrifugal pump & 3 section control through AFS Pro 700 or AFS Pro 1200 display — required for operation Available — automatic overlap control in sync with seed meter' Available — automatic overlap control in sync with seed meter' Available — automatic overlap control in sync with seed meter' Available — automatic overlap control in sync with seed meter' Available — more unit mounted 2×2 15 in. (381 mm) diameter liquid fertilizer coulter', Available — row unit mounted 2×2 15 in. (381 mm) diameter liquid fertilizer coulter' Available — Smart Box® electric insecticide, row-y-row overlap control, controlled through AFS Pro 700 or AFS Pro 1200 Closed transfer system. In-furrow delivery BOW LINT TILLAGE Northous Granular Chemical Available — Smart Box® electric insecticide, row-y-row overlap control, controlled through AFS Pro 700 or AFS Pro 1200 filted tinnup/down pressure adjust with CleanSweep® air cylinders Available — Smart Box® Landard — available — Available — AFS Pro 700 or AFS Pro 1200 filted tinnup/down pressure adjust with CleanSweep® air cylinders Available — Smart Box® Landard — available — Smart Box® Landard — Available — Smart Box® Landard — Available — Smart Box®	MARKERS	Standard no marker with wing weight brackets	for mounting up to A suitease weights. Available triple fold a	utamatic alternating markers with chear helts			
HyDRAULIC / ELECTRICAL / AIR SYSTEM Hydraulic Direct Drive With Alternator Auxiliary PTO Hydraulic Pump Compressed Air DISPLAY SYSTEM AFS Pro 700 or AFS Pro 1200 Display AFS Pro 700 or AFS Pro 1200 Display Available – AFS Pro 700 or AFS Pro 1200 Display FRUITER AND CHEMICAL DELIVERY Liquid Fertilizer (On Row Seed Hopper Tank, Bulk-fill Seed Hopper Tank, Without Tanks) Available – 600 gal. (2271 L) tank with on-row seed hopper, 400 gal. (1514 L) tank with bulk-fill seed hopper, or no tank with centrifugal pump & 3 section control through AFS Pro 700 or Pro Electronic Individual Row Liquid Fertilizer Shutoff Liquid Fertilizer Delivery Available – automatic overlap control in sync with seed meter' Liquid Fertilizer Delivery Available – frame mounted 2 × 2 15 in. (381 mm) diameter liquid fertilizer coulter', Available — row unit mounted 2 × 2 15 in. (381 mm) diameter liquid fertilizer coulter' Electric Drive Granular Chemical Available – Smart Box® electric insecticide, row-by-row overlap control, controlled through AFS Pro 700 or AFS Pro 1200. Closed transfer system. In-furrow delivery ROW UNIT TILLAGE Nonfloating Residue Manager Available — Available — AFS Pro 700 or AFS Pro 1200 floation up/down pressure adjust with CleanSweep® air cylinders 25 Wave Coulter Available — 15 in. (406 mm) diameter coulter' Available — 34 setum on till gee adapters	Hydraulic Direct Drive With Alternator Auxiliary PTO Hydraulic Pump Compressed Air Compressed Air Standard – planter-mounted hydraulic drive compressor with wet lube, 5 gal. (18.92 L) air tank and 2 micron air filter, controlled through AFS Pro 700 or AFS Pro 1200 display — required for operation FERTILIZER AND CHEMICAL DELIVERY Liquid Fertilizer (90 Row Seed Hopper Tank, Bulk-fill Seed Hopper Tank, Without Tanks) Liquid Fertilizer (90 Row Seed Hopper Tank, Bulk-fill Seed H	Hydraulic Direct Drive With Alternator Available — 22 GPM (83 LPM)^ Compressed Air Compressed Ai	Markers	Standard — no marker with wing weight brackets		utomatic afternating markers with shear ports.			
Hydraulic Direct Drive With Alternator Available – 22 GPM (83 LPM)^ Compressed Air DISPLAY SYSTEM Ars Pro 700 or AFS Pro 1200 Display Ars Pro 700 or AFS Pro 1200 Display Ars Pro 700 or AFS Pro 1200 Display FERTILIZER AND CHEMICAL DELIVERY Liquid Fertilizer (On Row Seed Hopper Tank, Bulk-fill Seed Hopper Tank, Without Tanks) Electronic Individual Row Liquid Fertilizer Shutoff Liquid Fertilizer Delivery Electric Drive Granular Chemical Available – Smart Box® electric insecticide, row-by-row overlap control, controlled through AFS Pro 1200. Closed transfer system. In-furrow delivery ROW UNIT TILLAGE Nonfloating Residue Manager Floating Residue Manager Available — Ars Pro 700 or AFS Pro 1200 floating up/down pressure adjust with CleanSweep® air cylinders 25 Wave Coulter Available — 16 in. (406 mm) diameter in unit and geadapters Available — 16 in. (406 mm) diameter coulter of Available — 16 in. (406 mm) diameter coulter of Available — 16 in. (406 mm) diameter coulter of Available — 16 in. (406 mm) diameter coulter of Available — 16 in. (406 mm) diameter coulter of Available — 16 in. (406 mm) diameter on till age adapters	Hydraulic Direct Drive With Alternator Auxiliary PTO Hydraulic Pump Available – 22 GPM (83 LPM)* Compressed Air Standard – planter-mounted