Planting Equipment

JOHN DEERE

Plant smarter with planting solutions from John Deere

Make this season the season you plant smarter. John Deere has a broad selection of planting equipment and solutions to help you battle challenges and get seed in the ground faster and with more accuracy.

Consider the ProMAX 40 seed disk and the new SeedStar XP, these two solutions help you get the job done right, the first time. The ProMAX 40 is an economical choice that delivers unbeatable seed spacing and singulation. As for the SeedStar XP it's your eyes on the ground, in the cab.

Like all of our iron and technology, our integrated planting solutions won't just keep you in step with the advancements in productivity and efficiency, they'll put you out front and ahead of the game. The end goal being, healthy, robust yields with less investment and effort from you.

New Features and Improvements

The New SeedStar™ XP monitoring system works with your GreenStar™ 2 and 3 Displays to provide all vital planting information as you plant. SeedStar XP monitors seed in real time as it leaves the seed tube and pinpoints yield-robbing discrepancies like skips and multiples. SeedStar XP also monitors ride dynamics and down pressure, allowing you to make timely adjustments from the cab that reduce your risk and costs.

SeedStar™ XP – Reduce waste and uncertainty with the new SeedStar XP monitoring system. View individual row-unit and overall planter performance including seed spacing, singulation, and ride dynamics from your GS2 and GS3 Displays.

ProMAX 40 – Many growers prefer flat disks because of their ability to accurately singulate corn seeds of inconsistent sizes or shapes. If that describes you, you need the ProMAX 40 Flat Disk. This disk has a proven ability to apply the desired population and deliver unbeaten spacing.

CONTENTS

*Visit **www.JohnDeere.com** for more details, or use the online product configurator to build and price a John Deere Planter.*

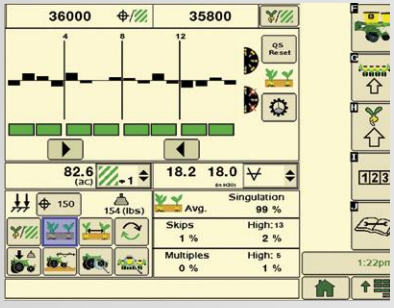
See More with the New SeedStar™ XP

SeedStar XP is your eyes on the ground in the cab. Unlike other systems, you won't have to divide your attention between two monitors. With the new SeedStar XP you can monitor your planter's performance from your GreenStar™ 2 and GreenStar™ 3 Displays leaving you free to focus on saving seed and boosting yields.

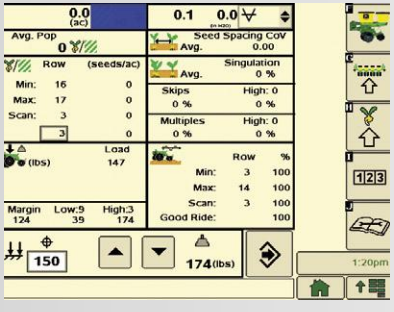
SeedStar XP delivers real-time singulation data from the row-units to your GS2 and GS3 Displays. Quickly view seed-multiple and seed-skip data on your monitor. Receive information about row-units with the highest percentage of seed multiples and skips, then make adjustments as needed to help improve plant emergence.

Because singulation and spacing aren't the only challenges you face in the field, SeedStar XP also monitors ride dynamics and row-unit down force, and transmits the information to your display allowing you to make adjustments from the comfort of your cab.

SeedStar XP is compatible with 1770 NT, 1790, and all DB Series John Deere Planters. Please see your John Deere dealer for specific installation details relating to specific planter models.



Seed Singulation and Spacing – Receive real-time singulation data from the row-units on your GreenStar 2 and GreenStar 3 Displays. Information about row-units with the highest percentage of seed multiples and skips are highlighted allowing you to make adjustments and improve your plant emergence.



Planter Performance – Monitor different planting performance functions including seed singulation and row-unit down force. SeedStar™ XP combines all of the various planting performance elements into one full-color, planter overview screen, giving you an accurate and quick understanding of relative planting functionality at-a-glance.

Down Force – Too much or too little down force can cause problems and lead to poor plant emergence and eventually lower overall yield performance. SeedStar™ XP monitors row-unit down force and measures it by the down-force sensor and sensor nodes then transmits the information to the GS2 and GS3 Displays, allowing you to make adjustments from the cab.

SeedStar™ 2

Variable-rate drive lets you change seeding rates on the go. Pair variable-rate drive with map-based planning, and your planting rates will adjust automatically based on your map.

One monitor in the cab – The advantages to this system go far beyond simplicity and convenience. It's a full-featured, color seed-population monitoring system that feeds information through the GreenStar 2 and GreenStar 3 family of displays. Details are displayed on a single GS2 or GS3 easy-to-read monitor.

Expanded functionality is also part of the SeedStar 2 approach. Tell at-a-glance if half-width disconnect is engaged, if planting populations are at target levels, and if variable-rate drive is activated.

The Computer-Track monitor – If you don't own a GS2 or GS3 Display the Computer-Track monitor provides excellent monitoring with simple operation. It monitors the performance of the planter's row units, while providing information such as average population, total acreage, and ground speed.

Compatibility *– The SeedStar 2 system is standard equipment on select models and optional on all other planters.*

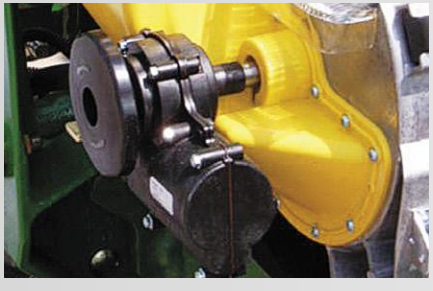
Cut seed costs by cutting corners with RowCommand

These days, no one can afford to waste seed. Which is why more of you are investing in RowCommand Row-Control System, so you can put seed exactly where you want, and nowhere you don't. Over-planting of point rows and on headlands will no longer be a problem.

How does it work? An electric clutch on each row, and a controller in the cab lets you set up 16 different sections. For a 24-row planter, you can pair two rows together for 12 sections, or three rows for 8 sections, or any other combination. A 16-row planter can be configured for individual row control.

Operate the system manually by using the in-cab controls, or opt up to the gold standard in precision planting by pairing RowCommand with SwathControl Pro™. This software allows you to turn planter sections or rows on and off automatically based on GPS.

RowCommand is available for most planters equipped with Pro-Shaft driven row units. Talk to your dealer for more information.



RowCommand controls seed output by using a clutch inside each Pro-Shaft drive gear box. The housing is sealed to provide protection from the elements for long-lasting, trouble-free operation.

This electronic power module is the heart of the RowCommand system. Low-voltage CAN messaging signals power to the desired Pro-Shaft drive. In the event of a clutch failure the meter keeps planting.

Yes, you can retrofit your current planter with RowCommand! A field conversion bundle is available for most Model Year 2003 planters and newer that are equipped with Pro-Shaft drives. You'll also need a planter mainframe harness, SeedStar 2 or SeedStar XP controller (wedgebox), and an additional CAN harness to complete the conversion.

Get more return on your seed investment with Swath Control Pro for Planters

Helps save seed – that's what producers are saying about Swath Control Pro. This GreenStar™ system provides automatic section control for both air carts and planters and turns individual sections on and off, all with GPS technology. Reduce overlap in broad-acre and row-crop applications. You'll also realize potential yield gains, reduce operator fatigue, and improve machine efficiency

With the new SeedStar™ XP and SeedStar™ 2 controllers, Swath Control Pro and RowCommand are completely integrated. You won't need a rate controller or additional harnessing. It's a seamless, simple system.

Integration pays off in another way, too: A single Swath Control Pro activation can be leveraged across your sprayer, nutrient applicator, and planter or air seeder.

Get more with GreenStar™ Technology

John Deere GreenStar products are designed to help you make the most of your equipment investment.

To use most GreenStar 2 and GreenStar 3 products, you need only two common components. The StarFire™ receiver and a GS2 or GS3 Display work in tandem to create a fully integrated system that can be customized for your operation. These same components can be moved easily from a tractor to a sprayer to a combine.

The other key ingredient for the system is a GPS signal. John Deere offers four signal options: WAAS, a free differential correction signal; SF1, a free signal providing +/- 10-inch pass-to-pass accuracy; SF2, the most accurate satellite-based correction signal with +/- 4-inch accuracy; and RTK, a ground-based reference station that provides 1-inch, repeatable accuracy. Your John Deere dealer has all the details about each signal and the latest GreenStar* applications.

*Activation/subscription required. Some additional accessories components may be required to operate the GreenStar equipment. See dealer for details.

GreenStar™ guidance *– Whether it's you in the cab or a less-skilled operator, a GreenStar 2 or GreenStar 3 guidance system delivers a quick payback. Choose the type of manual or hands-free guidance – and the level of accuracy you need, from 10 inches pass-to-pass, to one-inch accuracy with the RTK system.*

Let the equipment do the work with AutoTrac Guidance:

AutoTrac™
A perennial customer pleaser, AutoTrac's automatic guidance helps make each pass ultra-efficient. All you do is manually set the first pass, and then AutoTrac takes control. You still make headland turns and steer around obstacles, but with the push of a button, AutoTrac resumes control. Customize based on you needs with three accuracy levels – AutoTrac SF1, AutoTrac SF2, and AutoTrac RTK.

iTEC Pro™ (intelligent Total Equipment Control)
This industry-exclusive Pro Module automates tractor and implement functions on end-row turns. As you approach your headland, iTEC Pro works with AutoTrac guidance

through your GS2 or GS3 Display, to automatically slow the tractor speed... raise the implement, turn the tractor... and reengage the implement, all automatically. iTEC Pro is a pro module for the GreenStar 2 and GreenStar 3 Systems.

Committed to keeping you Ready-to-Plant.

At John Deere, our goal is always to get you "Ready To Plant." That's why we spend so much time refining our planters and their inner workings – including the seed meters. For example, we made factory-installed double eliminators standard on Pro-Series row units. It's a small change, but one that helps ensure you always get the best seed spacing possible when using the popular ProMAX 40 Flat Seed Disk.

It's these simple yet important updates that keep the John Deere VacuMeter™ system at the forefront for accuracy, efficiency, and reliability. Its design ensures that every seed is consistently released above the seed tube for improved seed drop and unbeatable spacing.

We're committed to keeping you "ready to plant". Go to www.ReadyToPlant.com or talk to your John Deere dealer for assistance.

The John Deere VacuMeter seed-metering system on MaxEmerge™ and Pro-Series row units uses vacuum suction to gently pull and hold individually selected seeds to the seed holes on a flat disk, or cells on a cell disk, for unbeatable population control and accurate spacing. Simplicity of design makes the VacuMeter consistently accurate and easy to maintain. The interchangeable seed disk is the only moving part. And you can switch crops or seed size in less than a minute per row. The VacuMeter is standard equipment on all John Deere planters.

ProMAX 40 Flat Disk

Accurately singulate corn seeds of different sizes or shapes with the John Deere ProMAX 40 Flat Disk. We designed the disk as a component to the entire John Deere VacuMeter system ... which means you don't need to buy a new hopper just to make it work! The design of the ProMAX 40 Flat Disk, as well as the positioning of the disk within the meter, allow seed to be released from the optimum position above the seed tube. The Flush-Face seed tube allows seed to drop uninterrupted through the tube, so every seed is properly released into the tube, and every seed clears the tube with even spacing.

