THE 9000 SERIES

WHITE PLANTERS

# Accuracy is Everything.

THE 9000 SERIES


WHITE

# There are 5280 feet in a mile

Farmers often plant at approximately 5 MPH or faster.

This means the planter will cover roughly 26,400 feet in an hour or 440 feet per minute.

Every second, the planter covers 7.3 feet of ground. With 6-inch seed spacing, 14.6 seeds are put in the ground each second per row. On a 24-row planter, 350 seeds are planted per second.

One seed can produce about 600 kernels. There are roughly 50 plants in a bushel of corn. This means seven bushels of potential yield is being planted every second on a 24-row planter.

In the time it takes to blink, one bushel of crop is planted. A fraction of a second in delay or imprecision and a bushel is lost.

Our planters are built to help you achieve and maintain maximum accuracy and precise seed placement. With specific technologies at the crucial points in the planter's operation, our design allows seed to move efficiently and uninterrupted from hopper to placement. We pledge to provide you a planter that delivers high-level accuracy and will continue to provide that accuracy consistently.

# Built for accuracy

All planters share basic mechanisms intended to open a trench, singulate seed, drop seed at an intended spacing and depth and close the trench. However, the differences in these designs can have major impacts on accuracy.

**A system for opening the seed trench:** Most planters use a double disc opener. To be accurate, you want a smooth, consistent slit trench.

**The metering system to singulate seed:** Nearly all planters use a disc system. Accuracy can be affected when the disc fails to hold a seed securely, holds seeds at varying distance from each other or causes delays in the dropping of the seed.

**A seed delivery system:** Planter designs vary significantly in where the tube that delivers seed to the trench meets the seed meter. The effect this position has on smooth and consistent movement of seed from meter to trench is one of the most important differences in planter designs and the resulting accuracy of seed spacing.

**A system to set, verify and maintain a particular depth:** Planting systems vary in how they set and regulate depth. Depth control is crucial in many crops to achieve maximum yield.

**Wear and maintenance items that must be serviced in order to maintain accuracy:** As there are many different planter systems, there are also differing wear and maintenance items. When systems become worn, they can affect accuracy, ranging from occasional issues to full planter failure.

# The 9000 Series

## SEED METER A

The entry of seed at the lowest area of the seed sump allows gravity to assist in seed pickup and provides greater surface area to pick up seed, producing superior seed singling.

The long tapered entry to the air cut off brush gently lays the seed down for a consistent retention of the seed in each seed cell.

## ROW UNIT A

The large double disc seed trench openers (16-inch) allow for deeper seed placement.

A cast row unit assembly removes the flex/tolerances versus welded construction, providing strength and precise, consistent alignment of all components.

## SEED DEPTH ADJUSTMENT AND INDICATOR B

The depth adjustment handle provides adjustment and visual indication of planting depth along all row units from .25 to 4.5 inches in .25-inch increments. Each notch aligned left and right changes the depth .5-inch. Walking the handle one notch at a time, side to side, increases the depth .25-inch. Seed depth placement numbers are molded into the casting, providing a convenient visual indicator of the depth of seed placement (in inches) for each row unit.

## DEPTH GAUGE WHEEL ADJUSTING LINK C

The gauge wheel depth adjustment mechanism contains a threaded bolt for the calibration of the seed planting depth as the seed trench disc openers wear and the diameter is reduced. The patented calibration system provides confidence the depth indicator is accurate through the entire depth range. Increased yields are experienced as the walking beam gauge wheels equalize the depth of the planted seed between the soil height on the left and right gauge wheel.


## GAUGE WHEEL ARM SHAFT BUSHING AND SEAL D

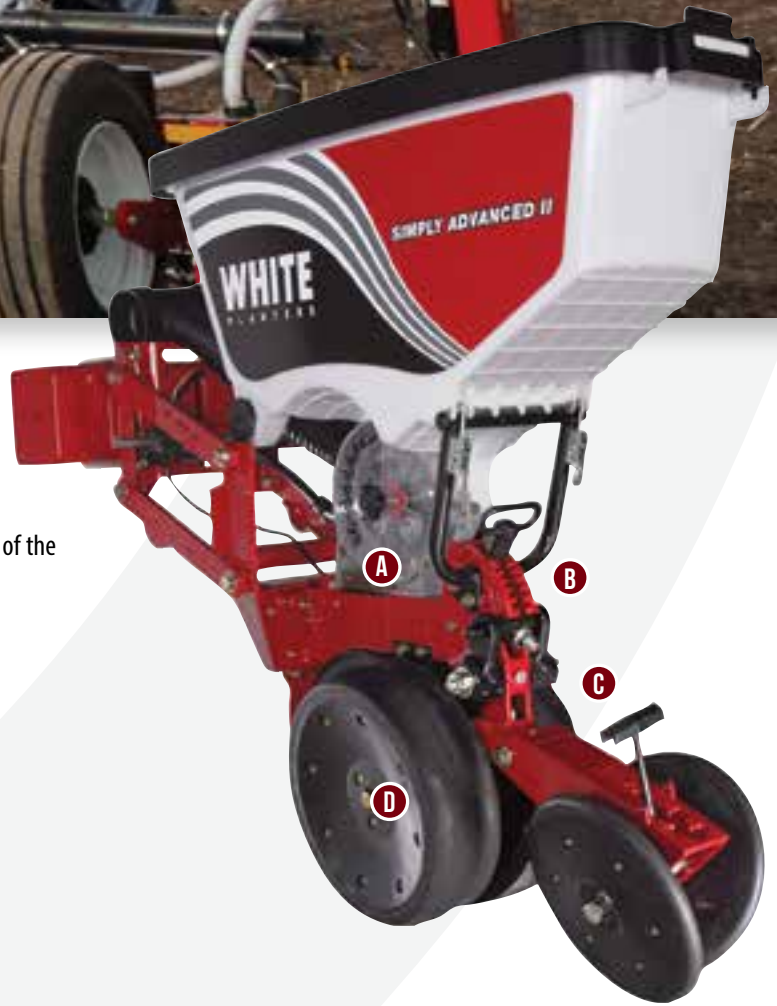
This design incorporates non-metallic composite bushings and shaft seals for maintenance-free performance. The seal reduces the ingestion of foreign material into the maintenance-free composite bushings. Extended operating time improves performance and reduces maintenance to increase the productivity of the planter.