hydraulic drive compressor with wet lube, 5 gal, (18.92 L) air tank and 2 micron air filter, controlled through AFS Pro 700 or AFS Pro 1200 DISPLAY SYSTEM AFS Pro 700 or AFS Pro 1200 Display AFS Pro 700 or AFS Pro 1200 Display Available – AFS Pro 700 or AFS Pro 1200 Display Available – AFS Pro 700 or AFS Pro 1200 display — required for operation FERTILIZER AND CHEMICAL DELIVERY Liquid Fertilizer (On Row Seed Hopper Tank, Bulk-fill Seed Hopper Tank, Without Tanks) Available – 600 gal. (2271 L) tank with on-row seed hopper, 400 gal. (1514 L) tank with bulk-fill seed hopper, or no tank with centrifugal pump & 3 section control through AFS Pro 700 or Pro 120 display — required for operation Available – automatic overlap control in sync with seed meter — Liquid Fertilizer Delivery Available – frame mounted 2 × 2 15 in. (381 mm) diameter liquid fertilizer coulter*; Available — row unit mounted 2 × 2 15 in. (381 mm) diameter liquid fertilizer coulter. Available — row unit mounted 2 × 2 15 in. (381 mm) diameter liquid fertilizer coulter. Available — Row Pro 700 or AFS Pro 1200 or AFS	Hydraulic Direct Drive With Alternator Auxiliary PTO Hydraulic Drives With Alternator Auxiliary PTO Hydraulic Pump Available—22 CPM (83 LPM)* Compressed Air Standard – planter-mounted hydraulic drive compressor with wet lube, 5 gal. (18.92 L) air tank and 2 micron air filter, controlled through AFS Pro 700 or AFS Pro 1200 Display Available—AFS Pro 700 or AFS Pro 1200 display — required for operation FERTILIZER AND CHEMICAL DELIVERY Liquid Fortilizer (0n Row Seed Hopper Tank, Bulk-fill Seed Hopper Tank, Without Tanks) Available—600 gal. (2271 L) tank with on-row seed hopper, 400 gal. (15.14 L) tank with bulk-fill seed hopper, or no tank with centrifugal pump & 3 section control through AFS Pro 700 or Pro 120 Electronic Individual Row Liquid Fertilizer Shutoff Available—atomatic overlap control in sync with seed meter' Liquid Fortilizer Delivery Available—atomatic overlap control in sync with seed meter' Available—atomatic overlap control, controlled through AFS Pro 700 or AFS Pro 7	HYDRAILIC / FLECTRICAL / AIR SYSTEM		Wallasio No marker no weight stabilities				
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(381 mm) diameter liquid fertilizer coulter' Electric Drive Granular Chemical Available — Smart Box® electric insecticide, row-by-row overlap control, controlled through AFS Pro 700 or AFS Pro 1200. Closed transfer system. In-furrow delivery ROW UNIT TILLAGE Nonfloating Residue Manager Available — 13 in. (330 mm) diameter pin adjust tine or no-till wheel without depth band Floating Residue Manager Available — AFS Pro 700 or AFS Pro 1200 flotation up/down pressure adjust with CleanSweep® air cylinders 25 Wave Coulter Available — 16 in. (406 mm) diameter coulter' Tillage Adapters	Auxiliary PTO Hydraulic Pump Available — 22 GPM (83 LPM)^ Compressed Air Standard — planter-mounted hydraulic drive compressor with wet lube, 5 gal. 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AFS Pro 700 or AFS Pro 1200 display — required for operation FERTILIZER AND CHEMICAL DELIVERY Liquid Fertilizer (On Row Seed Hopper Tank, Bulk-fill Seed Hopper Tank, Bu	AFS Pro 700 or AFS Pro 1200 Display FETTILIZER AND CHEMICAL DELIVERY Liquid Fertilizer (No Row Seed Hopper Tank, Bulk-fill Seed Hopper Tank, Without Tanks) Available – 600 gal. (2271 L) tank with on-row seed hopper, 400 gal. (1514 L) tank with bulk-fill seed hopper, or no tank with centrifugal pump & 3 section control through AFS Pro 700 or Pro 120 Electronic Individual Row Liquid Fertilizer Shutoff Available – automatic overlap control in sync with seed meter' Available – frame mounted 2×2 15 in. (381 mm) diameter liquid fertilizer coulter'; Available — row unit mounted 2×2 15 in. (381 mm) diameter liquid fertilizer coulter' Row Unit Till AGE Nonfloating Residue Manager Available – 13 in. (330 mm) diameter pin adjust tine or no-till wheel without depth band Floating Residue Manager Available – 16 in. (406 mm) diameter coulter' Tillage Adapters TRACTOR RECOMMENDATIONS Engine Horsepower Range* Available – 155–310 hp High flow or twin-flow hydraulic pump Available – 18 Res Pro 700 or AFS Pro 1200 floation up/down pressure adjust with Clean Sweep and Page – 180 pump – 180	AFS Pro 700 or AFS Pro 1200 Display FETILIZER AND CHEMICAL DELIVERY Liquid Fertilizer (On Row Seed Hopper Tank, Bulk-fill Seed Hopper Tank, Without Tanks) Available – 600 gal. (2271 L) tank with on-row seed hopper, 400 gal. (1514 L) tank with bulk-fill seed hopper, or no tank with centrifugal pump & 3 section control through AFS Pro 700 or Pro 120 Electronic Individual Row Liquid Fertilizer