The disk has 40 holes, so it requires fewer revolutions per minute than a "raised" 30-hole flat disk to apply the desired population. There are two benefits of fewer revolutions. First, there's ample time for seed to be drawn to each hole, so there's less need to agitate the seed. And with less agitation, there's a reduced chance that seed will become damaged within the meter.

When planting seeds at the opposite ends of the size spectrum with the ProMAX 40 Flat Disk, you can use the larger or smaller setting on the double eliminator to adjust the coverage of the hole. Best of all, these settings are uniform on every row unit, so you get unbeatable accuracy across your planter. No other flat-disk planting solution offers this level of convenience and flexibility.

The factory-installed double eliminator on Pro-Series row units has a center detent position that accurately singulates more than 90 percent of today's seed sizes and shapes. When planting seeds at the opposite ends of the size spectrum, you can change the setting on the double eliminator to adjust the coverage of the seed-disk hole. These settings are uniform on every row unit for unbeatable accuracy across your planter. No other meter offers this level of repeatability, convenience, and versatility!

Seed Tube Options

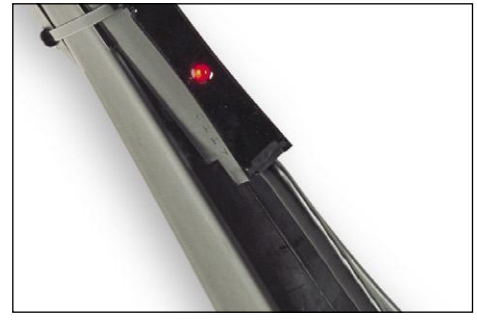
The Flush-Face seed tube (standard equipment) allows seed to drop uninterrupted through the tube for more even spacing. It's made of a clear polycarbonate material, so there's no need for a hole for the seed sensor – or the resulting ramp above the hole. That means there's absolutely no chance that seed will bounce against the sensor. Seed stays on track from the time it enters the tube to the exit point, resulting in more consistent spacing.

Large curved seed tubes are used to plant edible beans and peanuts.

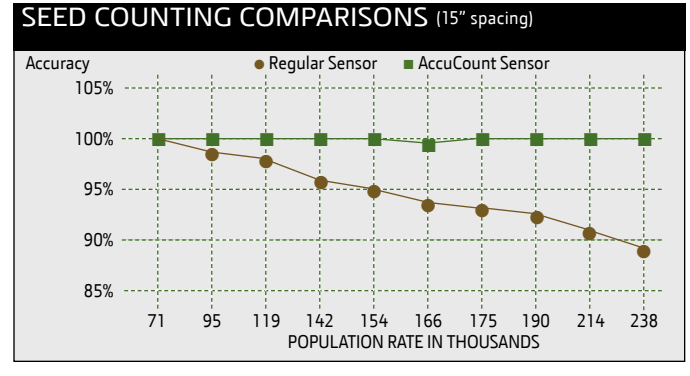
Straight seed tubes work for the same crops as regular tubes, but deposit seed closer to the bottom of the opener. This is helpful in light, sandy soil or with very small, light seeds such as sorghum.

Narrow, straight seed tubes are specifically for sorghum and small cotton seeds.

AccuCount Seed Sensor



Want to know exactly how many seeds you're planting? Then equip your planter with the AccuCount seed sensor. This technology counts every seed, which makes it ideal for high-population crops. The chart below shows the sensor's accuracy, even at populations above 200,000. An external LED display lets you know the sensor is working. (For use with regular curved seed tubes only.)



Radial Bean Meter

This mechanical bean meter does for soybean planting what the finger-pickup meter did for corn planting. Seed pools in the meter chamber until openings occur in the cell canals. Seed is routed to the outer edge of the bowl into individual cells. Here, seed is held until it rotates to the drop-off area and gently falls through the seed tube into the furrow.

Finger-Pickup Meter

Finger-pickup plateless seed meters are available for MaxEmerge™XP row units. Changing between finger-pickup meters and radial-bean meters requires only a few minutes. A popular choice on 1750 Drawn Planters, this meter provides consistent seed spacing and population control when planting corn. It also has good performance in metering confectionary (large) sunflower seeds.

John Deere XP row units: the foundation of accurate placement

Loaded with features that made its predecessors legends, the MaxEmerge™XP and Pro-SeriesXP™ row units take rugged performance and long life to the next level. Extra productivity, extra precision, and extra profitability are just a few of the "extras" the XP row units bring to your operation.

Although designed very similarly, there are differences between the MaxEmergeXP and Pro-SeriesXP row units. The most obvious is the mini hopper on the Pro-Series row unit. This approach complements the Central Commodity System, with which only the Pro-Series row units are compatible.

Both row units are designed to deliver tremendous performance in all field conditions. In fact, the ductile iron case shank on all XP units affords greater strength and reliability – a distinct advantage in rocky fields and tough no-till.

Talk to your John Deere dealer to learn more about the benefits that MaxEmergeXP and Pro-SeriesXP row units can bring to your fields.

A one-piece, ductile-iron shank is the foundation of the MaxEmergeXP row unit. Ductile-iron castings deflect without bending, withstand impacts without cracking, and can be machined to close tolerances for precise assembly — resulting in a row unit more resistant to bending and twisting under the impacts and loads associated with the toughest no-till and contour planting conditions.

T-handle design makes adjusting the MaxEmergeXP gauge wheels a snap – simply pull, lift, and lower this single handle to adjust gauge-wheel depth.

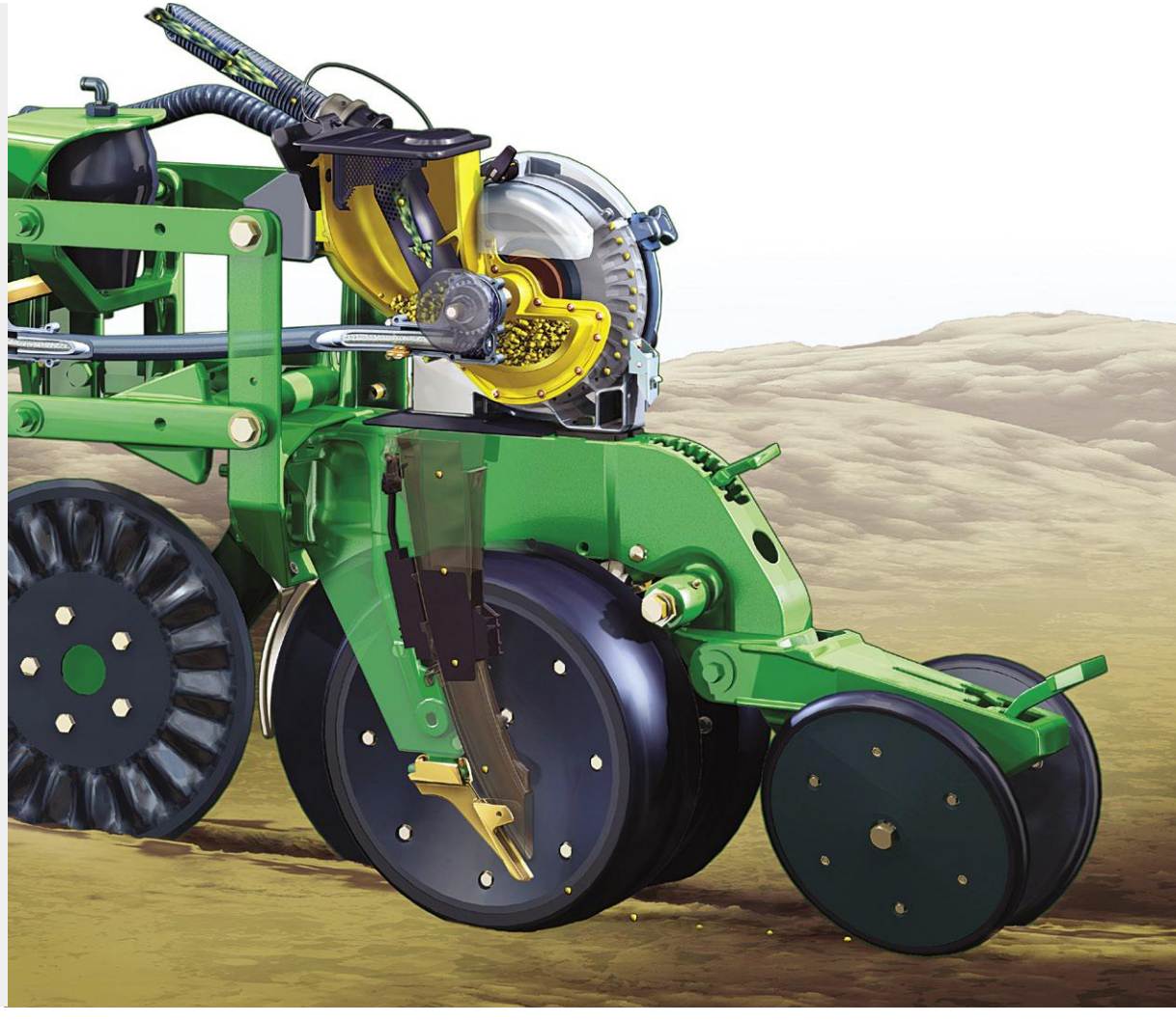
Positive-locking seed-tube guard protects the tube and helps maintain a more-precise seed drop for more-consistent seed spacing. This enhanced design eliminates the troublesome roll-pin attachment.

Pro-Shaft™ Drive option for all planters with a VacuMeter (not compatible with dry chemical system. Durable, fully-enclosed, lubed-for-life and maintenance-free, the Pro-Shaft drive eliminates drive chains, residue shields, and the hassles that go with them.

Gauge wheels feature a bolt-through design for improved retention and easier maintenance. This design also helps to ensure proper spacing of the gauge wheels to the disk-opener blades, while a rugged bearing design provides more load capacity.

A pneumatic downforce system lets you match down-pressure to your conditions. It uses a single air-bag design and gives you infinitely variable down-pressure – up to 400 pounds per row.

Bring on the corn stubble! The Pro-SeriesXP™ row unit utilizes the Pro-Shaft drive, which eliminates the chain drives and the residue shields that go with them.



Tru-Vee disk openers – the same found on MaxEmerge™XP row units – create a uniform V-shaped furrow in all soil types and residue levels. The shape of the trench puts seed in positive contact with firm soil for improved germination.

Angled closing wheels firm soil around seed – not over it – for excellent seed-to-soil contact. Rubber tires are standard; cast closing wheels are optional.

Central Commodity System… a real time-saver

Start. Stop. Refill. Restart. Stop. Refill. Each time you stop, minutes are wasted. (By our calculations, you can save a whopping 13 hours when compared to a 31Row15 planter with 1.9-bushel hoppers across 1,000 acres each of corn and beans.) The bottom line is that refilling consumes valuable hours during an already-tight planting window.