## HEAVY-DUTY GAUGE WHEEL ARMS D

An increased gauge wheel arm life can be expected in abusive planting conditions. No grease zerks are present in the gauge wheel arm pivot. The pivot bearings incorporate non-metallic composite bushings and shaft seals for maintenance-free performance. The gauge wheel arm depth stops are cast into the row unit for consistent range of motion between row units.

## BEARING AND HEAVY-DUTY CAST HUB D

The heavy-duty cast hub (retainer) increases the retention of the bearing for greater durability. The double row ball bearing offers extended bearing life of the seed trench openers.

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# Features

## A HIGH-RATE SEED SENSORS (STANDARD)

Accurately monitor a wide range of seed sizes within a wide range of population rates.

## A SEED-SMART SEED SENSORS (OPTIONAL)

Seed-Smart sensors learn the size of seeds to monitor accurately very small high-value seeds at high population levels. These sensors are a popular option with sugar beet growers.

## B STAGGERED CLOSING WHEELS

The wheels may be staggered for better residue flow between the closing wheels. Staggering also provides superior seed trench closing capabilities in no-till conditions.

## C GAUGE WHEEL BEARINGS

The double-row 40 mm bearings and 16 mm attaching bolt improve the connection between the gauge wheel and the arm. Extended service life of the gauge wheel bearing and attaching hardware can be expected.

## D SEED CLIP

The seed tube locating clip positively centers the seed drop tube between the opener discs. The clip reduces the potential of the seed tube contacting the rotating disc openers, which causes seed tube vibration and wear. The absence of seed tube vibration assures a more consistent placement of seed.

## E EQUALIZER ARM

The equalizer arm permits lateral adjustment to obtain proper contact between the opener disc and the gauge wheels. Loosening the retaining bolt and turning the 28 mm hex adjustment mechanism permits lateral adjustment of the closing wheels against the seed trench openers. The geometry of the row unit to the equalizer arm pivot remains consistent through the full range of adjustment and depth settings.

## F SEED METER ACCESSIBILITY

Open-framed row unit allows unrestricted access to the seed meter for meter inspection and changing seed disc.

## G HEAVY-DUTY DOUBLE DISC SEED TRENCH OPENERS

The 16-inch disc openers are 3.5 mm thick for longer life and increased durability. The opposing bearing design permits the disc openers to share the cutting duties equally, for extended life and superior cutting action. The opener blades feature double-row 26 mm ball bearings with a heavy-duty cast hub, providing increased retention capacity of the bearing for greater durability and extended service life.

## H HEAVY-DUTY WHEEL ARMS

The gauge wheel arm incorporates non-metallic composite bushings and shaft seals for maintenance-free performance. The seal reduces the ingestion of foreign material into the maintenance-free composite bushings. Extended operating time improves performance and reduces maintenance to increase the productivity of the planter.

## I SEED DEPTH PLACEMENT RANGE

The depth adjustment handle provides a visual indication of planting depth along all row units from .25 to 4.5 inches in .25-inch increments. Each notch aligned left and right changes the depth .5-inch. Walking the handle one notch at a time, side to side, increases the depth .25-inch. Seed depth placement numbers are molded into the casting, providing a convenient visual indicator of the depth of seed placement (in inches) for each row unit.

## J SEALED HOPPER LIDS

A positive lock molded latch ensures a firm attachment of the hopper lid. In combination with the sealed lid, the positive latch stops air from escaping the hopper and maximizes efficient use of air supplied to the row units.

## K QUICK-RELEASE METER AND HOPPER REMOVAL

The hopper mounts into two "C" retainers located at the front of the hopper and retained at the rear by two over-center latches. Simply disengage the seed meter clutch and lift the meter and hopper off the row unit by tipping the meter and hopper forward. No tools are required.

# Frames

## 9100 Series Rigid-Frame

*Row Units/Row Spacing Options:* ***6/30, 8/30***
*Options and Attachments:* ***Page 16***
*Specifications:* ***Page 22***

Many operators are looking for a cost-effective planter that can capably handle the wide variety of planting conditions encountered on their operation. The 9100 Series is engineered to accept a full complement of liquid or dry fertilizer attachments as well as row-unit-mounted or frame-mounted tillage attachments that make it the ideal match for conventional, reduced tillage and no-till planting applications.

The 9100 Series main frame is designed to handle the stress of heavy residue and uneven seedbed conditions. And, with the crop versatility of the White Planters™ seed metering system, you can quickly change from corn to soybeans by simply changing the seed disc.

The 9100 Series is capable of providing uniform seed placement in a wide variety of configurations. The White Planters row unit provides outstanding seed placement in conditions that range from conventional through no-till seeding.