Shutoff Available – frame mounted 2×2 15 in. (381 mm) diameter liquid fertilizer coulter', Available — row unit mounted 2×2 15 in. (381 mm) diameter liquid fertilizer coulter' Electric Drive Granular Chemical Available – Smart Box® electric insecticide, row-by-row overlap control, controlled through AFS Pro 700 or AFS Pro 1200. Closed transfer system. In-furrow delivery ROW UNIT TILLAGE Nonfloating Residue Manager Available – 13 in. (330 mm) diameter pin adjust tine or no-till wheel without depth band Floating Residue Manager Available – 4FS Pro 700 or AFS Pro 1200 floation up/down pressure adjust with CleanSweep® air cylinders 25 Wave Coulter Available – 16 in. (406 mm) diameter coulter' Tillage Adapters TRACTOR RECOMMENDATIONS Engine Horsepower Range* 155–310 hp 180–380 hp 280–500 hp High flow or twin-flow hydraulic pump Number of Hydraulic Remotes 3 with direct drive, 3 with PTO pump Dumber of Hydraulic Remotes		Standard — pranter-modified hydraulic drive compre	SSOI WILLI WELLIUDE, 3 gal. (16.32 L) all talik allu 2 lilicioli all filte	ii, controlled tillough Al 3110 700 of Al 3110 1200			
Electronic Individual Row Liquid Fertilizer Shutoff Liquid Fertilizer On Row Seed Hopper Tank, Bulk-fill Seed Hopper Tank, Without Tanks) Electronic Individual Row Liquid Fertilizer Shutoff Available – 600 gal. (2271 L) tank with on-row seed hopper, 400 gal. (1514 L) tank with bulk-fill seed hopper, or no tank with centrifugal pump & 3 section control through AFS Pro 700 or Pro Available – automatic overlap control in sync with seed meter? Liquid Fertilizer Delivery Available – frame mounted 2×2 15 in. (381 mm) diameter liquid fertilizer coulter?; Available — row unit mounted 2×2 15 in. (381 mm) diameter liquid fertilizer coulter? Electric Drive Granular Chemical Available – Smart Box® electric insecticide, row-by-row overlap control, controlled through AFS Pro 700 or AFS Pro 1200. Closed transfer system. In-furrow delivery ROW UNIT TILLAGE Nonfloating Residue Manager Available – 13 in. (330 mm) diameter pin adjust tine or no-till wheel without depth band Floating Residue Manager Available – AFS Pro 700 or AFS Pro 1200 flotation up/down pressure adjust with CleanSweep® air cylinders 25 Wave Coulter Tillage Adapters Available – stern mount or plate mount tillage adapters	FERTILIZER AND CHEMICAL DELIVERY Liquid Fertilizer (On Row Seed Hopper Tank, Bulk-fill Seed Hopper Tank Bulk-fill Seed Hopper Tank Bulk-fill Seed Hopper Tank Bulk-fill Seed Hopper Tank Bulk Seed Hopper Tank, Bulk-fill Seed Hopper Tank Bulk Seed H	FERTILIZER AND CHEMICAL DELIVERY Liquid Fertilizer (On Row Seed Hopper Tank, Bulk-fill Seed Hopper Tank Bulk-fill Seed Hopper Tank, Bulk-fill Seed Hopper Tank Bulk-fil		Availa	hlo AES Pro 700 or AES Pro 1200 display required for appro-	tion			
Liquid Fertilizer (On Row Seed Hopper Tank, Bulk-fill Seed Hopper Tank, Without Tanks) Electronic Individual Row Liquid Fertilizer Shutoff Liquid Fertilizer Delivery Electric Drive Granular Chemical Nonfloating Residue Manager Floating Residue Manager EV Wave Coulter Tillage Adapters Available — 600 gal. (2271 L) tank with on-row seed hopper, 400 gal. (1514 L) tank with bulk-fill seed hopper, or no tank with centrifugal pump & 3 section control through AFS Pro 700 or Pro Available — automatic overlap control in sync with seed meter Available — row unit mounted 2×2 15 in. (381 mm) diameter liquid fertilizer coulter'; Available — row unit mounted 2×2 15 in. (381 mm) diameter liquid fertilizer coulter' Electric Drive Granular Chemical Available — Smart Box® electric insecticide, row-by-row overlap control, controlled through AFS Pro 700 or AFS Pro 1200. Closed transfer system. In-furrow delivery Available — 13 in. (330 mm) diameter pin adjust tine or no-till wheel without depth band Floating Residue Manager Available — 16 in. (406 mm) diameter coulter' Tillage Adapters Available — stern mount or plate mount tillage adapters	Liquid Fertilizer (On Row Seed Hopper Tank, Bulk-fill Seed Hopper, or no tank with centrifugal pump & 3 section control through AFS Pro 700 or Pro 120 Electronic Individual Row Liquid Fertilizer Delivery Liquid Fertilizer Delivery Available – frame mounted 2 × 2 15 in. (381 mm) diameter liquid fertilizer coulter', Available — row unit mounted 2 × 2 15 in. (381 mm) diameter liquid fertilizer coulter' ROW UNIT TILLAGE Nonfloating Residue Manager Available – 13 in. (330 mm) diameter pin adjust tine or no-till wheel without depth band Floating Residue Manager Available — AFS Pro 700 or AFS Pro 1200 floation up/down pressure adjust with CleanSweep® air cylinders 25 Wave Coulter Tillage Adapters Available — 16 in. (406 mm) diameter