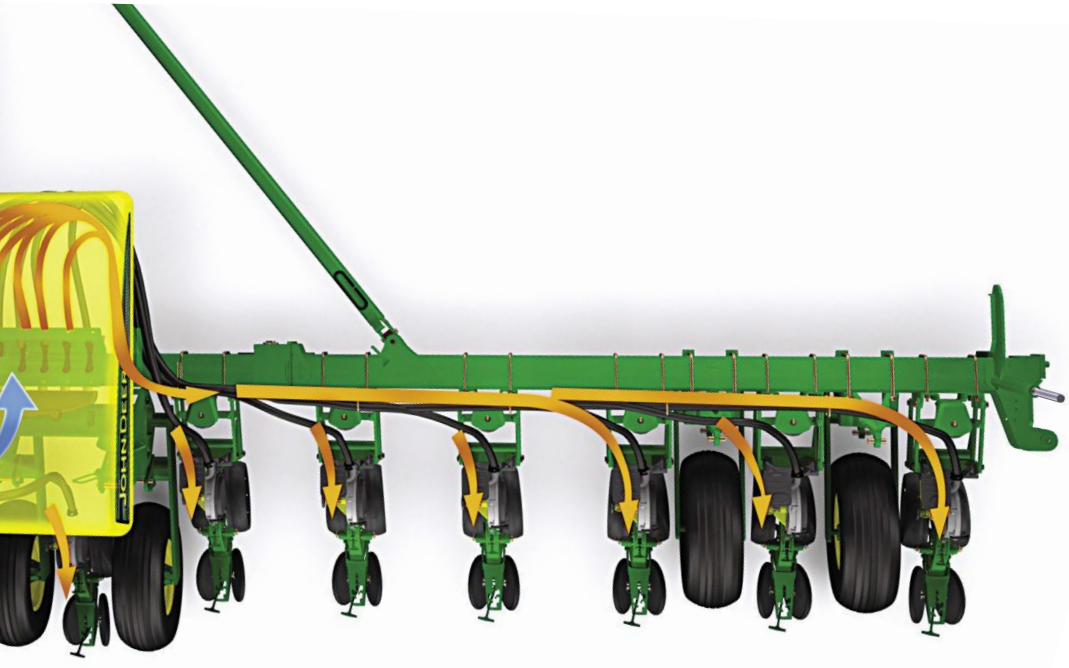
That's why John Deere created the Central Commodity System (CCS) for seed delivery. It's a bulk-fill approach (either 70- or 100-bushel capacity) that's made to keep you planting, not refilling. And because it uses air to carry seed, it's as reliable as it is gentle on seed.

Here's how it works: pressurized air carries seed through a manifold at the bottom of the bulk-fill tank to the row unit, where it's deposited in a mini hopper. From there, seed enters the meter – vacuum is standard, plateless is available – and is then placed precisely in the furrow created by the Tru-Vee opening and closing system.

Sound simple? It is. The CCS gives you a planter that helps you get through fields faster at arguably the most critical time of the year. Visit your John Deere dealer for a close-up look at the CCS on the 1720 CCS Stack-fold Planter, as well as on the 1790 Front-fold Planter, the 1770NT CCS Planter, Deere/Orthman and all DB planter models.

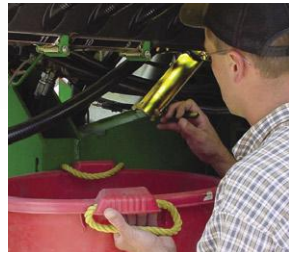
Air flow from the hydraulically driven fan performs two tasks: 1) it pressurizes the central seed tanks, and 2) it delivers seed to the mini hopper.

The system works like this: Air flow enters the seed tanks through a nozzle in the manifold, which pressurizes the tank. The air then picks up seed and moves out the other end of the nozzle into seed-delivery hoses. These hoses route the seed toward the hopper. Note how little seed is in the delivery tubes. One advantage to the CCS is the small amount of seed it takes to prime the system.



The hopper fills with seed until the delivery hose is covered. Once the opening is restricted, seed flow through the hose stops. Air flowing to the row unit travels into the hopper and out through a vent. As the seed is picked up by the meter and planted, the seed pool shrinks until the end of the delivery house is uncovered. At that point, the air flow and seed delivery resume, and the seed pool in the hopper is replenished.

Whether you're using bags or an auger, the CCS tanks are positioned on the frame to make filling a comfortable task. Lids are approximately waist-height, so they're convenient to reach.

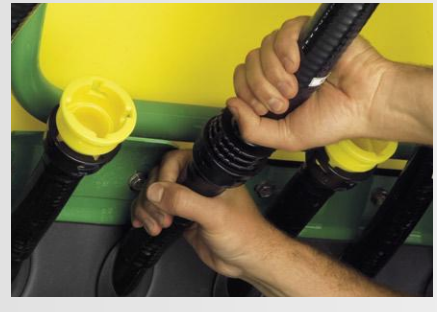


To empty tanks of seed, just open the clean-out doors at the bottom of the tanks. Their smooth, tapered design ensures complete clean-out.

Refuge Plus: Refuge Management and Seed Corn Production

To preserve the benefits of Bt corn technology, implementing an Insect Resistance Management (IRM) plan is essential. Experts agree, and US Government regulations require Bt corn IRM plans to include the planting of a non-Bt refuge (a block or strip of non-Bt corn) planted close to or within your Bt corn acres.

The Refuge Plus option adds a third, 25-bushel tank ahead of the two standard CCS seed tanks – that's up to 125 bushels! (95 bushels on 12-row 1770NTCCS Refuge Plus and 30-foot 1790 planter with the CCS Refuge Plus option). Available on select CCS planters.



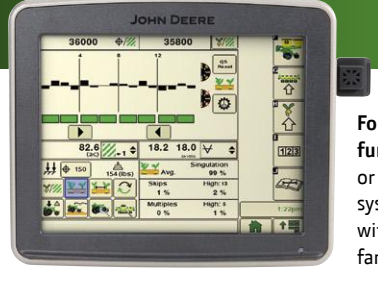
Choice of seed hose routing. Whether you're planting Bt and non-Bt corn hybrids, or male and female inbred seed for seed corn production, the Refuge Plus option allows you to easily customize your planting patterns.

The John Deere split-row sensation

Since its introduction, the 1790 Front-Fold Planter has become the split-row planter of choice for thousands of producers across the Corn Belt.

This unique planter was designed for the particular needs of the corn/soybean grower: bulk fill, narrow transport, ample residue flow, easy serviceability, and more frame flexibility for planting along terraces and on contours. The 1790 has answered the needs of these many challenges. These features, and many others, set an unbelievably high standard for performance and reliability.

From no-till corn, to narrow-row soybeans, and even double crop soybeans into standing wheat stubble, the 1790 has proven itself in a wide range of planting conditions. Plus, the knowledgeable staff at your John Deere dealership are ready and able to explain the many advancements found on this phenomenal planter, as well as show you how it works.



For the widest range of monitor functions, opt for the SeedStar 2 or SeedStar XP monitoring system, (shown) which works with the entire GS2 and GS3 family of displays.

Folding down to 12 ft. for transport (24-row 1790 folds to 12 ft., 11 in.), the 1790 takes a lot of worry out of road work, while a full 20 inches of underframe clearance when folded gives plenty of space to make it over railroad grades and road crowns during transport.

The unique design of the 1790 eliminates negative hitch weight. The weight of the seed is positioned in front of the mainframe, not behind so weight transfers onto the tractor when the planter is raised. Plus, all tires get the same amount of pressure to the ground, thanks to improved hydraulics.

Fifteen-inch or thirty-inch rows? Switching spacing by lowering the rear rank of row units is accomplished in a flash. Just press the switch on the frame-control box, hit the SCV lever, and down the rank goes. (Five center rows on rear rank are lowered manually.)

Up to 47 inches of row-unit stagger when both front and rear ranks are down provides impressive soil and residue flow. That increased space gives plenty of accessibility to row units for completing routine maintenance.

Get your corn off and growing with liquid starter fertilizer. A 420 US gallon mounted tank is available for the 30-foot model. For 40-foot models, liquid fertilizer options include pulling up to a 2,000 US gallon nurse tank or mounting saddle tanks on the tractor.

The single-disk fertilizer opener works well for most no-till, double-crop, and reduced-till fields, plus firm-soil conventional seedbeds. A 13-inch rubber wheel gauges depth and minimizes soil disruption. A cast spout keeps soil from flowing into the furrow before fertilizer is delivered.

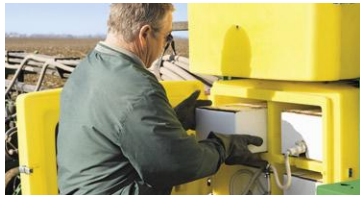
One planter, two crops, two row spacings

We recognize the value of time. Come April and May when corn and soybeans have to get in, you need a planter you can rely on to get you in the field sooner and seed in the ground with accuracy. Our engineers continue to design productive planters that make the most of every minute.

The 1790 delivers more productivity than just about any other. It's not only because of the Central Commodity System and the Central Insecticide System, though they do dramatically reduce the number of refills and the time they take.

It also has to do with faster planter speeds, thanks largely to the VacuMeter system, improved reliability because of features like the Pro-Shaft drive, and super-fast clean-out when it's time to switch crops. Add up all these time-savers, and that's the kind of productivity you can take to the bank!

The Pro-Shaft Drive – proven reliability. No longer will you have to fix chain drives because they were knocked off the sprockets by a corn stalk. There's a lot less time and money involved in replacement, too.



The Central Insecticide System (CIS) combines the performance of liquid insecticide with the convenience of the Central Commodity System. Simply load the cabinet with boxes of liquid insecticide, fill the frame-mounted tanks with water, and prime the system. The entire system is completely closed to ensure your safety. Best of all, you can plant for hours without stopping for an insecticide refill. The CIS is available on 30- and 40-foot 1790s on 30-inch spacing with Pro-Series row units and the Central Commodity System.

Get twice the planting options

The 1780 Narrow-Row Planter allows you to easily change row widths to accommodate different crops. Simply lock up every other row unit and plant your corn in 30-inch rows. When it's time to plant soybeans, just lower the splitter units to plant at half the row spacing of your corn.

And one person is all it takes to raise and lower the splitter units. Use the handy tool stored inside the frame, and switch row spacings in just minutes.

No matter which crop is in the hoppers, you'll benefit from a highly accurate VacuMeter seed-metering system, reliable tire-contact drive and efficient dry and liquid fertilizer capability. And you plant – and refill – with all the advantages of in-line row units.

To learn more about the versatile 1780 Planter, see your John Deere dealer for all the details.

Why stop to refill when you can keep on planting? Choose optional 3-bushel hoppers* to double your seed capacity and cut refill stops in half.

**Not compatible with granular-chemical hoppers.*

In minutes, one person can raise and lower split-row units with the help of a tool that's conveniently stored inside the frame.

1780 Narrow-Row Planter Configurations		
Standard Rows: 30 in. (76 cm)	6 rows	8 rows
Splitter Rows: 15 in. (38 cm)	11 rows	15 rows

With the one of the industry's widest turf tire and highest down-force, this centrally located drive system provides consistent metering. A separate tire-contact drive operates the piston pump to deliver steady, accurate flow to each opener. For added reliability, drive chains are out of the way of soil and residue.

The 1770NT planter family: big-acre productivity in an easy transport package.

The 1770NT Planters are among the most productive and adaptable planters on the market. These planters get you there, get the job done, and then get you to the next field.