## 9180 Series Forward-Fold

*Row Units/Row Spacing Options:* ***12/30, 16/30***
*Options and Attachments:* ***Page 16***
*Specifications:* ***Page 22***

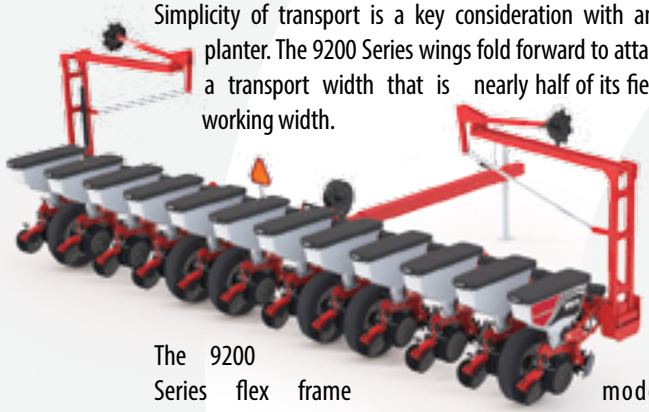
Speed, accuracy and efficiency are all key factors within the narrow window of opportunity during planting season. From the moment you enter the field, the 9180 Series is unfolded and in planting mode in a couple of minutes.

The integral 3-inch-by-3-inch (7.6 cm x 7.6 cm) fertilizer bar provides the ideal platform for mounting a wide selection of optional fertilizer openers. In addition, it enhances the structural integrity of the main frame, making the planter the best choice for challenging no-till conditions. The planter accepts conventional, min-till or no-till fertilizer openers that allow you to place starter fertilizer precisely at the selected depth. The 9180 Series are available with liquid or granular fertilizer attachments.

## 9200 Series Wing Fold

*Row Units/Row Spacing Options:* ***12/30***
*Options and Attachments:* ***Page 16***
*Specifications:* ***Page 22***

Simplicity of transport is a key consideration with any planter. The 9200 Series wings fold forward to attain a transport width that is nearly half of its field working width.



The 9200 Series flex frame model hinges at the center, enabling each wing to flex a full 10 degrees. This enables the frame to flex a full 20 degrees up or down, hugging rolling terrain and terraces. If frame flex is not a requirement on your ground, the 9200 Series is also available in a rigid frame model with the same full range of features and attachments.

### ROW UNIT FLEXIBILITY

The 9200 Series wing fold planters are designed to accept row-unit-mounted tillage attachments. Optional 3-bushel (0.11 m3) hoppers provide a full 50% more planting time between fill-ups.

### SEED DRIVE TRANSMISSION

Each half of the model 9222 flex frame planter features an independent contact tire driven transmission. The model 9202 rigid frame planter is driven by a single contact tire driven transmission.

### LIQUID FERTILIZER (OPTIONAL)

For increased productivity, equip the 9200 Series planter with a liquid fertilizer option with two 200-gallon (757 L) poly tanks. A piston meter pump driven by a contact drive tire dispenses a consistent flow of liquid fertilizer. The ground drive wheels incorporate "float links," providing a smooth, consistent flow of power to the fertilizer pump.

## 9500 Series Flex Frame

*Row Units/Row Spacing Options:* ***12/30, 23/15, 24/20, 24/22,16/30, 31/15***
*Options and Attachments:* ***Page 16***
*Specifications:* ***Page 22***

The 9500 Series Central Fill System (CFS) incorporates time-proven design concepts to provide an onboard bulk seed hopper and seed distribution system.

The 9500 CFS system allows for more time planting rather than refilling individual hoppers.

The 9500 Series is ideally suited to planting a variety of crops including corn, soybeans and sugar beets. When you're ready to switch from soybeans (15 inches/38 cm) to corn (30 inches/76 cm), simply lock up the split rows and quickly change the seed discs.

The 9500 CFS can be configured to plant fields of seed corn or refuge corn (non-Bt). Simply replace the meter cover on specific rows on the outer wings with the 2-bushel or 3-bushel hoppers.

## 9700 Series Stacker Toolbar

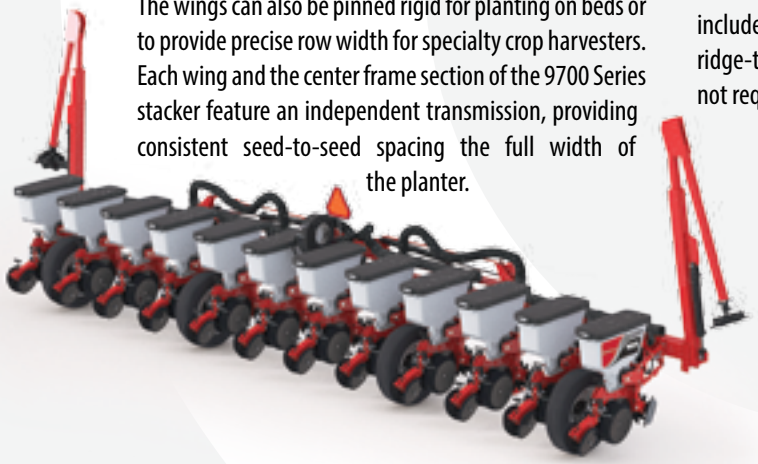
*Row Units/Row Spacing Options:* ***8/30,12/30***
*Options and Attachments:* ***Page 16***
*Specifications:* ***Page 22***

The innovative folding mechanism of the 9700 Series stacker toolbar planter hydraulically lifts the outer wings over the center section, keeping the chemical and seed hoppers upright for transport.

### WING FLEX

When in the planting mode, the outer wings flex 5 degrees up and 5 degrees down to provide accurate seed depth control the full width of the machine in rolling terrain.