coulter' Tillage Adapters TRACTOR RECOMMENDATIONS Engine Horsepower Range* 155–310 hp 180–380 hp 280–500 hp High flow or twin-flow hydraulic pump	Liquid Fertilizer (On Row Seed Hopper Tank, Bulk-fill Seed Hopper Tank, Without Tanks) Electronic Individual Row Liquid Fertilizer Shutoff Available — automatic overlap control in sync with seed meter^ Liquid Fertilizer Delivery Available — frame mounted 2 × 2 15 in. (381 mm) diameter liquid fertilizer coulter^; Available — row unit mounted 2 × 2 15 in. (381 mm) diameter liquid fertilizer coulter^ Electric Drive Granular Chemical Available — Smart Box® electric insecticide, row-by-row overlap control, controlled through AFS Pro 700 or AFS Pro 1200. Closed transfer system. In-furrow delivery ROW UNIT TILLAGE Nonfloating Residue Manager Available — 13 in. (330 mm) diameter pin adjust tine or no-till wheel without depth band Floating Residue Manager Available — AFS Pro 700 or AFS Pro 1200 flotation up/down pressure adjust with CleanSweep® air cylinders 25 Wave Coulter Tillage Adapters Available — 16 in. (406 mm) diameter coulter^ Tillage Adapters TRACTOR RECOMMENDATIONS Engine Horsepower Range* 155—310 hp 180—380 hp 280—500 hp High flow or twin-flow hydraulic pump Number of Hydraulic Remotes 3 with direct drive, 3 with PTO pump 2-point hitch: 3 with direct drive, 3 with PTO pump, Drawbar hitch: 4 with direct drive, 4 with PTO pump	1.2	Availa	DIE – AI 3 1 10 700 OI AI 3 1 10 1200 dispiay — Tequiled foi opera	tion			
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Liquid Fertilizer Delivery Available — frame mounted 2×2 15 in. (381 mm) diameter liquid fertilizer coulter*; Available — row unit mounted 2×2 15 in. (381 mm) diameter liquid fertilizer coulter* Row UNIT TILLAGE Nonfloating Residue Manager Available — 13 in. (330 mm) diameter pin adjust tine or no-till wheel without depth band Floating Residue Manager Available — tine or no-till with depth band dual wheel. Available — AFS Pro 700 or AFS Pro 1200 floation up/down pressure adjust with CleanSweep® air cylinders 25 Wave Coulter Tillage Adapters Available — stern mount or plate mount tillage adapters	Liquid Fertilizer Delivery Available – frame mounted 2 × 2 15 in. (381 mm) diameter liquid fertilizer coulter'; Available — row unit mounted 2 × 2 15 in. (381 mm) diameter liquid fertilizer coulter' Available – Smart Box® electric insecticide, row-by-row overlap control, controlled through AFS Pro 700 or AFS Pro 1200. Closed transfer system. In-furrow delivery ROW UNIT TILLAGE Nonfloating Residue Manager Available – 13 in. (330 mm) diameter pin adjust tine or no-till wheel without depth band Floating Residue Manager Available – AFS Pro 700 or AFS Pro 1200 flotation up/down pressure adjust with CleanSweep® air cylinders 25 Wave Coulter Tillage Adapters TRACTOR RECOMMENDATIONS Engine Horsepower Range* 155–310 hp 180–380 hp 280–500 hp High flow or twin-flow hydraulic pump	Liquid Fertilizer Delivery Available—frame mounted 2×2 15 in. (381 mm) diameter liquid fertilizer coulter'; Available—row unit mounted 2×2 15 in. (381 mm) diameter liquid fertilizer coulter' ROW UNIT TILLAGE Nonfloating Residue Manager Available—13 in. (330 mm) diameter pin adjust tine or no-till wheel without depth band Floating Residue Manager Available—tine or no-till with depth band dual wheel. Available—AFS Pro 700 or AFS Pro 1200 floation up/down pressure adjust with CleanSweep® air cylinders 25 Wave Coulter Tillage Adapters TRACTOR RECOMMENDATIONS Engine Horsepower Range* High flow or twin-flow hydraulic pump Number of Hydraulic Remotes Available—and the coulter in adjust tine or no-till wheel without depth band Available—15 in. (300 mm) diameter pin adjust tine or no-till wheel without depth band Available—AFS Pro 700 or AFS Pro 1200 floation up/down pressure adjust with CleanSweep® air cylinders Available—16 in. (406 mm) diameter coulter' Tillage Adapters Available—18 in. (406 mm) diameter coulter Available—19 in. (406 mm) diameter pin adjust tine or no-till wheel without depth band Available—AFS Pro 700 or AFS Pro 1200 floation up/down pressure adjust with CleanSweep® air cylinders Available—16 in. (406 mm) diameter coulter' Tillage Adapters Available—16 in. (406 mm) diameter pin adjust tine or no-till wheel without depth band Available—AFS Pro 700 or AFS Pro 1200 floation up/down pressure adjust with CleanSweep® air cylinders Available—16 in. (406 mm) diameter pin adjust tine or no-till wheel without depth band Available—AFS Pro 700 or AFS Pro 1200 floation up/down pressure adjust with CleanSweep® air cylinders Available—16 in. (406 mm) diameter pin adjust tine or no-till wheel without depth band Available—AFS Pro 700 or AFS Pro 1200 floation up/down pressure adjust with CleanSweep® air cylinders Available—16 in. (406 mm) diameter pin adjust tine or no-till wheel without depth band Available—AFS Pro 700 or AFS P			** *	magar pamp & 5 section control through At 51 10 700 of 110 1200			