On the road, the 1770NT planters transport at a narrow 12 feet. Plus, the hydraulic system provides true "fold and go" operation from the cab. And with 22-inches of under-unit clearance, the 1770NT planters won't leave you hanging when pulling in and out of your fields.

For even more in-field productivity, all three planters can be spec'd with the time-saving Central Commodity System (CCS) option. Carrying up to 100 bushels (70 bushels on 12Row30), our exclusive CCS configuration means you spend less time filling and more time planting.

To help you fight corn rootworms and other early-season pests safely and effectively, add the Central Insecticide System (CIS) to your new 1770NT. CIS combines the performance of liquid insecticide with the convenience of the CCS.

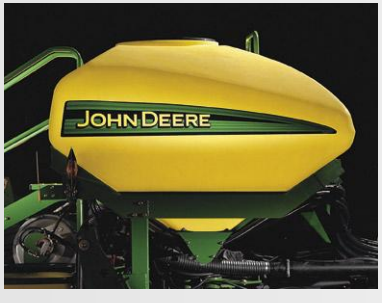
Get from field to field with some transport peace of mind. Even with the CCS option, the 1770NT planters transport at a compact 12-ft. wide, so crossing bridges poses no problems. In the field, the location of the CCS tanks on the frame has been optimized for excellent weight distribution.

Look at all this underframe clearance! A full 22 inches from the openers to the ground gives you plenty of room to clear railroad tracks, potholes, and other obstructions that can chew up ground-engaging components.

1770NT Planter Family

	12 Row	16 Row	24 Row
MaxEmergeXP / Pro-SeriesXP	X	X	X
CCS 70 bu.	X		
CCS 100 bu.		X	X
CIS (Pro-Series only)	X	X	X
Liquid Fertilizer*	450 US gal.	600 US gal.	600 US gal.
Liquid Insecticide**	225 US gal.	300 US gal.	450 US gal.
Granular Insecticide†	X	X	X

* Liquid fertilizer tanks available on non-CCS models only.
** Liquid insecticide tanks available on planters without liquid fertilizer tanks.
† Granular insecticide hoppers available only with MaxEmergeXP row units.



Two bulk-fill tanks are standard on every CCS planter for maximum seed-carrying capacity. The 16- and 24-row 1770NT planters boast two 50-bushel tanks, for a 100-bushel capacity, while the 12-row version uses two 35-bushel tanks for a combined tank capacity of 70 bushels.

The best-selling 1770NT: It's productivity explains it's popularity

The 1770NT is our most popular planter for one simple reason: its field performance. And one thing that makes this planter so effective in the field is its flex. In fact, the 1770NT has more wing flex than any other John Deere planter. The three-section design allows both wings to flex 21 degrees both up and down for consistent depth control on contours and terraces.

Other performance-enhancing features include a telescoping hitch that enables tighter turns and a hydraulic system that ensures level operation. And that's in addition to the proven benefits of our row units (MaxEmergeXP or the Pro-SeriesXP row units, your choose).

See your dealer to learn more about the entire lineup of 1770NT planters.

A choice of row units on the 1770NT enables you to build a planter that exactly meets your needs. Choose MaxEmergeXP row units if you use dry chemicals; Pro-Series XP row units to add the convenience and reliability of ProShaft drives.

A telescoping hitch allows the 1770NT to be coupled closer to the tractor for added maneuverability. Marker arms provide peace of mind. Tri-fold markers come standard on 12- and 16-row models; fold-over markers are standard on 24-row 1770NTs.

Auxiliary hydraulic couplers. An optional remote hydraulic outlet on the rear of the CCS platform provides a quick and simple hookup for your bulk-seed fill auger.

Optional rear hitch features a 2,000 U.S. gallon towing capacity, while the optional remote hydraulic outlet provides a quick, convenient, and simple hookup for your bulk-seed fill auger.

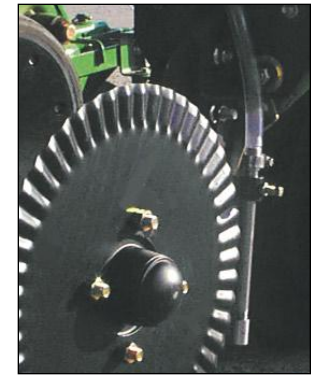
Fertilizer options help you make the most of your seed investment

Give your seed every opportunity to reach its yield potential. Liquid at-plant fertilizer is an easy way to do just that. We offer several options for your 1770NT to help you get efficient, effective results.

Large liquid fertilizer tanks (600 US gallons on 16-row and 24-row, 450 US gallons on 12-row) boost productivity. One tank means fluid doesn't transfer when planting slopes. For even more capacity, add an optional rear trailer hitch to tow a fertilizer nurse tank.

This flow divider diverts equal amounts of fertilizer to each opener, eliminating potential "hot spots" within a field. A mesh strainer that's in-line to the bottom of the piston pump protects the fertilizer system from contamination.

The single-disk fertilizer opener works well for most no-till, double-crop, and reduced-till fields, plus firm-soil conventional seedbeds. A 13-inch rubber wheel gauges depth and minimizes soil disruption.



Apply at-plant nutrients just where they're needed with unit-mounted single-disk liquid-fertilizer injection system openers. A single, 50-wave coulter cuts through tough seedbeds, especially when paired with a pneumatic down-force system.

Versatility Productivity Reliability

To get the best crop, seed must be planted at the right time, at the right depth, with the right spacing and with the right fertilizer program. That's why we made the 1770 Planters more flexible – to match the way you farm.

Metering systems provide precision spacing in any crop. For impressive single-seed precision, the VacuMeter comes standard. Or, choose the finger-pickup meter for your corn and the radial bean meter for planting soybeans.

Granular fertilizer gives seed a boost – apply granular fertilizer from frame-mounted hoppers.

The drive system is positively accurate. The 12Row30 features extra-wide turf tires to drive seed metering and fertilizer application. Its 560 pounds of down-force are the industry's best.

The 1770 clears narrow field lanes and gravel roads at approximately 15 feet wide. Tri-fold markers keep a low profile in the field and on the road – transport heights are all under 13 feet. And for sturdy lifting and transport stability, wheel units have cast supports, thicker H-frame members, and a larger tire.

Each fertilizer hopper holds about 550 pounds of dry fertilizer. The entire hopper pivots for easy dumping. Drives and transmissions are included. Choose from 25 transmission rates, depending on the auger chosen (low-, regular-, or high-rate).

Here's a wing-fold that flexes, fertilizes, and fits your budget

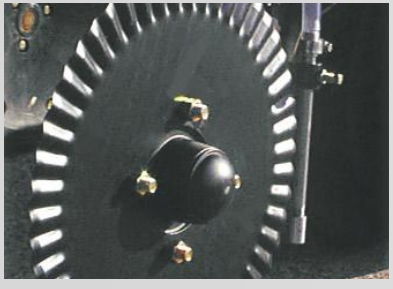
Time is your most valuable commodity, especially in the spring. But it also can be your enemy. That's why John Deere offers an affordable wing-fold planter that makes the most of your narrow planting window: the 1760 Wing-Fold Planter.

Apply liquid fertilizer while you plant. With frame-mounted liquid fertilizer tanks, the 1760 lets you do the work of two passes in one. The rugged 7x7-inch frame easily shoulders the maximum load of 450 US gallons without compromising speed or accuracy.

Flex-wing design delivers accurate depth in undulating fields. Massive hinges allow the wings to flex 20 degrees up and 20 degrees down, so the 1760 accurately plants over hills and through swales.

The combination of a wing-fold design, flexible frame, and on-board liquid fertilizer make the 1760 Planter one productive machine for all your acres.

The 1760's optional on-board liquid fertilizer tanks help boost your springtime efficiency. These big-capacity tanks have a low-profile design that allows clear visibility.



The unit-mounted single-disk liquid-fertilizer injection system opener (left) uses a 50-wave coulter positioned 2 inches to the side of the row to penetrate tough seedbeds. Fertilizer is injected into the soil directly behind the coulter. Unit-mounted double-disk fertilizer openers (right) are ideal for conventional, reduced-till or light no-till fields. Nutrients can be placed at seed depth or one inch below, and 13/4, 2, or 21/4 inches off the row.

Getting the 1760 Planter ready for the field is easy with hydraulic fold. Simply unlatch the wings, unfold, and lower; then lock the wings and remove the lockout turnbuckle so the frame can flex.

A high-performance planter that easily glides across narrow bridges and down skinny country lanes

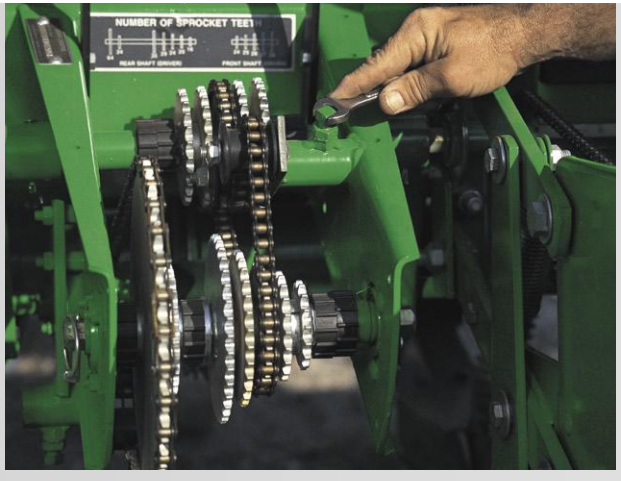
It's the 1760NT Planter, available in 6- and 8-row models. With its unique fold, this planter shrinks to just 12 feet wide for transport. This compact size fits easily within the width of the tractor's duals, which means if the tractor can squeeze through a gate, so can the 1760NT.

Once you get into a field, the 1760NT is able to plant into whatever conditions you find there. This planter's heavy-duty frame is built to handle everything from conventional-till to true no-till, which makes the 1760NT as versatile as it is portable.

Of course you'll get the planting results you expect from a 1760 Planter. The NT sports all the features of earlier models, and can be equipped with all the optional attachments for unbeatable planting performance. See the specs on page 42, and then talk to your dealer for more information.

As much as 300 US gallons of fertilizer capacity on the 1760NT means you can work with fewer stops. You can vary application rates from 1.6 to 37.6 gallons per acre, making it easy to adjust from field to field.

Our heaviest no-till fertilizer opener is available on the 1760NT. The frame-mounted single-disk fertilizer opener system slices through residue to place nutrients where they're needed – up to 2.5 inches off the row and 2- to 4-inches deep. Unit-mounted double-disk openers and injection single-disk openers are available.



The 1750 Drawn Planter has a simple seed transmission that makes rate changes quick and easy. Choose from 50 different planting rates.

Each fertilizer hopper holds about 550 pounds of dry fertilizer. The entire hopper pivots for easy dumping. Drives and transmissions are included. Choose from 25 transmission rates, depending on the auger chosen.

Compact size, incomparable performance

Conventional to conservation: Choose the planter that fits your residue levels. Whatever your farming practice, there's a 1750 Drawn Planter to meet your planting needs.

For planting into tough corn trash and rough seedbeds, the sturdy 7x7-inch mainframe of the 1750 stands up to the test.