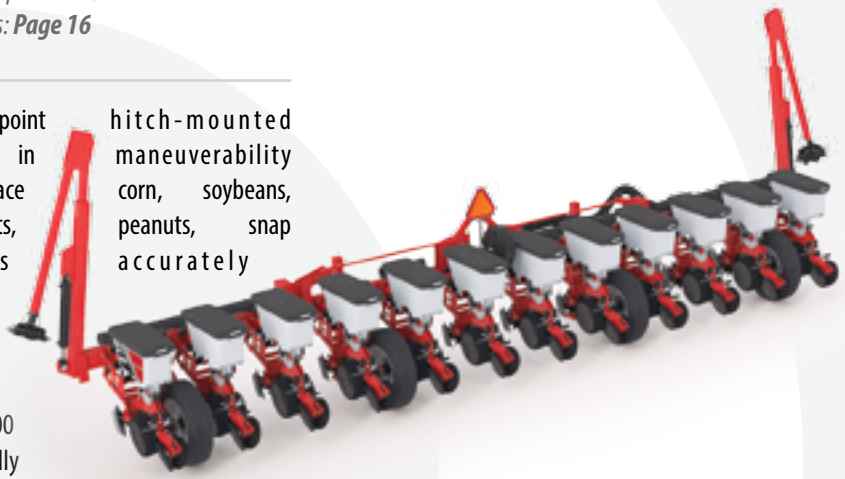
The wings can also be pinned rigid for planting on beds or to provide precise row width for specialty crop harvesters. Each wing and the center frame section of the 9700 Series stacker feature an independent transmission, providing consistent seed-to-seed spacing the full width of the planter.



## 9700 Series Rigid & Vertical-Fold

*Row Units/Row Spacing Options:* ***12/30***
*Options and Attachments:* ***Page 16***
*Specifications:* ***Page 22***

Each 9700 Series 3-point hitch-mounted planter is unmatched in maneuverability and the ability to place corn, soybeans, cotton, sugar beets, peanuts, snap beans and edible beans accurately in conventional tillage and specialty crop applications.



The design of the 9700 Series makes it ideally suited for applications that include conventional tillage, ridge-till, planting on beds and other applications that do not require a planter-mounted fertilizer attachment.

# 9800 Series Narrow-Transport

*Row Units/Row Spacing Options:* ***12/30, 16/30, 24/30***
*Options and Attachments:* ***Page 16***
*Specifications:* ***Page 22***

Each model of the 9800 Series is available as ground drive or hydraulic drive, and they conveniently fold from planting position to transport position without leaving the tractor cab.

These models combine the advantages of the White Planters positive air seed singling accuracy with the convenience of narrow transport.

## LIQUID FERTILIZER (OPTIONAL)

The optional 750-gallon (2839.1 L) liquid fertilizer attachment may also be combined with these models equipped with 2- or 3-bushel (0.07 or 0.11 $m^2$) seed hoppers. Double disc or single disc side knife liquid fertilizer openers may be used in combination with row-unit-mounted tillage coulters. An available factory-installed single piston pump and flow divider accurately meters fertilizer to each fertilizer opener on the models 9812 and 9816. A double piston pump and two 12-row flow dividers are offered for the model 9824.

The 9816 and 9824 models offer a 500 gallon liquid fertilizer tank package in combination with the Central Fill System.

## CENTRAL FILL SYSTEM (CFS)

When equipped with CFS, the 9800 Series carry two 45-bushel (1.6 $m^3$) translucent polyethylene hoppers for extended planting between fill-ups and greatly reduce fill-up time. Convenient steps and platform are located at the rear of the planter for access to the hopper.

## FLEX SHAFT SEED METER DRIVE WITH ELECTRIC CLUTCH (OPTIONAL)

The 9800 Series feature a "Plug and Play" individual automatic row shut-off system (in combination with a GPS receiver) to control the electric clutches. The weatherproof flex shaft provides a maintenance-free operation of the seed meter. The flex shaft provides trouble-free operation when planting into standing residue.

# 9831 Series CFS Narrow-Transport

*Row Units/Row Spacing Options:* ***31/15, 16/30***
*Options and Attachments:* ***Page 16***
*Specifications:* ***Page 22***

The 9831 Series CFS planter features a unique frame specifically designed to save you time and improve productivity. The planter folds to a narrow transport width of 12 feet, 11 inches (4.0 m) in just minutes, helping you get from field to field quickly and easily. A generous 33 inches (83.8 cm) of ground clearance helps get through rough, rolling terrain.

## OSCILLATING DUAL WHEELS

The 9831 Series narrow row planter is equipped with oscillating dual wheels. This feature allows the wheel set to pivot on an axis parallel to the direction of travel enabling the wheels to conform to a crowned roadway thus dividing the planter's weight equally between all the tires.

## UNIQUE UNDERCARRIAGE

The undercarriage itself is unique to the industry. Two trunnion-mounted hydraulic cylinders lift the planter. In the planting mode, the planter lifts the row units 8 to 10 inches (20.3 to 25.4 cm) above the ground to turn conveniently after each pass across the field. In the transport mode, the planter lifts to its full height for folding the wings.

## CFS SEED DISTRIBUTION

The CFS system includes two 45-bushel (1.6 $m^3$) translucent polyethylene hoppers for a total capacity of 90 bushels (3.2 $m^3$). Each poly hopper sits on a mixing chamber where air and seed are mixed and discharged via a high-capacity blower to individual row units.

The 9831 CFS is ideal for planting corn, soybeans, milo, popcorn and wheat. The split rows can be quickly lifted and locked in place to go from 15-inch (38 cm) narrow rows to standard 30-inch (76 cm) rows.