Electric Drive Granular Chemical Available – Smart Box® electric insecticide, row-by-row overlap control, controlled through AFS Pro 700 or AFS Pro 1200. Closed transfer system. In-furrow delivery Nonfloating Residue Manager Available – 13 in. (330 mm) diameter pin adjust tine or no-till wheel without depth band Floating Residue Manager Available – tine or no-till with depth band dual wheel. Available — AFS Pro 700 or AFS Pro 1200 floation up/down pressure adjust with CleanSweep® air cylinders 25 Wave Coulter Tillage Adapters Available – stern mount or plate mount tillage adapters	Electric Drive Granular Chemical ROW UNIT TILLAGE Nonfloating Residue Manager Available – 13 in. (330 mm) diameter pin adjust tine or no-till wheel without depth band Floating Residue Manager Available – 16 in. (406 mm) diameter coulter Tillage Adapters TRACTOR RECOMMENDATIONS Engine Horsepower Range* High flow or twin-flow hydraulic pump	Electric Drive Granular Chemical ROW UNIT TILLAGE Nonfloating Residue Manager Available – 13 in. (330 mm) diameter pin adjust tine or no-till wheel without depth band Floating Residue Manager Available – 16 in. (406 mm) diameter coulter Tillage Adapters TRACTOR RECOMMENDATIONS Engine Horsepower Range* Engine Horsepower Range* Number of Hydraulic System* Number of Hydraulic semotes Available – Smart Box® electric insecticide, row-by-row overlap control, controlled through AFS Pro 1200. Closed transfer system. In-furrow delivery Available – 13 in. (330 mm) diameter pin adjust tine or no-till wheel without depth band Available – AFS Pro 700 or AFS Pro 1200 flotation up/down pressure adjust with CleanSweep® air cylinders Available – 16 in. (406 mm) diameter coulter^ Tractor Recommendations 155–310 hp 180–380 hp 280–500 hp High flow or twin-flow hydraulic pump Number of Hydraulic Remotes 3 with direct drive, 3 with PTO pump 2-point hitch: 3 with direct drive, 3 with PTO pump; Drawbar hitch: 4 with direct drive, 4 with PTO pump	·			2.15 in (201 mm) diameter liquid fortilizer coultor^			
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Nonfloating Residue Manager Available — 13 in. (330 mm) diameter pin adjust tine or no-till wheel without depth band Available — 13 in. (330 mm) diameter pin adjust tine or no-till wheel without depth band Available — AFS Pro 700 or AFS Pro 1200 floation up/down pressure adjust with CleanSweep® air cylinders Available — 16 in. (406 mm) diameter coulter^ Tillage Adapters Available — stern mount or plate mount tillage adapters	Nonfloating Residue Manager Available — 13 in. (330 mm) diameter pin adjust tine or no-till wheel without depth band Available — 16 in. (406 mm) diameter coulter Tillage Adapters TRACTOR RECOMMENDATIONS Engine Horsepower Range* Available — 15 in. (300 mm) diameter pin adjust tine or no-till wheel without depth band Available — AFS Pro 700 or AFS Pro 1200 flotation up/down pressure adjust with CleanSweep® air cylinders Available — 16 in. (406 mm) diameter coulter^ Tractor Recommendations Engine Horsepower Range* 155—310 hp 180—380 hp 280—500 hp High flow or twin-flow hydraulic pump	Nonfloating Residue Manager Floating Residue Manager Available – 13 in. (330 mm) diameter pin adjust tine or no-till wheel without depth band Available – 15 Pro 700 or AFS Pro 1200 floation up/down pressure adjust with CleanSweep® air cylinders Available – 16 in. (406 mm) diameter coulter^ Tillage Adapters TRACTOR RECOMMENDATIONS Engine Horsepower Range* 155–310 hp 180–380 hp 280–500 hp Hydraulic System* Number of Hydraulic Remotes 3 with direct drive, 3 with PTO pump 2-point hitch: 3 with direct drive, 3 with PTO pump; Drawbar hitch: 4 with direct drive, 4 with PTO pump		Available — Siliart Box® electric hisecticide, fow-by	-row overlap control, controlled through Ars Pro 700 of Ars Pro	1200. Glosed transfer system. In-furrow delivery			