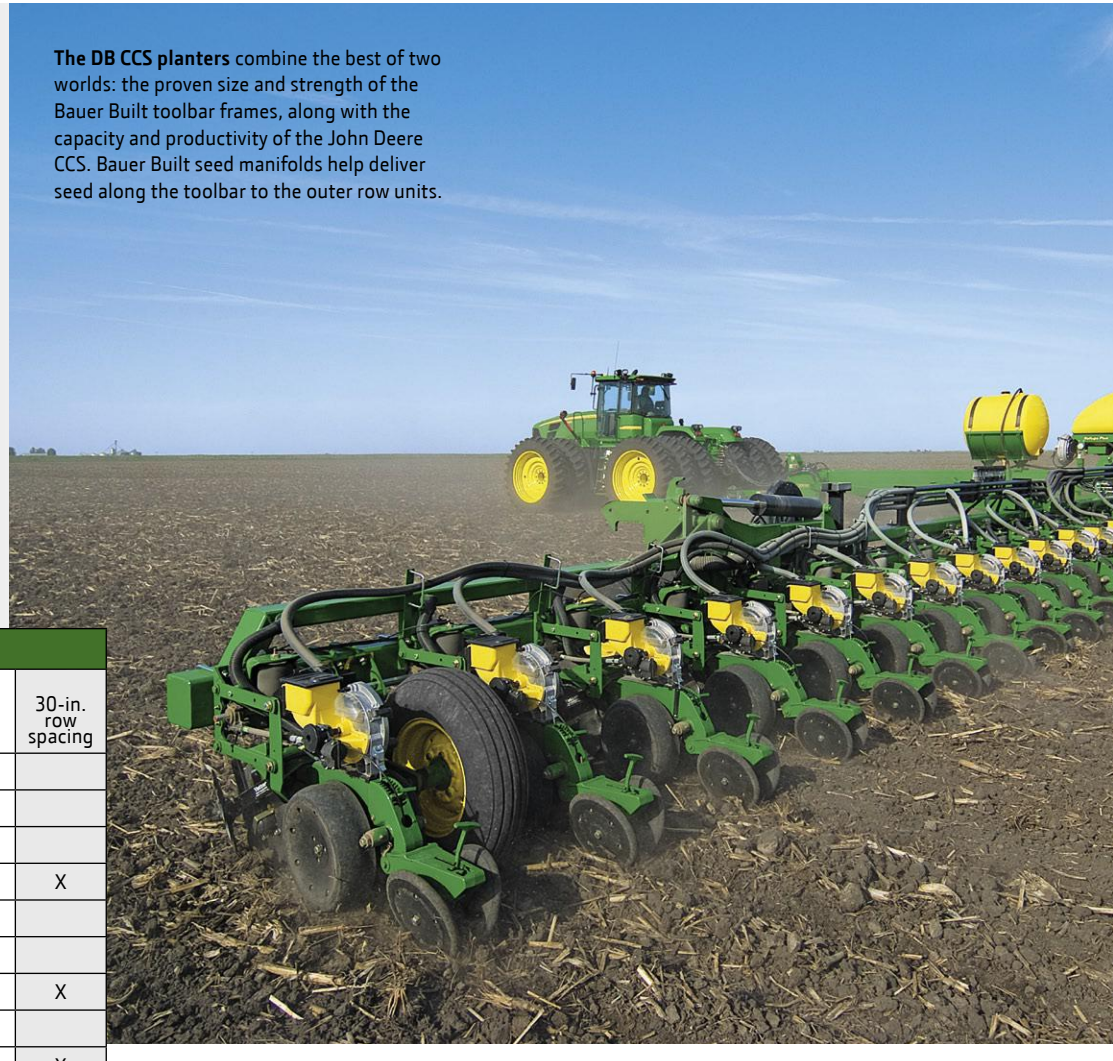
Outfit this model with the attachments you need to work in residue, as well as hard ground, sticky soil, and rocky fields. Consider adding walking gauge wheels for more consistent depth control, or coulter blades for tillage action in front of the openers.

Ultra-wide, ultra-productive

If you're looking for a productive, all-purpose planter that can help you make the most of your narrow planting window, ask your dealer about the incredible DB Series Planters from John Deere and Bauer Built Manufacturing. These acre-hungry machines will help you finish faster.

The DB Planters are available in ten configurations, with widths from 44 to 120 feet, for 20-inch, 22-inch and 30-inch row markets. There's also a split-row model. All have the features and options you need for true planting efficiency and versatility. Our John Deere row-units and vacuum seed meters lead the industry in accuracy, adjustability, and planting speed.

A range of seed carrying capacities increases your flexibility and reduces refill stops. Plus you can add the new Central Insecticide System and shave hours off your refilling time. And reliability? Don't worry – these planters and their frames are among the toughest around, with plenty of 7x7 steel framing to tie everything together.



The DB CCS planters combine the best of two worlds: the proven size and strength of the Bauer Built toolbar frames, along with the capacity and productivity of the John Deere CCS. Bauer Built seed manifolds help deliver seed along the toolbar to the outer row units.

DB Planter Models								
Model	MaxEmergeXP	Pro-SeriesXP	CCS*	CIS**	15-in. row spacing	20-in. row spacing	22-in. row spacing	30-in. row spacing
44 ft (24 row)	X	X	X				X	
58 ft (32 row)	X	X	X				X	
60 ft (36 row)	X	X	X			X		
60 ft (47 Split-row)		X	X	X	X			X
66 ft (36 row)	X	X	X				X	
80 ft (48 row)	X	X	X			X		
80 ft (32 row)	X	X	X	X				X
88 ft (36 row)		X	X				X	
90 ft (36 row)		X	X	X				X
120 ft (48 row)		X	X					X

*CCS available with Pro-Series row units only.

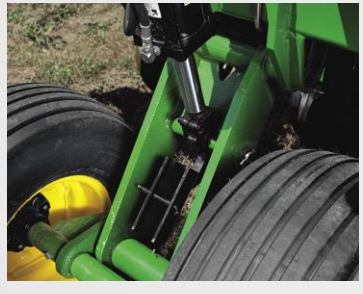
**Central Insecticide System available with CCS and Pro-Series row units only.

Cover even more acres per day with the bulk seed handling capabilities of the CCS. Carrying up to 100 bushels in two on-board bulk seed tanks (125 bushels in three thanks when equipped with the Refuge Plus option), filling these acre-eating DB planters can now be done at one centralized location on the planter.

The Central Insecticide System is a revolutionary closed-handling system that's designed to give you both effective corn rootworm control and exceptional planter productivity.

All DB Series planters have superior flexibility for even-depth planting when working rolling ground. Each wing flexes 15 degrees up and down relative to the planter's center section.

Can 44- to 120-foot planters really fold to a manageable transport size? You bet! In fact, the front-fold design of the DB Series Planters keeps transport widths between 15- and 17.6-feet. Lengths vary, but all are less than 62 feet. Ample underframe clearance 22 to 26 inches during transport makes it easy to clear obstacles.



Large walking wing wheels keep the DB Planters floating on top of the ground, while wheel spacing improves residue flow. Wing cylinders have locking brackets for safety.

An easy-to-use control box lets you fold and unfold the DB Planter from the tractor cab.

Split-row and narrow-row DB planters: adaptable field performers

Versatility and amazing productivity. That's what you'll get from the new split-row DB60 47Row15 planter. It tackles 30-inch corn and 15-inch soybeans with a 100-percent get-it-done attitude.

Given the narrow spacing this tool is capable of, it was important to develop a design with excellent residue flow. We accomplished this by equipping alternating row units – the splitter rows – with long parallel arms. This off-sets row units by 7 inches in the rear to keep root balls and corn stubble from causing problems.

In addition to a stellar springtime performance, this tool also can pay dividends in the fall: Research conducted in Iowa since 2004 continues to show a yield increase of up to 4 bushels per acre when planting beans in narrow rows (less than 30 inches). To take advantage of the many benefits offered by the new DB60, talk to your John Deere dealer.

The DB60 47Row15 comes standard with the Central Commodity System and ProSeriesXP row units for improved durability and productivity.

Locking up rows on the new DB60 is a simple affair – which means you won't lose precious time tinkering with planter conversion if you need to switch quickly from corn to beans.

Plant corn and beans on 20-inch rows? John Deere has two DB models built to match your needs: the DB60, with 36 rows; and the DB80, with 48 rows. Like all DB models, these machines will knock out your acreage in no time!

If sugar beets and corn are your staple crops, then ask your John Deere dealer about the popular DB44. The 24Row22 configuration plants beets and corn with equal ease, making this single planter all you need. Want to cover more ground on every pass? We offer 58-, 66- and 88-foot models with 22-inch spacing.

Visit with your John Deere dealer to learn about the various configurations, as well as attachments, available for DB planters.

Strong, low-profile tri-fold marker arms with 124 inches of float are used on all DB planters. This design enables planting close to field edges and fence rows, while also keeping hoses and cylinders out of residue and soil.

Proven performance and pick-up-and-go mobility

VacuMeter™ seed metering accuracy for cotton, corn, peanuts, and sorghum. With row spacing to 40 inches, in 4- to 10-row sizes, you'll find a 1700 John Deere Rigid Integral Planter that's just right for your operation.

Available in several row spacings, you can work wide or narrow – whatever your crop requires. But no matter what you plant, the 1700 will save on seed costs and boost emergence, thanks to uniform VacuMeter seed spacing and the precision placement of the TruVee opening/closing system.

Plus, 3-point-hitch mounting offers almost instant mobility for convenient maneuvering and transport. Two adjustable parking stands are standard equipment, making it even easier to hook up to your tractor.

The 1700 Rigid Integral Planter has a strong following in conventional- to reduced-till fields. Its rugged 7x7-inch steel mainframe and numerous features give you season after season of dependable planting performance.

Avoid costly skips or overlaps by marking a clear sight line with John Deere row markers. You can choose the best blade for your conditions. Heavy-duty components add up to longer life and reliability. And quick, convenient adjustments make it easy to match your row spacing.

John Deere offers dual gauge wheels for increasing flotation in soft soil. Also check out other cotton-specific options like V-wing bed sweeps.

Lift and go in minutes with this folding integral. For simplicity and economy in a folding integral planter, you'd be hard-pressed to find any other that compares to a 1710 Vertical-Fold Planter.

Just fold the wings hydraulically, lock them in place manually, and you're moving to the next field in a matter of minutes. See page 43 for transport dimensions.

Plant on 30-inch spacing with the 12-row machine. Get 3-section field flexibility to maintain accurate seed depth over rolling ground and terraces. Wings flex 8 degrees up and 6.5 degrees down.

On flat land or beds, lock the wings in the rigid position so all four gauge wheels can drive the seed transmission. When the frame is allowed to flex, two center gauge wheels drive the transmission. See your dealer for details.

For easy transport, the 12Row30 Vertical-Fold Planter travels at 20-feet 6-inches wide and 13-feet high when folded.

New integral planters on wide spacing with 100-bushel capacity

Seed hopper size has limited the acres you could cover in a day. Until now. Meet our new 16Row40 and 18Row38 custom-built integral planters. They're our first wide-row integrals to be equipped with the Central Commodity System, with its dual tanks that can hold up to 100 bushels of seed. Productivity has never been so impressive! But because productivity isn't the only goal during planting season, we took our proven Pro-Series™ XP row units and hung them on rugged, wide-working stack-fold bars from Orthman Manufacturing. Combined, these features give you the accuracy and reliability you require. Visit your John Deere dealer today for more information.

