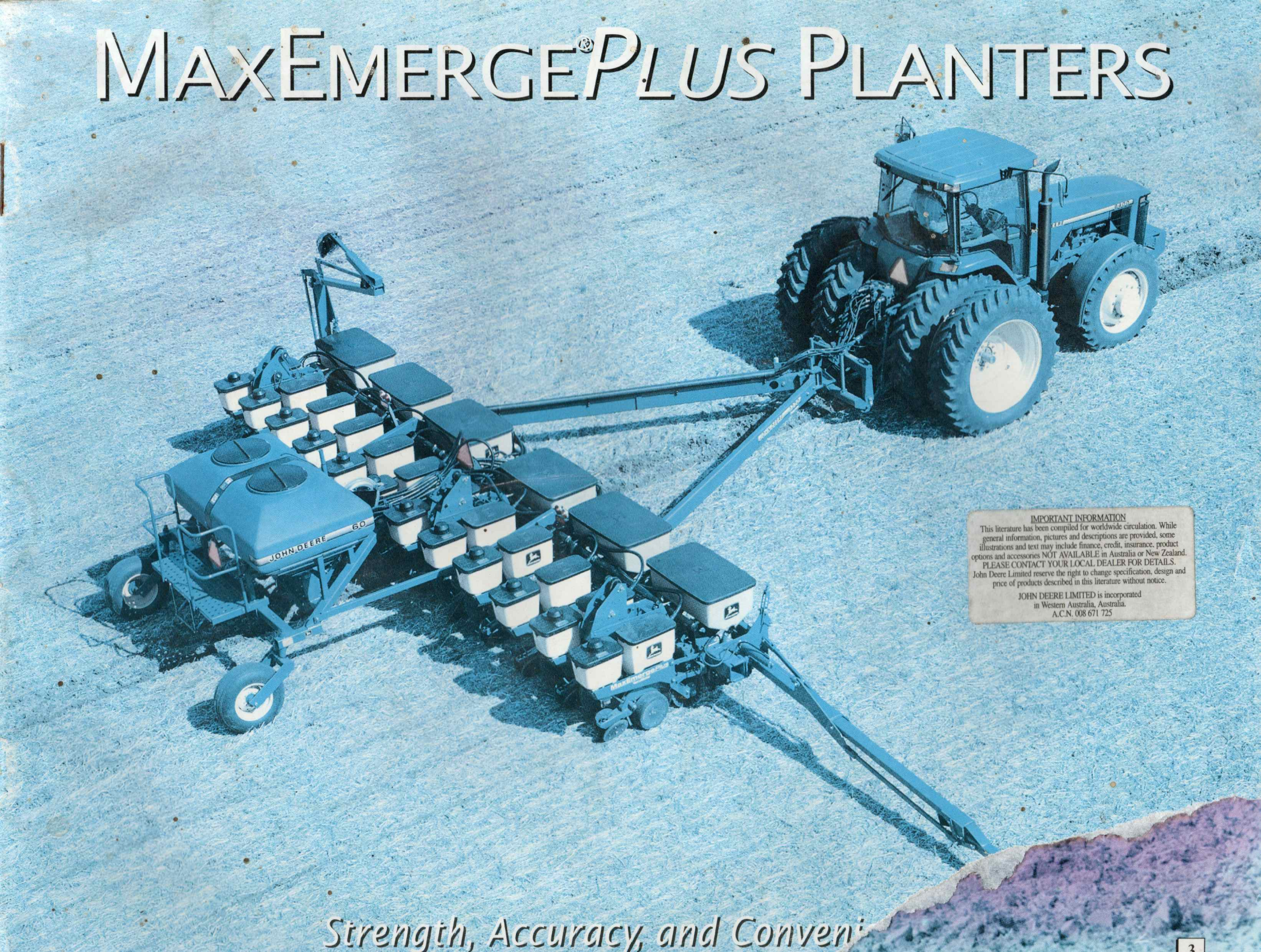
MaxEmerge®*Plus* Planters



Strength, Accuracy, and Conveni

Table of Contents

JOHN DEERE

SAFETY live with it

PRINTED WITH SOY INK

New Advancements In Planting Technology

Introducing the MaxEmergePlus row-unit . . . it's stronger, more accurate, and more convenient than anything else on the market. You'll find a detailed illustration on pages 4 and 5.

If you plant soybeans and corn, be sure to check out a new option in seed metering, the Radial Bean Meter, introduced on page 9.

Take a good look at the future of planter monitoring — page 10 introduces the SeedStar monitor.

John Deere continues to lead the way with 65 factory-built row configurations, with more on the way.

See how John Deere has expanded the 1780 Narrow-Row family of planters for higher productivity in sugarbeets, edible beans, and other crops. Turn to page 24 for the new 16-row 22-inch model.

ADVANCING FARMING FOR THREE DECADES

1974
MaxEmerge

1985
MaxEmerge 2

1996
MaxEmerge*Plus*

It all began with the MaxEmerge Planter. The original row-unit design introduced the remarkable Tru-Vee opener and closing system with depth-gauging right at the point the seed enters the furrow. MaxEmerge Planters revolutionized planting... and soon garnered the respect of the entire agricultural industry, spawning numerous imitations.