Floating Residue Manager Available — tine or no-till with depth band dual wheel. Available — AFS Pro 700 or AFS Pro 1200 flotation up/down pressure adjust with CleanSweep® air cylinders Available — 16 in. (406 mm) diameter coulter^ Tillage Adapters Available — stern mount or plate mount tillage adapters	Floating Residue Manager Available – tine or no-till with depth band dual wheel. Available — AFS Pro 700 or AFS Pro 1200 flotation up/down pressure adjust with CleanSweep® air cylinders Available – 16 in. (406 mm) diameter coulter^ Tillage Adapters TRACTOR RECOMMENDATIONS Engine Horsepower Range* 155–310 hp 180–380 hp 280–500 hp Hydraulic System*	Floating Residue Manager Available — tine or no-till with depth band dual wheel. Available — AFS Pro 700 or AFS Pro 1200 flotation up/down pressure adjust with CleanSweep® air cylinders Available — 16 in. (406 mm) diameter coulter^ Tillage Adapters TRACTOR RECOMMENDATIONS Engine Horsepower Range* 155—310 hp 180—380 hp 280—500 hp Hydraulic System* Number of Hydraulic Remotes 3 with direct drive, 3 with PTO pump 2-point hitch: 3 with direct drive, 3 with PTO pump; Drawbar hitch: 4 with direct drive, 4 with PTO pump		Available 1	3 in (330 mm) diameter nin adjust ting or no till wheel without	don'th hand			
25 Wave Coulter Available — 16 in. (406 mm) diameter coulter^ Tillage Adapters Available — stern mount or plate mount tillage adapters	25 Wave Coulter Tillage Adapters TRACTOR RECOMMENDATIONS Engine Horsepower Range* 155–310 hp Hydraulic System* Available – 16 in. (406 mm) diameter coulter^ Available – stern mount or plate mount tillage adapters 180–380 hp 280–500 hp High flow or twin-flow hydraulic pump	25 Wave Coulter Tillage Adapters TRACTOR RECOMMENDATIONS Engine Horsepower Range* Hydraulic System* Number of Hydraulic Remotes Available – 16 in. (406 mm) diameter coulter^ Available – stern mount or plate mount tillage adapters 155–310 hp 180–380 hp 280–500 hp High flow or twin-flow hydraulic pump Number of Hydraulic Remotes 3 with direct drive, 3 with PTO pump 2-point hitch: 3 with direct drive, 3 with PTO pump; Drawbar hitch: 4 with direct drive, 4 with PTO pump				•			
Tillage Adapters Available — stern mount or plate mount tillage adapters	Tillage Adapters TRACTOR RECOMMENDATIONS Engine Horsepower Range* 155–310 hp 155–310 hp Hydraulic System* Available – stern mount or plate mount tillage adapters 180–380 hp 280–500 hp High flow or twin-flow hydraulic pump	Tillage Adapters TRACTOR RECOMMENDATIONS Engine Horsepower Range* 155–310 hp 155–310 hp 180–380 hp 280–500 hp Hydraulic System* Number of Hydraulic Remotes 3 with direct drive, 3 with PTO pump 2-point hitch: 3 with direct drive, 3 with PTO pump; Drawbar hitch: 4 with direct drive, 4 with PTO pump		Available — tille of no-till with depth band dual wh	· · · · · · · · · · · · · · · · · · ·	pressure adjust with dieansweep" air cylinders			
	TRACTOR RECOMMENDATIONS Engine Horsepower Range* 155–310 hp 180–380 hp 280–500 hp Hydraulic System* High flow or twin-flow hydraulic pump	TRACTOR RECOMMENDATIONS 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 with direct drive, 3 with PTO pump 2-point hitch: 3 with direct drive, 3 with PTO pump; Drawbar hitch: 4 with direct drive, 4 with PTO pump			· · · · ·				
	Engine Horsepower Range* 155–310 hp 180–380 hp 280–500 hp Hydraulic System* High flow or twin-flow hydraulic pump	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 with direct drive, 3 with PTO pump 2-point hitch: 3 with direct drive, 3 with PTO pump; Drawbar hitch: 4 with direct drive, 4 with PTO pump			Available – stern mount or plate mount tillage adapters				
	Hydraulic System* High flow or twin-flow hydraulic pump	Hydraulic System*High flow or twin-flow hydraulic pumpNumber of Hydraulic Remotes3 with direct drive, 3 with PTO pump2-point hitch: 3 with direct drive, 3 with PTO pump; Drawbar hitch: 4 with direct drive, 4 with PTO pump		155 0101	100, 200	200 5001			
		Number of Hydraulic Remotes 3 with direct drive, 3 with PTO pump 2-point hitch: 3 with direct drive, 3 with PTO pump; Drawbar hitch: 4 with direct drive, 4 with PTO pump		155-310 hp		280-500 hp			
	Number of Hydraulic Remotes 2-noint hitch: 3 with QTO numn. Drawbar hitch: 4 with direct drive 3 with PTO numn. Drawbar hitch: 4 with direct drive 4 with PTO numn.		<u> </u>						
Number of Hydraulic Remotes 2-point hitch: 3 with direct drive. 3 with PTO pump. Drawbar hitch: 4 with direct drive. 3 with PTO pump. Drawbar hitch: 4 with direct drive. 3 with PTO pump.		Maximum Case Drain Port Back Pressure 26 psi (170 kPa)		3 with direct drive, 3 with PTO pump		Drawbar hitch: 4 with direct drive, 4 with PTO pump			
	Maximum Case Drain Port Back Pressure 26 psi (170 kPa)	· · · · · · · · · · · · · · · · · · ·	Maximum Case Drain Port Back Pressure		26 psi (170 kPa)				

EARLY RISER 2140 PIVOT TRANSPORT PLANTER SPECIFICATIONS

CONFIGURATION	22	0.4	21	20	0.4	0.4
Rows	23	24	1	32	24	24
Spacing	CD 11D CD	15 in. (38		100 110 110	20 in. (508 mm)	22 in. (559 mm)
Section Flex Points	6R-11R-6R	6R-11R-7R	10R-11R-10R	10R-11R-11R	8R-8R-8R	8R-8R-8R
Wing Flex*			+10/-7° (17°			
Frame Size			8" × 8" (20.3 ×			
Toolbar Operating Height			26 in. (660	mm)		