The Custom-built, 12-row integral planter from John Deere and Orthman® Manufacturing is for the producer who wants a 12-row stack-fold planter with the Central Commodity System.

Side-fold markers on the 1720 keep you working close to field edges and fences, so you make the most of every acre.

1720CCS stack-fold planter

The 1720 Stack-fold Planter – it has always been the planter of choice for those of you who plant on beds or are advocates of strip till. And now, with the addition of the Central Commodity System (CCS), the 1720 gives you the added benefit of greater productivity. Two 50-bushel CCS tanks will keep you in the field twice as long as 3-bushel hoppers. Factor in the time savings of bulk fill, and you can expect a big spike in the number of acres covered daily. But adding CCS to the 1720 didn't diminish its maneuverability one bit. The integral design makes this planter a winner both in the field and on the road.

The 1720 CCS is available in a 16Row30 configuration. The three-section frame is made to accommodate rolling terrain, and so can flex up 10 degrees and down 7 degrees. When on beds, simply lock the frame in rigid position to plant.

1720 stack-fold planter

No need to empty hoppers. For wide planting but narrow transport, choose the 1720 John Deere Stack-Fold Planter. With 8-, 12-, and 16-row models available, you'll cover fields in a hurry. But field-to-field transport won't slow your pace. Simply fold the wings hydraulically over-center for travel. And, because the seed boxes stay upright during transport, you don't have to empty the hoppers each time you move.

Just choose the model and configuration that fits your needs. The 8-row plants 36-, 38-, or 40-inch rows with a rigid or flex frame. Or, choose a 12-row rigid- or flex-frame on 30-inch rows or a 12-row rigid frame on wider spacings – they're ideal partners for new John Deere 6-row pickers. Finally, the 16-row model plants 30-inch rows. The wing sections can be operated in a rigid, or one of two flex modes for greater ease of use.

To apply liquid fertilizer, a liquid piston pump is available, as are these unit-mounted double-disk openers. The openers are suggested for use in conventional and reduced-till fields, as well as light no-till conditions.

Trust two 4x24x1.75-inch hydraulic cylinders to raise and lower the 1720 Planter's outer wings for quick, narrow transport. Planter boxes remain upright so you don't have to empty hoppers when moving to another field.

Straight lift-assist wheels (left) are available for extra lift capacity and stability. For your convenience, add single-lever control of raising and lowering the planter. One SCV lever controls both the rockshaft and planter lift-assist wheels.

Narrow-row advantages

With a 1730 John Deere Narrow-Row Planter, you have the convenient mobility of an integral planter and twice the planting versatility.

Plant 6 or 8 rows of one crop on 30, 36, 38, or 40 inches; then lower the "splitter" row units to plant 11 or 15 rows at half the row spacing. Or with wheel skips, you'd have a 9- or 13-row planter. To help keep soil and residue flowing through, splitter units are set back 7 inches on extra-long parallel arms. You can also mount most row-tillage attachments to the heavy-duty 7x7-inch main-frame. A front-mounted seed transmission is driven by a gauge wheel to give you 50 rate selections, just like the rear-mounted drive.

Planting sugar beets? Then head to the field with a 12-row 22-inch dedicated narrow-row planter.

Double up for more productivity with the quick-pick-up planting of a 1730 Narrow-Row Integral.

1730 NARROW-ROW CONFIGURATIONS

Standard Rows	6 rows	8 rows	12 rows
in. (cm)	30, 36, 38, 40 (76, 91, 97, 102)	30, 36, 38, 40 (76, 91, 97, 102)	22 (56)
Splitter Rows	11 rows	15 rows	—
in. (cm)	15, 18, 19, 20 (38, 46, 48, 51)	15, 18, 19, 20 (38, 46, 48, 51)	—
Rows with Wheel Skips	9 rows	13 rows	—
in. (cm)	15 (48)	18, 19, 20 (46, 48, 51)	—

With larger tractors, such as the one shown here, you can operate a 1730 without lift-assist. For use with smaller tractors, arched, dual lift-assist wheels are available for extra lift capacity and improved stability in the field and on the road.

This 3-bushel seed hopper increases capacity, yet maintains a narrow design for narrow-row planting. Use it in standard row spacing or with splitter units and long parallel arms that offset every other row unit.

For consistent depth control, opt for the single air-bag pneumatic down-force system. This design gives additional clearance for the drive system and is infinitely adjustable to provide 0-400 pounds of down-pressure.

A centrally-located 600 U.S. gallon fertilizer tank is available for the 16-row and 24-row 1770NT Planter. A 420 U.S. gallon frame-mounted fertilizer tank is offered with the 30-foot 1790 Planter. Other tank options are available for additional planter models; see your dealer for more information.

Each fertilizer hopper holds about 550 pounds of dry fertilizer for longer running intervals. The lid opens wide for fast filling, and the entire hopper pivots for easy dumping. Available on 1750, 1770, and 1780 Planters. Drives and transmissions are included.

Put nutrients in their place

John Deere has a fertilizer system to meet your needs – whether you apply liquid or dry fertilizer, and regardless of your tillage approach.

Big fertilizer capacity keeps you planting, not refilling. Dry fertilizer hoppers hold 550 pounds of granular product (per two rows). Liquid fertilizer tanks vary in capacity, depending on your planter model.

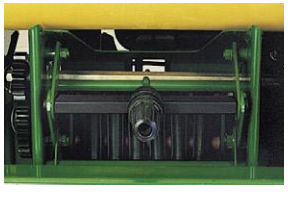
Opener choices are wide-open. See specifics on this page and ask your dealer for more information on the right opener for your fields.

This frame-mounted double-disk opener is an excellent match for conventional- or reduced-till fields. (Not compatible with a frame-mounted coulter.)

The single-disk fertilizer opener works well for no-till, double-crop, and reduced-till fields, plus firm-soil conventional seedbeds. A 13-inch rubber wheel gauges depth and minimizes soil disruption. A cast spout keeps soil from flowing into the furrow before fertilizer is delivered.

Unit-mounted double-disk openers for liquid fertilizer disturb less soil. Fertilizer can be placed even with seed depth or one inch below. The opener can be positioned up to 2 1/4 inches off the row. Ideal for conventional, reduced-till, and light no-till fields.

Unit-mounted single-disk liquid-fertilizer injection system openers use a single, 50-wave coulter to penetrate tough seedbeds. The liquid fertilizer is injected into the soil directly behind the coulter. For use with select planter models.



The squeeze pump offers reliable liquid fertilizer application. Regular-rate hoses apply 5 to 52.7 US gallons per acre; low-rate hoses are available.

This single-piston, variable-stroke pump uniformly applies liquid fertilizer. Positive displacement produces delivery rates of 1.9 to 38 US gallons per acre. Application rates aren't ground-speed dependent.

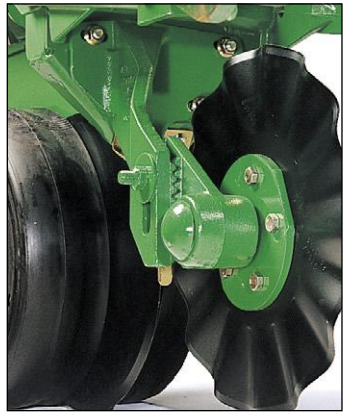
Customize your John Deere planter for your conditions

Match your planting conditions to a tee with a customized John Deere Planter. A full range of attachments and accessories allows you to tailor your planter to your specific soil types and residue levels... from no-till corn trash to sticky gumbo and everything in between.

To learn more about how to adapt your planter to match your fields and planting conditions, ask your John Deere dealer for specifics.

This V-wing bed sweep removes the top layer of soil from a bed so the opener runs on a smoother surface.

This also helps put seed in touch with moist soil for quicker germination.

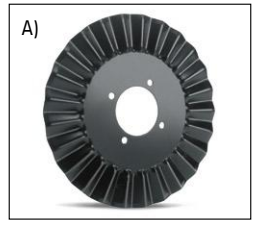


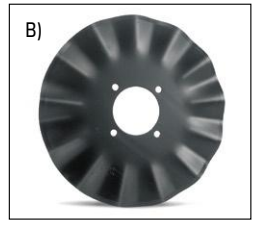
Unit-mounted coulter arms use the weight and gauging ability of the planter unit in reduced-till conditions. Choose fluted or bubble blades. Frame-mounted coulter arms (not shown) resist row-unit damage in rocky fields. Includes parallel arms, special mounting bracket, and adjustable down-force springs. Compatible with bubble coulters. Remember: Never set coulters to run deeper than openers.

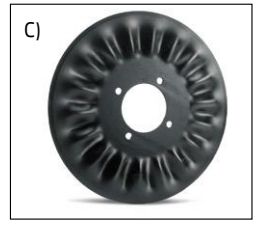
Get the best of both worlds with this coulter/row-cleaner combination. Row cleaners lead the way to clear residue from the path of Tru-Vee openers. This helps soil warm up faster, reduces hairpinning of residue, and prevents residue toxins from entering the root zone. The coulter blade is positioned between row-cleaner wheels, directly in front of the opener, to cut residue and slice soil. And it's unit-mounted to follow ground contours.

Give Tru-Vee openers a clear path by sweeping away residue with this unit-mounted row cleaner. The 1/4-inch wheel works well in most conditions and can be raised completely out of action or adjusted so that the fingers interlock.

Conservation disk furrow can be used in tilled soil to move dry soil and trash to each side, allowing openers to plant into moist soil. Two 13-inch cutout leading blades provide for aggressive cutting. You can adjust depth and blade angle to match conditions. Effectiveness is limited by the cutting ability of the disks. This attachment is not compatible with unit- or frame-mounted coulters.

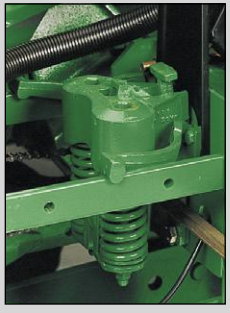






Match your field conditions with one of four coulter blades. All are compatible with unit-mounted arms or any John Deere row cleaner. Only the bubble coulter is compatible with frame-mounted arms.

A) 25-Wave (0.63-inch): Creates extremely fine tilth in an area about 7/8-inch wide. Works well on wet, spongy soil that can be tight and difficult for proper furrow closing.



Keep row units from bouncing in heavy residue or tough soil with adjustable, heavy-duty down-force springs (left). You get four down-force settings per row: 0, 125, 250, or 400 pounds. And you can make adjustments without tools as your soil and residue conditions change. In conventional-till fields, consider nonadjustable down-force springs (not shown). Single springs apply up to 90 pounds of down-force, while double springs offer up to 180 pounds per row.

The pneumatic down-force system (left) offers a centralized location for quick, easy adjustment for all row-units. To closely match your specific conditions, this system is infinitely variable up to 400 pounds per row. And once you set the desired down-pressure, it's maintained throughout the full range of row-unit travel. Standard on 1770NT, 1790, and DB Series planters.

These heavy-duty, frame-mounted coulters are ideally suited to planting in rocky soil conditions.