## FLEX FRAME

The 9831 CFS is classified as a forward fold but offers the additional benefits of a three-section flex frame, meaning the outer wings flex as they encounter uneven terrain instead of the center serving as the only pivot point. This design leads to uniform contact with the ground for more accurate seed placement. The frame also distributes the weight of the planter evenly over the tires, reducing tongue weight and stress on the tractor drawbar.

# 9936 LF Series

*Row Units/Row Spacing Options:* ***36/20, 36/22, 36/30***
*Options and Attachments:* ***Page 16***
*Specifications:* ***Page 22***

The 9936-20, 9936-22 and 9936-30 Large Frame (LF) planters feature the latest in engineering innovation to provide the largest seed and fertilizer carrying capacity with the largest rubber track footprint.

## PNEUMATIC FILL SYSTEM

The pneumatic fill system of the 9936 Series incorporates a cleated belt conveyor to elevate the seed to the tanks. The conveyor is stationary; however, the top slides to fill each seed tank. The belt design reduces seed damage and fill time. The conveyor's belt speed is governed by the flow controlled hydraulic drive.

## TRACK DESIGN, WHEELS & SUSPENSION

The wheels are stamped steel construction for increased strength and the oil bath lubricated hubs reduce maintenance by not requiring daily greasing or seasonal repacking of wheel bearings. The patented, double oscillating bogie wheels maintain constant ground contact of the tracks, providing support on uneven terrain.

## SEED CAPACITY

Two 75-bushel CFS seed hoppers provide 150-bushel seed hopper capacity for extended planting time between fill-ups.

## SEED DRIVE

The hydraulic seed drive not only provides an infinitely variable seeding rate, but also prescription mapping capabilities. The three-section disconnect provides in-cab control of left wing, center and right wing.

## TRANSPORT

The planter folds from planting to transport position and the wing gauge wheels are retracted for a convenient 15-foot (4.5 m) transport width with a ground clearance of 18 inches (46 cm).

# Options and Attachments

## Fertilizer Application

### SINGLE DISC OPENER/LIQUID INJECTOR

Designed for no-till, minimum-till and conventional tillage operations, this single disc fertilizer opener/liquid injector features a spring-mounted tine injector nozzle for liquid fertilizer application. Liquid fertilizer is placed in the soil without the use of a knife, providing plug-free operation.

### SINGLE DISC OPENER/SIDE KNIFE LIQUID OR GRANULAR APPLICATION

Designed for no-till and minimum tillage applications, this single disc fertilizer opener features an austempered side profile knife to place fertilizer up to four inches (102 mm) deep, providing effective placement of fertilizer with minimal adjustment.

### SINGLE DISC OPENER/TRAILING KNIFE LIQUID OR GRANULAR APPLICATION

Designed for no-till planting conditions, this 17-inch (432 mm) disc and knife work well in firm, no-till soil that has residue on the soil surface. The disc cuts residue at the soil surface, and the trailing knife places the fertilizer with minimum soil disturbance.

### DOUBLE DISC OPENER FOR LIQUID OR DRY APPLICATION

Designed for conventional and minimum tillage applications, two 13.5-inch (343 mm) diameter discs are C-spring mounted to an adjustable clamp.

| | 9100 RIGID | 9180 FLEX | 9200 FLEX/RIGID | 9500 FLEX | 9700 TOOLBAR RIGID | 9700 STACKER FLEX | 9800 FLEX | 9831 FLEX | 9936 FLEX |
|---|---|---|---|---|---|---|---|---|---|
| **ROW UNIT ATTACHMENTS** | | | | | | | | | |
| Angled Rubber Closing Wheels | X | X | X | X | X | X | X | X | X |
| Angled Cast Closing Wheels | X | X | X | X | X | X | X | X | X |
| Single "V" Trench Press Wheel (4") | X | X | X | X | X | X | X | X | X |
| Standard-Duty Down Pressure Springs | X | X | X | X | X | X | X | X | |
| Heavy-Duty Down Pressure Springs | X | X | X | X | X | X | X | X | |
| Pneumatic Down Pressure System | | | X | X | X | 12RW, 16R | X | | Std |
| Flex Shaft Seed Meter Drive with Auto Row Shut-Off | | | X | 24R | | 12W, 16R | X | | Std |
| **ROW-UNIT-MOUNTED TILLAGE** | | | | | | | | | |
| Tillage Coulters | X | X | X | X | X | X | X | X | X |
| Residue Managers (30"-40" Row Spacing) | X | X | X | X | X | X | X | | X |
| Tillage Coulter/Residue Manager Combo (30"-40" Rows) | X | X | X | X | X | X | X | | X |
| Trash Masters (30"-40" Row Spacing) | X | X | X | X | X | X | X | | X |
| Bed Leveler (30"-40" Row Spacing) | X | X | X | X | X | X | X | | X |
| **FRAME-MOUNTED TILLAGE** | | | | | | | | | |
| Tillage Coulter | X | X | | | X | | | | |
| Residue Managers | X | X | | | X | | | | |
| Tillage Coulter/Residue Manager Combo | X | X | | | X | | | | |
| Strip-Ridge Till | X | X | | | X | | | | |
| **OTHER OPTIONS/ATTACHMENTS** | | | | | | | | | |
| Liquid Fertilizer | X | X | X | | | | X | | X* |
| Granular Fertilizer | X | X | | | | | | | |
| Heavy-Duty Flat-Fold Row Markers | 8R | X | X | X | X | | X | X | 20" & 22" |
| Rear-Fold Low-Profile Markers | | | | | | X | | | |
| Hydraulic Variable Rate Seed Drive | | | Optional on 9222 | Std | 12R | 12RW, 16R | X | X | X |
| ISOBUS Ready | | | X | X | Hyd Drive Models | Hyd Drive Models | X | X | X |
| Hydraulic PTO Pump | X | X | X | X | X | X | X | X | |

* Frame-mounted fertilizer openers not available on the 9936

# Fertilizer Metering & Other Attachments

## PISTON PUMP A

The variable stroke, double-acting, single or double piston metering pump dispenses a consistent flow of liquid fertilizer. All internal parts that come in contact with fertilizer are stainless steel.