Approximate Transport L × W × H (Includes, Wheeled Carrier, Markers, 2-Stage Closing)	44' 3" × 13' 6" × 10' 4"	$(13.5 \times 4.1 \times 3.1 \text{ m})$	47' 11" × 13' 6" × 10' 4" (14.6 × 4.1 × 3.1 m)	49' 4" × 13' 6" × 10' 4" (15.1 × 4.1 × 3.1 m)	48' 6" × 13' 6" × 10' 4" (14.8 × 4.1 × 3.1 m)	52' 3" × 13' 6" × 10' 4" (15.9 × 4.1 × 3.1 m)
HITCH			(5.00.00.00.00.00.00.00.00.00.00.00.00.00	(2012 *** ***2*** ****)	(2.00111000000)	(2000 110 110 110)
Hydraulic Telescoping Drawbar			Standard – Categ	rory IV hitch		
FLOTATION			Standard — Oatog	gory IV IIItori		
Tire Arrangement			1-4-1			
Center Section Tires With High Flotation Wing Wheels		Standard - center 500/45R20 rad			Standard - center 440/55R18 r	adial & wing 380/55R16.5 radia
Center Section Tracks With High Flotation Wing Wheels			vailable - 2 center section tracks &	wing 380/55R16 5 radial Tires	otaliaara oontoi i io/oontoi	datar & Hing 000/001110.0 radia
Track Carrier Spacing / Track Width			120 in./18 in. (305 cm/46 cm)	ming door don't do. o radial rilioo		132 in./18 in. (336 cm/46 cm
SEED DELIVERY			120 III.7 10 III. (303 CIII7 40 CIII)			102 III.7 10 III. (000 CIII7 40 CII
Bulk Fill			Standard – 80 bu. tota	I with work lights		
Electric Drive Vacuum Seed Meter	Stand	ard — vSet® 2 Vacuum Seed Mete	r with vDrive® Electric Drive Motor,		e and curve compensated spacing	ı
Seed Tube/Hy Rate Plus™ Seed Sensor			10 LED seed sensor for improved ac			9
Advanced Seed Delivery™ (ASD)			peedTube® belt delivery system for			
ROW UNIT			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	and the second s		
Parallel Links		Standard -	- cast lower parallel links with 16 ir	n. (406 mm) total vertical row unit	travel	
Offset Opener Disks/Opener Disk Scrapers	Standard -	15 in. (381 mm) diameter, 0.18 i	n. (4.5 mm) width, opener disks wit	h external scrapers. Available — (Combination internal/external scra	ipers^
Row Unit Frame With Zero Index Depth Adjustment		Standard – c	ast row unit frame with 1/4 in. (6.4	mm) or 1/8 in. (3.2 mm) depth inc	rements	
ROW UNIT DOWNFORCE						
Air Downforce			Standard – air downforce with g	gauge wheel load feedback		
Hydraulic Downforce With Automatic Control		Avai	lable — DeltaForce® adds or remove	s weight automatically, row by row		
CLOSING SYSTEM						
2-Stage With Spring Closing Disk & Press Wheel	Standard — independent 9 in. (228 mm) diameter inverted closing disks & rubber press wheel					
V-Press Wheel With Spring	Available $-$ 12 in. (305 mm) diameter \times 1 in. (25 mm) width rubber V-Press wheels					
Air Closing			Available – air adjust with AFS	Pro 700 or AFS Pro 1200		
MARKERS						
Markers		Standard – no	marker; Available — triple-fold, aut	omatic alternating markers with s	hear bolts	
HYDRAULIC / ELECTRICAL / AIR SYSTEM		Observational and analysis are small			ann at an aith ta attain.	
Hydraulic Direct Drive With Alternator	Standard – planter mounted, hydraulically driven, powersaving automated control, 200 amp alternator with battery~					
Auxiliary PTO Hydraulic Pump	Available — planter mounted 40 gpm (151 lpm) PTO pump^ Standard — planter-mounted hydraulic drive compressor with wet lube, 5 gal. (18.92 L) air tank and 2 micron air filter, controlled through AFS Pro 700 or AFS Pro 1200					
Compressed Air DISPLAY SYSTEM	Standard — plante	er-illountea nyaraulic drive compi	essur with wet lube, 5 gal. (18.92 L) air lank and z micron air tilter, c	untroned through AFS Pro 700 or A	12 110 1700
AFS Pro 700 or AFS Pro 1200 Display		Λυα	lable – AFS Pro 700 or AFS Pro 120	O display - Required for operation		
FERTILIZER AND CHEMICAL DELIVERY		Avai	10010 - ALOTTO 700 01 ALOTTO 120	o alopiay — noquileu ivi vperativii		
Granular Chemical Option	Available – Sma	rt Box® electric insecticide, row-l	oy-row overlap control, controlled th	rough AFS Pro 700 or AFS Pro 120	O. Closed transfer system. In-furro	ow delivery
Liquid Fertilizer With Bulk-fill Option	Available – 400 gal. (1 514 L) total ca					
ROW UNIT TILLAGE		apasicy (2 canno), o socion conti				on by row overlap collector
Fixed Residue Managers			Available – tine or no	-till dual wheel		
Narrow Floating Residue Managers	Available – tine	or no-till with depth band dual v	heel. Available – AFS Pro 700 or AF		ssure adjust with CleanSweep® air	rcylinders
TRACTOR RECOMMENDATIONS					,	
Engine Horsepower Range†	230-34	0 hp	280-	-380 hp	250-	340 hp
Drawbar			drawbar with hammer-strap, 6,700	lbs. (3 039 Kg) minimum static lo		
Hydraulic System†			High flow or twin-flow	hydraulic pump		
Number of Hydraulic Remotes			4 with direct drive, 2	with PTO pump		

EARLY RISER 2130 STACK-FOLD PLANTER SPECIFICATIONS

CONFIGURATION						
Rows		12		16	18 (16R30 with DIA kit installed	