The drag closing system* is designed to improve emergence in "baked-and-crusted" soil conditions across the Southwest. The seed packer wheel pushes seed into moist soil, while the drag brings loose soil into the furrow without compaction.

*Not available on the Pro-Series row unit.

Positive seed-to-soil contact is critical for quick germination. John Deere offers a full selection of closing systems to match your crops and soil conditions.

Standard rubber-tire closing wheels work well for most conventional- to no-till fields. You can adjust the spacing between the wheels, as well as stagger them for improved residue flow.

Cast-iron closing wheels are suggested for tough soil and heavy residue where more pressure is needed to close the furrow. Angle and stagger adjustments are identical to standard rubber wheels.

The disk closing system* is recommended for planting at shallow depths in light, sandy soil. The disks push soil against and over the seed, while the wide press wheel applies light pressure for good seed-to-soil contact.
*Not available on the Pro-Series row unit.

B) 13-Wave (0.7-inch): Tills an area about 1-inch wide at speeds under 6 miles per hour. Gives more aggressive soil disruption at slower speeds. It fractures the soil more, opening a wider slot of fine tilth.

C) Bubble: Tills more aggressively as bubbles enter the seedbed zone. Opens a 1-inch-wide slot. Penetrates soil and cuts through residue well.

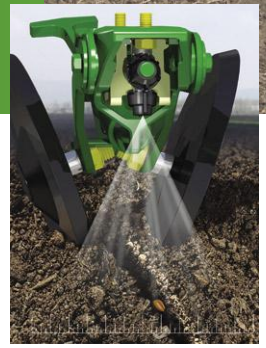
Advancements that protect both you and your crop.

Become more efficient during the planting season with the Central Insecticide System. Designed to work with Force® CS, this closed-handling system gives you efficient, hassle-free corn rootworm control, plus legendary John Deere CCS planter productivity.

Simply load boxes of highly-concentrated insecticide into the cabinet and fill the frame-mounted tank with water. That's all there is to it. No measuring and manual mixing of chemicals. Plus, there are no row-unit hoppers on every row unit to fill, as with dry insecticide, so you'll spend less time filling and more time planting.

The CIS is compatible with Force CS, which is packaged in an easy-to-handle, easy-to-install box. Inside is a valved 2.5-gallon (US) bag of concentrated insecticide.

Important: Always read and follow label instructions before buying or using Force CS. Force 3G and Force CS are Restricted Use Pesticides. Force CS is not registered for use or sale in Canada. Force® and the Syngenta logo are trademarks of a Syngenta Group Company, used with permission. Central Insecticide System™ is a trademark of Deere & Company.



Spray nozzles apply the solution in a T-band over the furrow. The nozzle reduces drift and sprays close to the ground so the solution won't get on seed tubes or closing wheels.

The CIS monitor gives you easy control over application rates and lets you keep track of water and chemical usage. The monitor is tied into your planter's monitoring system, so it automatically adjusts the application rate to match your operating speed, which helps save costly application errors. Dry boxes don't offer this level of accuracy and efficiency.

One-pass herbicide and/or insecticide application... convenience at it's best.

One-pass herbicide and/or insecticide application ... convenience at its best. Make each pass with your John Deere planter more productive by applying herbicide and/or insecticide in the same trip. John Deere offers a full selection of chemical-application options to fit the way you farm.

The granular chemical hopper holds 70 pounds of insecticide or herbicide, or 35 pounds of each when used with a special hopper divider. Large detented knobs have easy-to-read digits for quick, accurate settings. An easy-to-reach, push/pull knob lets you disengage the drive when chemical application isn't needed.

The drive system automatically engages and disengages for each hopper. And a single-pitch chain and slide idlers provide smooth, reliable metering.

The options mentioned here are just a sampling. For more options, see your John Deere dealer.

A 225 US-gallon liquid insecticide tank can be factory installed on both standard and CCS-equipped 1770NT planters (CCS Refuge Plus-equipped planters get an appropriately-sized tank). A rear hitch with a towing capacity of 2,000 US gallons is available for tow-behind fertilizer carts.

Apply insecticide and herbicide at the same time, or individually. An adjustable orifice in the chemical meter determines material delivery. Large knobs and big numbers make it easy to set the rate.

An L-shaped bracket mounts to the front of the closing wheel casting for accurate in-furrow placement. Or, attach the front-mounted spreader to band chemicals in a 7-inch-wide pattern.

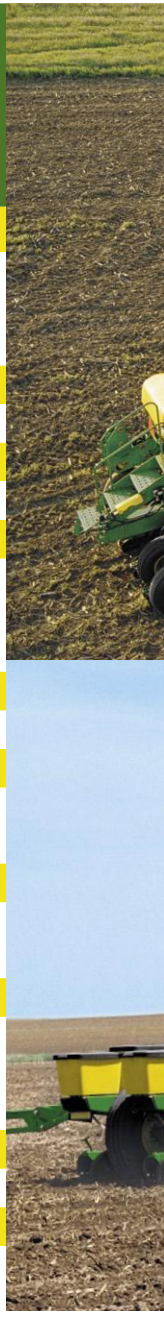
Place herbicide where it does the best job. You can band herbicide behind the closing wheels with this rear-mounted diffuser. Herbicide is distributed in a 14-inch-wide band. Add a rear-mounted windshield to keep the application pattern on target.

Apply both granulars behind the closing system. This rear-mount insecticide spreader with herbicide diffuser applies insecticide in a 7-inch band and herbicide in a 14-inch band.

Place two chemicals in-furrow with one convenient hose position. The "Y" hose adapter lets you place both insecticide and herbicide in one location.

Available on all John Deere Planters, the Chemical-Saver meter roller reduces leakage when turning and in transport. Apply herbicide and insecticide at rates of 8 ounces or less per 1,000 feet, which covers most chemicals currently used. For higher rates, use the black fluted roller.

DRAWN PLANTER MODEL:							
1750 DRAWN	1760NT WING-FOLD	1760 WING-FOLD CONSERVATION	1770 FRONT-FOLD CONSERVATION	1770NT NARROW TRANSPORT	1770NT CENTRAL COMMODITY SYSTEM	1780 RIGID NARROW-ROW	1790 FRONT-FOLD
Configurations: W = 36 or 38 in. (91 or 97 cm) N = 30 in. (76 cm)							
4 rows (W) 4, 6, 8 rows (N)	6, 8 rows (N)	12 rows (N)	12 rows (N)	12,16, 24 rows (N)	12,16, 24 rows (N)	6/11, 8/15 rows (N)	12/23, 12/24 rows (N) 16/31, 16/32 rows (N) 24Row20
Frame Type							
Rigid	Rigid	Rigid; Flex (optional)	Flex	Flex	Flex	Rigid	Flex
Mainframe Size							
7x7 in. (177x177 mm)	7x7 in. (177x177 mm)	7x7 in. (177x177 mm)	7x7 in. (177x177 mm)	7x7 in. (177x177 mm)	7x7 in. (177x177 mm)	7x7 in. (177x177 mm)	7x7 in. (177x177 mm)
Flexibility							
None	None	2-section 20 deg. up, 20 deg. down	2-section 20 deg. up, 30 deg. down	3-section 21 deg. up, 21 deg. down	3-section 21 deg. up, 21 deg. down	None	3-section flex 15 deg. up, 15 deg. down
Lift System							
Wheel module	Wheel module	Wheel module	Wheel module	Wheel module	Wheel module	Drop axle	Wheel module
Hydraulic Control							
Series rephasing; master cylinder	Master/slave rephasing pairs	Master/slave rephasing pairs				Hooked parallel to drop axle	
Fold							
None	Manual (6Row); hydraulic (8Row)	Hydraulic	Hydraulic fold with manual lock	Hydraulic front-fold	Hydraulic front-fold	None	Hydraulic front-fold
Drive Type							
Single-pitch, chain, optional hydraulic drive	Tire-contact, optional hydraulic drive	Tire-contact, optional hydraulic drive	Tire-contact, optional hydraulic drive	Tire-contact, optional hydraulic drive	Tire-contact, optional hydraulic drive	Tire-contact	Tire-contact, optional hydraulic drive
Drive Disconnect							
Yes	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic
Number of Drive Wheels							
4 (8Row); 2 (4Row; 6Row)	1 for seed; 1 for liquid fertilizer (opt.)	1 for seed; 1 for liquid fertilizer (opt.)	1 for seed; 1 for fertilizer	1 for seed; 1 for liquid fertilizer (opt.)	1 for seed; 1 for liquid fertilizer (opt.)	1 for seed; 1 for fertilizer (opt.)	1 for seed; 1 for fertilizer (opt.)



(Specifications and design subject to change without notice.)

DRAWN PLANTER TRANSPORT DIMENSIONS	WIDTH	HEIGHT
1750 Drawn		
4-row (30, 36, 38 in.)	13 ft. 10 in. (4.2 m)	9 ft. 4 in. (2.8 m)
6-row (30 in.)	15 ft. 8 in. (4.8 m)	11 ft. 6 in. (3.5 m)
8-row (30 in.)	24 ft. (7.3 m)	9 ft. 6 in. (2.9 m)
1760NT Wing-Fold		
6-row (30 in.)	12 ft. (3.7 m)	11 ft. 8 in. (3.6 m)
8-row (30 in.)	12 ft. (3.7 m)	10 ft. 9 in. (3.3 m)
1760 Wing-Fold Conservation		
12-row (30 in.)	15 ft. 8 in. (4.8 m)	10 ft. (3.1 m)
1770 Front-Fold Conservation		
12-row (30 in.)	15 ft. 2 in. (4.6 m)	11 ft. 3 in. (3.4 m)
1770NT		
12-row (30 in.)	12 ft. (3.7 m)	12 ft. 6 in. (3.8 m)
16-row (30 in.)	12 ft. (3.7 m)	12 ft. 6 in. (3.8 m)
24-row (30 in.)	12 ft. (3.7 m)	12 ft. 6 in. (3.8 m)
1770NT Central Commodity System		
12-row (30 in.)	12 ft. (3.7 m)	12 ft. 6 in. (3.8 m)
16-row (30 in.)	12 ft. (3.7 m)	12 ft. 6 in. (3.8 m)
24-row (30 in.)	12 ft. (3.7 m)	12 ft. 6 in. (3.8 m)
1780 Rigid Narrow-Row		
6/11-row (30/15 in.)	16 ft. 3 in. (5.0 m)	11 ft. (3.4 m)
8/15-row (30/15 in.)	23 ft. 1 in. (7.0 m)	9 ft. 9 in. (3.0 m)
1790 Front-Fold Planter		
12/23-row (30/15 in.)	12 ft. (3.7 m)	12 ft. 5 in. (3.8 m)
12/24-row (30/15 in.)	12 ft. (3.7 m)	12 ft. 5 in. (3.8 m)
16/31-row (30/15 in.)	12 ft. (3.7 m)	12 ft. 5 in. (3.8 m)
16/32-row (30/15 in.)	12 ft. (3.7 m)	12 ft. 5 in. (3.8 m)
24-row (20 in.)	12 ft. 11 in. (3.9 m)	12 ft. 5 in. (3.8 m)

(Specifications and design subject to change without notice.)