## FLOW DIVIDER PACKAGE B

The piston pump flow divider provides optimum liquid fertilizer metering accuracy to each fertilizer opener. The application rate per acre remains constant over a wide range of planting speeds.

## DRIVE WHEEL ROCK GUARD C

Protects the drive chain from rocks and root balls.

## BLOWER INLET SCREEN D

Protects the blower system from pulling residue into the air system.


# Row Unit Attachments

## DISC TRASH MASTER E

Two 12-inch (305 mm) diameter solid discs clear a clean path in front of the seed openers, moving residue to the side to avoid hair pinning residue into the seed trench. Adjusts in 1/4-inch (6 mm) increments.

## COMBINATION RESIDUE MANAGER/BLADE F

Finger wheels or SharkTooth® wheels clear seedbed of loose residue while blade works seedbed path. Simply pin the residue wheels up to use the tillage coulter alone.

## TILLAGE COULTER G

The coulter and the row unit both work off the same planter parallel links for a precise alignment and depth relationship. The constant alignment of the coulter and disc openers ensure that the seed is placed in a seed trench with no air space below the seed that could cause poor seed-to-soil contact and slow germination.

## FLOATING RESIDUE MANAGER H

Thirteen-inch (330 mm) SharkTooth wheel and depth bands provide aggressive residue movement from the path of the row unit. The unit-mounted residue wheels float over the surface, and the depth bands assure the right depth of operation and prevent gouging or furrowing of the soil.

## FINGER RESIDUE MANAGER I

Ideal for medium to high residue levels, the 13-inch (330 mm) diameter steel finger wheels clear residue away from the seed opener. Adjusts in .25-inch (6 mm) increments so you can set it low enough to move residue aside, yet high enough to avoid creating an unwanted trench.

## ANGLED RUBBER PRESS WHEELS J

Improve seed-to-soil contact in heavier soil and moderate no-till conditions. Adjust wheels by offsetting them or changing width from 1.25 to 2.88 inches (32 to 73 mm) for improved performance at various seed depth and soil conditions. Adjustable down pressure: 50 to 133 lbs. (23-133 kg.)

## ANGLED CAST-IRON PRESS WHEELS K

Great for closing the toughest seed trench. Recommended for tough no-till. Adjust wheels by offsetting or changing width for improved performance in high-residue and no-till conditions. Adjustable down pressure: 115 to 310 lbs. (52-141 kg.)

## SINGLE V-TRENCH PRESS WHEEL L

Firms both sides of the seed trench in mellow soil conditions. Advantageous for shallow planting in tilled soil. The center of the seed trench is capped for a soft top. Adjustable down pressure: 50 lb. to 133 lb. (23-133 kg.)

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## 5/16" RIPPLE BLADE M

Creates little soil disturbance and operates well at all speeds. It provides a narrow seed trench of less than 3/4 inches (19 mm). For heavy residue or sod, the blade slices through the toughest conditions.

## 3/4" BUBBLE BLADE N

Wedges soils apart to provide a V-seed trench and operates well at most speeds. It provides a seed trench profile of less than 3/4 inches (19 mm) in the bottom to 1 1/4 inches (32 mm) on the top. Works well in compacted soils with high residue.

## 7/8" 8, 13 OR 25-FLUTE BLADES O

The 13-flute provides aggressive soil and residue mixing. The 25-flute is less aggressive. Both operate well at most speeds. They provide a seed trench width of 7/8 to 1 1/4 inches (22 to 32 mm). Cuts through residue very well and ideal for medium soils.


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# Monitors and Technology

## ISOBUS MONITOR SYSTEMS

Harness the full potential of White Planters with the ISOBUS-Ready system. ISOBUS provides a single-point connection for seed drive control and seed monitor functions and places the controls inside the cab at the operator's fingertips. ISOBUS is an industry standard that enables single-point connection not only to AGCO®-manufactured tractors, but any tractor that incorporates ISOBUS technology.

### C3000 TERMINAL/MONITOR

Features a highly visible touch screen with icon-based user interface on the 12.1-inch color display. Four-channel map-based variable rate planting automatically adjusts planting/seeding rates using Global Navigation Satellite Systems for ISO-controlled planters.

The Auto Row Shut-Off feature controls up to 24 sections of individual rows or 36 rows of dual row control. Compatible with the Auto-Guide™ 3000.

### C1000 TERMINAL/MONITOR

Controls and monitors ISOBUS planters on the 7-inch color display with soft key operation. Four-channel map-based variable rate planting automatically adjusts planting/seeding rates using Global Navigation Satellite Systems for hydraulic seed drive. Compatible with Auto-Guide 3000.

## MONITORS

### SM400SE SEED POPULATION MONITOR

Monitors up to 24 rows of high-rate sensors. The user selects the type and number of parameters to be monitored.

### SM300 SEED POPULATION MONITOR

Monitors up to eight rows of high-rate seed sensors. The Liquid Crystal Display (LCD) provides row information in bar graphs, gauges or flashing bar segments.

### SM100 SEED FLOW MONITOR

Monitors up to eight rows of high-rate seed sensors and features an automatic sensor to detect seed flow. Light Emitting Diode (LED) row indicators display the status of each seed sensor on the planter.