Spacing	30 in. (762 mm)	36 in. (914 mm) 38 in. (965 mm)	40 in. (1016 mm)		(762 mm)	
Section Flex Points	00 III. (702 IIIII)	3R-6R-3R	40 III. (1010 IIIII)	4R-8R-4R	5R-8R-5R	
Wing Flex			8° (16° total)	IN ON IN	on on on	
Wing Turn Assist (Gullwing)			lift when planter is raised for headlan	id turns		
Frame Size			(18 cm × 18 cm)	turns		
Toolbar Operating Height			in. (660 mm)			
Approximate Transport W × H*	20' 6"×11' 1" (6.2×3.4 m)	22' 5"×13' 2" (6.8×4.0 m)		0" (8.13×4.2 m)	27'3"×13'11" (8.3× 4.2 m)	
Weight Empty*	9,500 lb. (4 227 kg)	11,400 lb. (5 182 kg)	11,500 lb. (5 227 kg)	13,500 lb. (6136 kg)	14,500 lb. (6590 kg)	
LIFT SYSTEM	9,500 lb. (4227 kg)	11,400 lb. (3162 kg)	11,500 lb. (5227 kg)	15,500 lb. (0 150 kg)	14,500 lb. (0 550 kg)	
Full Mounted		Standard — 3-point hitch Category III o	or IVN. Catagory IVN recommended wit	h hulk fill		
Semi-Mounted		Avanable – z-point nitch Gategor	y III or IVN with available lift assist wh	ieeis		
FLOTATION		1 0 1 7 C 15 0 - do 18 - m min to - dia 10 mb - m	formula to form to the all or on both and	(i 10D)		
Tire Arrangement		1-2-1, 7.6 × 15 Goodyear® sure grip traction 10-ply; cor				
Wheel Lift Assist		Available — castering VF 245/70R19 Firestone® AD2 radia	; carries 40% to 45% of planter weigh	it depending on configuration		
SEED DELIVERY		Observation 1.0.1	Ale hall fill that for the	Ld. Balak		
Seed Capacity		Standard – 1.9 bu. on-row hoppers; availa				
Electric Drive Vacuum Seed Meter	Standa	ard – vSet 2 vacuum seed meter with vDrive electric drive r			1g	
Seed Tube / Hy Rate Plus [™] Seed Sensor	1	Standard – 10 LED seed sensor for impro				
Advanced Seed Delivery™ (ASD)		Available — SpeedTube® belt delivery syst	em for high accuracy at any speed up	to 10 mph**		
ROW UNIT						
Headbracket Connection to Toolbar	Welded	Bolt-on			elded	
Parallel Links		<u> </u>	vith 16" (406 mm) total vertical row ur			
Offset Opener Disks / Opener Disk Scrapers	Standard -	- 15" (381 mm) diameter, 0.18" (4.5 mm) width, opener dis			pers^	
Frame With Zero Index Depth Adjustment		Standard – cast row unit frame with 1	/4" (6.4 mm) or 1/8" (3.2 mm) depth in	crements		
ROW UNIT DOWNFORCE						
Air Downforce	Standard — air downforce with gauge wheel load feedback					
Hydraulic Downforce With Automatic Control	Available — DeltaForce® adds or removes weight automatically, row by row					
Wing Downforce		Available – provides addit	onal downforce to the toolbar wings			
CLOSING SYSTEM						
2-Stage With Spring Closing Disk and Spring Press Wheel		Standard — Independent 9" (228 mm) dia	meter inverted closing disks & rubber	press wheel		
V-Press Wheel With Spring	Available -12 " (305 mm) diameter \times 1" (25 mm) width rubber V-press wheels					
Air Closing	Available – air adjust with AFS Pro 700 or AFS Pro 1200 display					
MARKERS						
Markers	Standard	d — no marker; available - automatic alternating markers wi	th shear bolts (not available with bulk	-fill)	N/A	
HYDRAULIC / ELECTRICAL / AIR SYSTEM						
Hydraulic Direct Drive With Alternator		Standard — planter-mounted, hydraulically driven, pow	ver saving automated control, 200 amp	alternator with battery~		
Compressed Air	Standard – planter-r	mounted hydraulic drive compressor with wet lube, 5-gal. (18.92-L) air tank and 2 micron air filte	r - controlled through AFS Pro 700	or AFS Pro 1200	
DISPLAY SYSTEM						
AFS Pro 700 or AFS Pro 1200 Display		Available – AFS Pro 700 or AFS	Pro 1200 display - required for operati	on		
FERTILIZER AND CHEMICAL DELIVERY						
Granular Chemical Option	Available — SmartBox electric in	nsecticide, row-by-row overlap control, controlled through <i>F</i>	FS Pro 700 or AFS Pro 1200. Closed tr	ansfer system. In-furrow delivery (not available with bulk-fill)	
Liquid Fertilizer Option for Tractor-Mounted Tanks		control through AFS Pro 700 or AFS Pro 1200. Minimum 3 ga				
RESIDUE MANAGEMENT					·	
Fixed Residue Managers		Available – ti	ne or no-till dual wheel			
Floating Residue Managers	Available – tine o	or no-till with depth band dual wheel. Available - AFS Pro 70		pressure adjust with CleanSween®	air cylinders	
TRACTOR RECOMMENDATIONS		25pm 22m2 222m moon manages 7110 110 70			,	
Engine Horsepower Range**		180-310 hp		190	-380 hp	
Eligille unigenomei ivalige				100-	- 380 (10	

Standard = In base price of the planter * Available = Multiple options available * = Equipped with: 2-stage closing, on-row hoppers, floating row cleaner, air compressor, battery; lift assist add 1,500 lb. (680 kg); Bulk-fill add 1,030 lb. (476 kg) empty, markers add 600 lb. (270 kg) and 11" of transport height * = Pactory-supplied, dealer-installed attachment only



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