INTEGRAL PLANTER MODEL:			
1700 RIGID	**1710 VERTICAL-FOLD**	**1720 STACK-FOLD**	**1730 NARROW-ROW**
Configurations: W = 36, 38, or 40 in. (91, 97, or 102 cm) N = 30 in. (76 cm)			
4, 6, 8 rows (W) 4, 6, 8, 10 rows (N)	12 rows (N)	8, 12 rows (W) 12, 16 rows (N)	6/11, 8/15 rows (W) 6/11, 8/15 rows (N) 12 rows (22-in.)
Frame Type			
Rigid	Vertical-fold	Stack-fold: Rigid, Flex*	Rigid
Mainframe Size			
7x7 in. (177x177 mm)	7x7 in. (177x177 mm)	7x7 in. (177x177 mm)	7x7 in. (177x177 mm)
Flexibility			
None	3-section 8 deg. up, 6.5 deg. down	3-section 5deg. up, 20 deg. down 16Row30 10 deg. up, 7 deg. down	None
Hitch and Lift System			
Cat. 2 with or without Quick-Coupler; Cat. 3 with Quick-Coupler	Cat. 2 with or without Quick-Coupler; Cat. 3 with Quick-Coupler	Cat. 3 with Quick-Coupler;	Cat. 2 with or without Quick-Coupler; Cat. 3 with Quick-Coupler
Fold			
None	Hydraulic vertical wing-fold with manual locks	Hydraulic over-center stack-fold	None
Seed Transmissions			
One rear-mounted	One rear-mounted 16Row30, Variable-Rate Drive	Tire-contact, optional hydraulic drive	One front-mounted
Drive Wheels			
2	2 (flex-frame); 4 (if locked rigid)	2 (flex-frame); 4 (rigid-frame)	2
Dual Lift-Assist Wheels (optional)			
Straight	Straight	Straight 16Row30, Base equipment	Arched

*A 3-section flex-frame is available on 8Row36/38/40 and 12, 16Row30 only.

(Specifications and design subject to change without notice.)

INTEGRAL PLANTER TRANSPORT DIMENSIONS	WIDTH	HEIGHT
1700 Rigid Integral		
4-row (30, 36, 38, 40 in.)	13 ft. 3 in. (4.1 m)	9 ft. 6 in. (2.9 m)
6-row (30 in.)	16 ft. 4 in. (5.0 m)	9 ft. 6 in. (2.9 m)
6-row (36, 38, 40 in.)	23 ft. 1 in. (7.0 m)	10 ft. 1 in. (3.1 m)
8-row (30 in.)	23 ft. 1 in. (7.0 m)	10 ft. 1 in. (3.1 m)
8-row (36, 38, 40 in.)	28 ft. 10 in. (8.8 m)	12 ft. 4 in. (3.8 m)
10-row (30 in.)	28 ft. 10 in. (8.8 m)	12 ft. 4 in. (3.8 m)
1710 Vertical-Fold		
12-row (30 in.)	20 ft. 6 in. (6.3 m)	13 ft. (4.0 m)
1720 Stack-Fold		
8-row (36 in.)	16 ft. 5 in. (5.0 m)	11 ft. 2 in. (3.4 m)
8-row (38, 40 in.)	17 ft. 5 in. (5.3 m)	11 ft. 2 in. (3.4 m)
12-row (30 in.)	20 ft. 3 in. (6.2 m)	11 ft. 8 in. (3.6 m)
12-row (36 in.)	19 ft. 6 in. (5.9 m)	13 ft. 3 in. (4.1 m)
12-row (38, 40 in.)	23 ft. 8 in. (7.3 m)	13 ft. 3 in. (4.1 m)
16-row (30 in.)	26 ft. 8 in. (8.1m)	13 ft. 2 in. (4.1 m)
1730 Narrow-Row		
6/11-row (30/15 in.)	15 ft. 9 in. (4.8 m)	11 ft. 5 in. (3.5 m)
6/11-row (36/18, 38/19, 40/20 in.)	20 ft. 9 in. (6.3 m)	9 ft. 6 in. (2.9 m)
8/15-row (30/15 in.)	20 ft. 9 in. (6.3 m)	9 ft. 6 in. (2.9 m)
8/15-row (36/18, 38/19, 40/20 in.)	27 ft. 9 in. (8.5 m)	9 ft. 6 in. (2.9 m)
12-row (22 in.)	25 ft. 10 in. (7.9 m)	12 ft. 4 in. (3.8 m)

Base-equipped machines. (Specifications and design subject to change without notice.)

(Specifications and design subject to change without notice.)

DB PLANTER MODEL:	DB44	DB58	DB60 – 36R	DB60 – 47R SPLIT-ROW	DB66	DB80 – 32R	DB80 – 48R
Frame (Bauer Built Mfg):							
Control	Frame control	Frame control	Frame control	Frame control	Frame control	Frame control	Frame control
Type	Three-section front-fold	Three-section front-fold	Three-section front-fold	Three-section front-fold	Three-section front-fold	Three-section front-fold	Three-section front
Tool bar	7x7-in. (178x178 mm)	7x7-in. (178x178 mm)	7x7-in. (178x178 mm)	7x7-in. (178x178 mm)	7x7-in. (178x178 mm)	7x7-in. (178x178 mm)	7x7-in. (178x178 m
Location of row units on frame:							
Center section	8 units	10 units	10 units	13 units	10 units	6 units	10 units
On each wing	8 units	10 units	13 units	17 units	13 units	13 units	19 units
Flexibility (wings):							
	Each wing flexes 15 degrees up and down relative to each other						
Lift system type (wheel module):							
	Electrohydraulic series rephasing cylinders						
Tires:							
Drive tires/wings	4 – 31 - 13.5 x 15	4 – 31 - 13.5 x 15	4 – 31 - 13.5 x 15	4 – 31 - 13.5 x 15	4 – 31 - 13.5 x 15	4 – 31 - 13.5 x 15	4 – 31 - 13.5 x 15
Seed transmission tire (2)	9.50x18 4 PR turf tire						
Transport tires	4 – 31 - 13.5 x 15	4 – 16.5 x 16.1	4 – 16.5 x 16.1	4 – 16.5 x 16.1	4 – 16.5 x 16.1	4 – 445/50R 22.5	4 – 445/50R 22.5
Drives:	Ground drive, optional hydraulic variable-rate drive	Ground drive, optional hydraulic variable-rate drive	Ground drive, optional hydraulic variable-rate drive	Hydraulic variable-rate drive	Ground drive, optional hydraulic variable-rate drive	Ground drive, optional hydraulic variable-rate drive	Hydraulic variable-
Number of rows:							
	24 rows on 22-in spacing	32 rows on 22-in spacing	36 rows on 20-in. spacing	47 rows on 15-in. spacing	36 rows on 22-in. spacing	32 rows on 30-in. spacing	48 rows on 20-in. spacing
Planting units (John Deere):							
Meter	Vacuum - 2 blower system	Vacuum - 2 blower system	Vacuum - 2 blower system	Vacuum - 3 blower system	Vacuum - 2 blower system	Vacuum - 2 blower system	Vacuum - 4 blower
Central Commodity System							
	100 bushels; 125 bushels with Refuge Plus option	100 bushels; 125 bushels with Refuge Plus option	100 bushels; 125 bushels with Refuge Plus option	100 bushels; 125 bushels with Refuge Plus option	100 bushels; 125 bushels with Refuge Plus option	100 bushels; 125 bushels with Refuge Plus option	100 bushels; 125 b with Refuge Plus o
Capacities per row:							
Seed	1.6 bu. (0.6 m^3) or *3.0 bu. (1.1 m^3) (* Not compatible with granular chemical hopper.)						
Insecticide only	70 lb. (32 kg)						
Herbicide only	70 lb. (32 kg)						
Herbicide and insecticide	35 lb. (16 kg)						
Additional Specs							
Marker system:	Fold-over hydraulic markers						
Monitor system:	SeedStar 2 (standard)						
Tractor hitch required:	Drawbar (with heavy-duty drawbar support system)						

8R	DB88	DB90	DB120
l	Frame control	Frame control	Frame control
n front-fold	Three-section front-fold	Five-section front-fold	Five-section front-fold
x178 mm)	7x7-in. (178x178 mm)	7x7-in. (178x178 mm)	7x7-in. (178x178 mm)
	10 units	6 units	6 units
	19 units	8 inner, 7 outer	9 inner, 12 outer
x 15	4 – 31 - 13.5 x 15	8 – 31 - 13.5 x 15	8 – 31 - 13.5 x 15
		N/A	N/A
22.5	4 – 445/50R 22.5	4 – 445/50R 22.5	4 – 445/50R 22.5
iable-rate drive	Hydraulic variable-rate drive	Hydraulic variable-rate drive	Hydraulic variable-rate drive
g	48 rows 22-in. spacing	36 rows on 30-in. spacing	48 rows on 30-in. spacing
lower system	Vacuum - 4 blower system	Vacuum - 3 blower system	Vacuum - 4 blower system
125 bushels Plus option	100 bushels; 125 bushels with Refuge Plus option	100 bushels; 125 bushels with Refuge Plus option	100 bushels; 125 bushels with Refuge Plus option

DB PLANTER TRANSPORT DIMENSIONS	WIDTH	HEIGHT	LENGTH	UNDERFRAME CLEARANCE	ESTIMATED WEIGHT (BASE MODEL)
DB44	†15-ft. (4.6 m)	10-ft. (3 m)	37-ft. (11.3 m)	22-in. (55.9 cm)	27,000 lb. (12,247 kg)
DB58	†17-ft. 6-in. (5.3 m)	10-ft. (3 m)	41-ft. (12.5 m)	22-in. (55.9 cm)	29,200 lb. (13,245 kg)
DB60–36R	16-ft. (4.9 m)	10-ft. (3 m)	41-ft. (12.5 m)	22-in. (55.9 cm)	29,800 lb. (13,517 kg)
DB60–47R Split-Row	17-ft. 6-in. (5.3 m)	10-ft. (3 m)	41-ft. (12.5 m)	22-in. (55.9 cm)	32,000 lb. (14,515 kg)
DB66	17-ft. 6-in. (5.3 m)	12-ft. (3.7 m)	46-ft. (14 m)	22-in. (55.9 cm)	30,500 lb. (13,835 kg)
DB80–32R	†16-ft. (4.9 m)	12-ft. (3.7 m)	50-ft. (15.2 m)	26-in. (66 cm)	32,000 lb. (14,515 kg)
DB80–48R	†16-ft. (4.9 m)	12-ft. (3.7 m)	50-ft. (15.2 m)	26-in. (66 cm)	35,000 lb. (15,876 kg)
DB88	17-ft. 6-in. (5.3 m)	12-ft. (3.7 m)	55-ft. (16.8 m)	26-in. (66 cm)	36,000 lb. (16,329 kg)
DB90	16-ft. (4.9 m)	12-ft. (3.7 m)	55-ft. (16.8 m)	26-in. (66 cm)	34,000 lb. (15,422 kg)
DB120	15-ft. (4.6 m)	12-ft. (3.7 m)	62-ft. (19.0 m)	26-in. (66 cm)	40,200 lb. (18,273) kg

Maximum tractor hydraulic operating pressure: 3,000 psi (20,700 k Pa)

†DB Planters w/CCS option transport at 1-ft. less than non-CCS models.

Base-equipped machines. (Specifications and design subject to change without notice.)

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