Seeking further improvements in seed spacing, John Deere introduced the MaxEmerge 2®. line of planters featuring an innovative vacuum-seed-metering system. The VacuMeter system brought a new level of accuracy to seed spacing and population control.

Meet the next generation of MaxEmerge technology... the MaxEmerge*Plus* row-unit. Now, more than a dozen advancements are added to the proven Tru-Vee opener and VacuMeter system to give you all-new strength, accuracy, and convenience.

MaxEmerge*Plus*: The new equation for planting success.

WHEN YOU LOOK AT THE ADVANCEMENTS

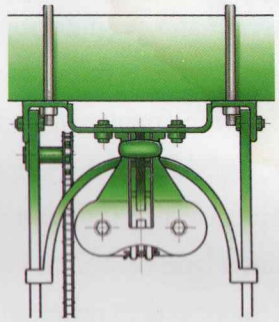
STRENGTH, ACCURACY AND CONVENIENCE

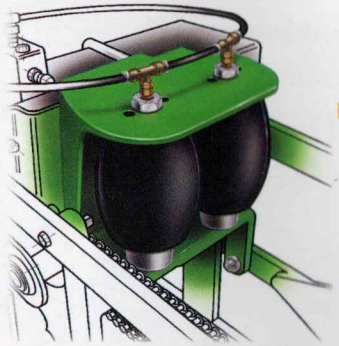
Look closely at all the inner value of the MaxEmerge*Plus* row-unit. With more than a dozen advancements in durability, seed-placement accuracy, and operating convenience, you'll quickly see how this row-unit is *the new equation for planting success.*

The basic principles that made the MaxEmerge 2 row-unit the most respected in the industry are still at the heart of the MaxEmerge*Plus* row-unit design. The revolutionary Tru-Vee opener with closing system ensures accurate seed depth and excellent seed-to-soil contact. And the proven VacuMeter system delivers single-seed precision in any crop.

With its "no-till tough" design, the MaxEmerge*Plus* row-unit stands up to the heavy residue and hard soil of today's conservation conditions. This durability lends itself to fence-row-straight planting and on-target fertilizer application. And numerous innovations simplify critical adjustments, making your planting time more productive and enjoyable.

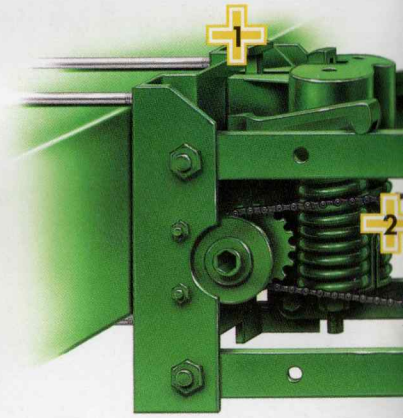
The MaxEmerge*Plus* row-unit...
now available on all 1700 Series Planters.





1 *Stronger Mount Maintains Row-Unit Position*
New welded mounting bracket helps U-bolts stay torqued to maintain row-unit position on the frame.

2 *Heavy-duty Down-Force Systems Tackle No-Till, Boost Yields*
Optional pneumatic down-force offers a centralized location for quick adjustment of down-force that's infinitely variable up to 400 pounds per row. Adjustable heavy-duty down-force springs also provide up to 400 pounds per row.



3 *Reinforced Shank Provides Unyielding Strength*
*Welded spine in shank prevents side deflection on rolling ground and in tough soils. Four times stronger than previous row units, the MaxEmerge*Plus *unit is the industry's toughest.*

4 *Radial Bean Meter for Cost-Effective Accuracy*
This all-new mechanical bean meter (optional) provides economical, accurate metering for soybeans.

5 *Quick Snap-In Seed Tube and Cover*
A longer wiring harness makes installation quick and easy.

6 *Heavier Seed-Tube Guard Lengthens Seed-Tube Life*
Heavier guard protects seed tube from wear.

7 *Centering Tab Boosts Seeding Accuracy*
Holds seed tube in place to improve spacing and depth control. Also extends wear life of seed tubes.

WE ADDED, YOU'LL SEE THE *PLUS* IN...

8 *Longer-Lasting Sprocket Idler*
Sprocket idlers replace smooth idlers to keep seed and chemical drive chains operating smoothly, and with less idler wear.

9 *Easier Gauge-Wheel Adjustment*
No washers needed. Screw bushing and attaching bolt are locked together for proper spacing of wheel to disk opener.

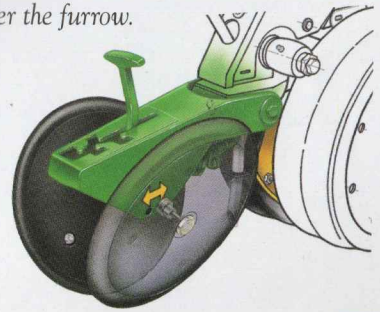
10 *Chemical-Saver Metering System Cuts Cost*
Reduces wasteful chemical spillage when turning and in transport.