# Specifications

| MODEL FAMILY | 9100 RIGID | 9180 FORWARD-FOLD | 9200 WING-FOLD | 9500 FLEX-FRAME [1] | 9700 RIGID |
|---|---|---|---|---|---|
| FRAME TYPE | PULL-TYPE, RIGID, SINGLE BAR | PULL-TYPE, HORIZONTAL FORWARD-FOLD FLEX, SINGLE BAR, 2-SECTION | PULL-TYPE, HORIZONTAL FORWARD WING-FOLD RIGID OR FLEX, SINGLE BAR, 2-SECTION | PULL-TYPE, FORWARD WING-FOLD, FLEX, SINGLE BAR[1], 3-SECTION | MMOUNTED, RIGID, SINGLE BAR |
| Rows/Spacing Available | 6R30, 8R30 | 12R30, 16R30 | 12R30 | 12R30/23R15FN, 24R20, 24R22, 16R30/31R15FN | 8R30, 12R30 |
| Hitch on Planter | Adjustable Clevis | 2-point hitch, ASAE Category II or III | Adjustable Clevis | | Adjustable ASAE Category II or III |
| Frame Flex | None | 7˚ up/ 7˚ down | 10˚ up/10˚ down on flex model | 8˚ up/8˚ down | None |
| Frame Size in. (mm) | 7 x 7 (178 x 178) | | | | |
| Planting Capabilities | Conventional till<br>No-till<br>Ridge-till | | Conventional till<br>No-till | | Conventional till<br>No-till<br>Ridge-till |
| Drive - Standard | Ground: chain & sprockets | | | ISO CAN-based variable rate hydraulic drive | Ground: chain & sprockets |
| Drive - Optional | None | | | | ISO CAN-based variable-rate hydraulic drive on 12 row |
| Transmission | Quick-adjust, center-mounted. Interchangeable sprockets provide 32 settings to obtain seed rate increments of less than 4%. | 2 transmissions, 1 on each wing, Quick-adjust. Interchangeable sprockets provide 32 settings to obtain seed rate increments of less than 4%. | Flex-frame: 2 transmissions, 1 on each wing<br>Rigid frame: Single transmission<br>Quick-adjust, interchangeable sprockets Provide 32 settings to obtain seed rate increments of less than 4%. | Hydraulic controller & motor with infinite population settings | Quick-adjust, center-mounted. Interchangeable sprockets provide 32 settings to obtain seed rate increments of less than 4%. |
| Lift System | Wheel module w/hydraulic cylinder | | | | Tractor 3-point hitch |
| Number | 4 | 4 on 12R, 8 on 16R<br>Optional 6 or 8 on 12R | 6 | 6 on 23R, 8 on 16R, 8 on 24R, 8 on 31R | Tractor 3-point + optional rear lift assist |
| Tires<br>Transport Tire Size<br>Number of Trans Tires<br>Total Tires per Planter<br>Optional | 9.5L-15, 6 ply<br>4<br>4<br>– | 9.5L-15, 12 ply<br>2 on 12R, 4 on 16R<br>4 on 12R, 8 on 16R<br>Addl 2 Trans & 2 Drive on 12R | 9.5L-15, 12 ply<br>4<br>6<br>– | 31x13.5L-15, 12 ply<br>4<br>8 (6 on 23R)<br>– | 9.5L-15, 6 ply<br>–<br>2 (4 on 12R 30")<br>2 on lift assist models |
| Metering Units | 9000 Series, low-pressure air system with hydraulically driven blower | | | | |
| Blower Drive - Std.<br>- Opt. | Direct drive from tractor remote valve<br>PTO-driven hydraulic pump | | | | Direct drive from tractor remote valve<br>PTO-driven hydraulic pump on ground drive models |
| Hopper Capacities<br>Seed Hopper[2] bu. (L) | 2 or 3 (70.5 or 105.7) | | | 23R, 31R: CFS 90 (31,720, 2@45 (1,586)<br>24R: CFS , 2 or 3 (70.5 or 105.7) | 2 or 3 (70.5 or 105.7) |
| Fertilizer Capability | Liquid or Granular | | Liquid | None | |
| Markers - Std.<br>- Opt. | Vertical rigid arm on 6RN<br>Vertical bifold on 8R<br>Flat fold breakaway for 8R | Vertical bifold on 12R<br>Vertical bifold w/ extension on 16R<br>Flat fold breakaway on 12R<br>Trifold breakaway on 16R | Trifold<br>None | Flat fold breakaway on 23R<br>trifold on 16R, 24R & 31R<br>None | Vertical bifold arm<br>Flat fold breakaway |
| Remote Control Valve Requirements | 2 for tractor hydraulic-driven blower<br>1 with PTO-driven blower pump | 3 for tractor hydraulic-driven blower<br>2 with PTO-driven blower pump | | | 2 for tractor hydraulic-driven blower<br>1 with PTO-driven blower pump |
| Monitor - Std.<br>- Opt. | SM100<br>SM300 | SM400SE<br>C1000 or C3000 | C1000<br>C3000 | | SM100 up to 8R, SM400SE on 12R ground drive, C1000 on 12R hydraulic drive<br>SM300 up to 8R,<br>C3000 on 12R hydraulic drive |
| Sensors - Std.<br>- Opt. | High Rate<br>None | High Rate<br>Seed Smart | | | High Rate<br>Seed Smart on 12R |
| ISOBUS-Ready | No | | Yes | | Yes, when equipped with hydraulic drive option |
| Transport Width ft. (m) | 6RN - 16 1 (4.90)<br>8RN - 20 9 (6.32) | 12RN & 16RN - 15 (4.57) | 16 4 (4.98) | 23R15 & 31R15 - 16 8 (5.08)<br>24R20 - 16 3 (4.95)<br>24R22 - 15 8 (4.78) | 8RN - 20 9 (6.32)<br>12RN - 30 9 (9.37) |

| 9700 VERTICAL-FOLD | 9700 STACKER TOOLBAR | 9812 | 9816 | 9824 | 9831 | 9936 |
|---|---|---|---|---|---|---|
| MOUNTED, VERTICAL-FOLD, SINGLE BAR | MOUNTED, STACK FOLD, SINGLE BAR | NARROW TRANSPORT | NARROW TRANSPORT | NARROW TRANSPORT | NARROW TRANSPORT / NARROW ROW | LARGE FRAME - FLEX |
| 12R30 | 12R30, 12R36, 12R38, 12R40, 16R30 | 12R30 | 16R30 | 24R30 | 31R15/16R30FN | 36R20, 36R22, 36R30 |
| Adjustable ASAE Category II or III | | 2-point | 2-point or drawbar | | Adjustable Tab Hitch | Drawbar Swivel Hitch |
| 7˚ up/ 0˚ down | 5˚ up/ 5˚ down or pin rigid | 21˚ up/ 21˚ down | | | 10˚ up/ 10˚ down | 36R-30″= 42˚ each wing (2 section wing), 36R-20″ & 36R-22″ = 21˚ degrees each wing |
| 7 x 7 (178 x 178) | | | | | | |
| Conventional till<br>No-till<br>Ridge-till | Conventional till<br>No-till | | | | | |
| Ground: chain & sprockets | | | | | ISO CAN-based variable rate hydraulic drive | |
| ISO CAN-based variable-rate hydraulic drive | ISO CAN-based variable-rate hydraulic drive (8792 and 8776) | ISO CAN-based variable-rate hydraulic drive | | | None | |
| Quick-adjust, center-mounted. Interchangeable sprockets provide 32 settings to obtain seed rate increments of less than 4%. | 3 transmissions on 12RN, 1 on 8R Quick-adjust, center-mounted. Interchangeable sprockets provide 32 settings to obtain seed rate increments of less than 4%. | Single Drive Contact Wheel Transmission. 32 settings to obtain seed rate increments of less than 4% | | | Hydraulic controller & motor with infinite population settings | |
| Tractor 3-point hitch | | Wheel module w/hydraulic cylinder | | | | Dual master slave |
| Tractor 3-point + optional rear lift assist | | 6 | 8 | 10 | 6 | 4 on 36R-20″ & 36R-22″<br>8 on 36R-30 |
| 9.5L-15, 6 ply<br>–<br>4<br>2 on lift assist models | 9.5L-15, 6 ply<br>–<br>2 on 8R, 4 on 12R<br>– | 10:00 15 F1 load range D<br>4<br>6<br>– | 295/75R22.5. 16 Ply<br>4<br>8<br>– | 295/75R22.5. 16 Ply<br>4<br>10 | 32/15.5 X 16.5, 14 ply<br>4<br>6<br>– | 36R-20″, 36R-22″, 36R-30″:<br>(2) 30″ x 67″ Tracks<br>36R20″ & 36R-22″ 2 tires per wing: total of 4 per planter.<br>36R-30″ 4 tires per wing: total of 8 per planter<br>Tires: 33x15.5-16.5, 12 ply |
| 9000 Series, low-pressure air system with hydraulically driven blower | | | | | | |
| Direct drive from tractor remote valve<br>PTO-driven hydraulic pump on ground drive models | | | | | | Direct drive from tractor remote valve<br>None |
| 2 (70.5) | | 2 or 3 or 90 CFS | | | 90 (3172), 2 @ 45 (1586) | 150 CFS |
| None | | Liquid | | | None | Liquid |
| Vertical bifold arm<br>None | Two-section, rear fold<br>None | Bifold breakaway<br>None | Trifold breakaway<br>None | | | None<br>36R-20″ & 36R-22″ |
| 2 for tractor hydraulic-driven blower<br>1 with PTO-driven blower pump | 3 for tractor hydraulic-driven blower<br>2 with PTO-driven blower pump | | 4 for tractor hydraulic-driven blower<br>3 with PTO-driven blower pump | | | 4 for tractor hydraulic-driven blower |
| SM400SE on 12R ground drive, C1000 on 12R hydraulic drive<br>C3000 on 12R hydraulic drive | SM400SE on ground drive, C1000 on hydraulic drive<br>C3000 | C1000<br>C3000 | | | | C3000<br>None |
| High Rate<br>Seed Smart | High Rate<br>Seed Smart on 12R | High Rate<br>Seed Smart | | | | |
| Yes, when equipped with hydraulic drive option | | Yes | | | | |
| 12RN - 21 4 (6.50 ) | 12R30 - 20 8 (6.30)<br>12R36 - 20 4 (6.20)<br>12R38 - 25 0 (7.62)<br>12R40 - 25 0 (7.62)<br>16R30 - 26 2 (7.97) | 12 (3.65) | | | 12 11 (3.94) | 9936-20 & 9936-22: 16 2<br>9936-30: 15 |

Note: 1. All models of 9500, except 24R30, use a 3″ x 7″ bar to mount row units to main 7″ x 7″ bar.
2. All planters with split rows feature lock-ups.

Computer illustrations used to display frame configurations may omit some product details including safety-related items such as SMV, reflectors and lighting. Always properly maintain and use all safety-related product features according to operator manual instructions.

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THE 9000 SERIES