11 *Handier "Y" Chemical Bander*
Allows dual in-furrow chemical application. Useful in many crops. Perfect for cotton and peanut growers.

12 *Easy-to-Grasp T-Handles*
T-shaped handles save scraped knuckles when adjusting seed depth and closing-wheel down-force.

13 *New Cast Closing-Wheel Arm Stays on Track*
Rugged cast arm takes on tough conditions and allows for more-consistent alignment over the furrow.

14 *Staggered Closing Wheels Reduce Plugging*
For better trash flow in heavy residue, try the new staggered position for closing wheels.



TRU-VEE OPENER

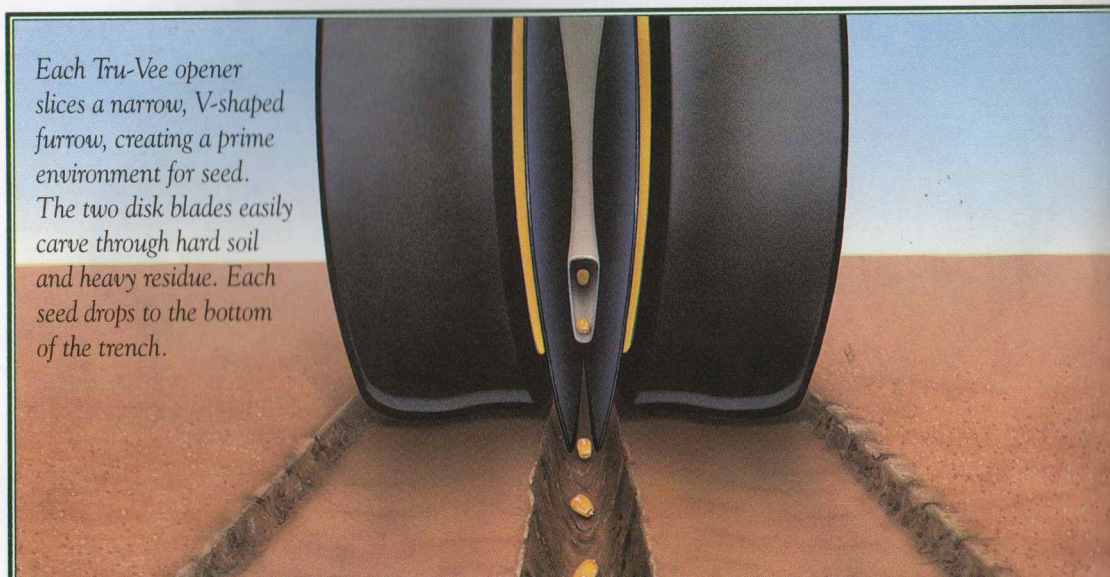
PLANTING ACCURACY IS PROVEN BY UNIFORM STANDS

The precision you need for planting success.

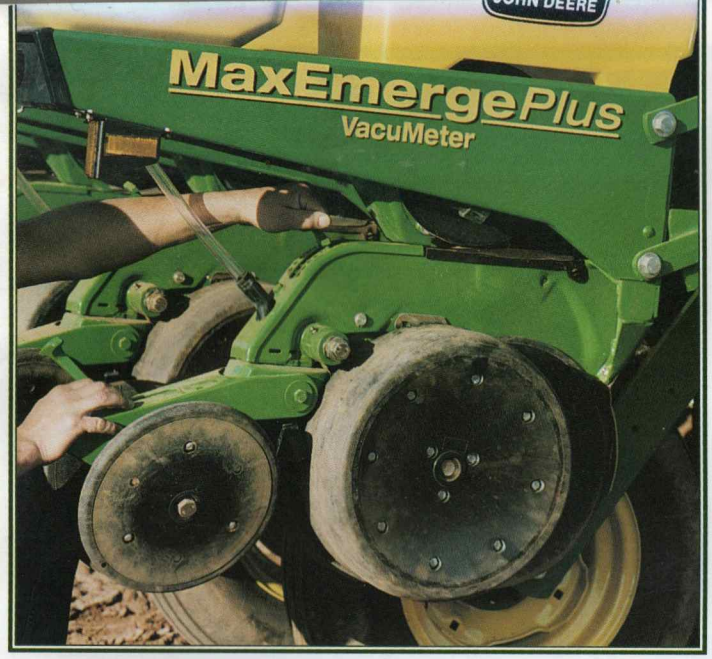
Do the advancements found on the MaxEmerge*Plus* row-unit affect planting accuracy? You bet they do. The improved strength translates into even better seed spacing and placement, especially in tough no-till conditions, and on rolling ground, terraces, and contours. And over a long day of planting, you'll really appreciate the improved ease of adaptability and adjustment.

Simplicity of design makes seed placement a science. Tru-Vee disk openers create a uniform seed trench in all soil types and residue levels. Gauge wheels measure depth right where seed lands and angled closing wheels gently firm soil around seeds for quicker germination. As a whole, this opener/closing system gives you precise, predictable results. And that's exactly what you need to get each season off to a successful start.

From start to finish, all major components work together as a simple, yet accurate, opening and closing system. Tru-Vee disk blades lead the way, carving a truer furrow. Gauge wheel location (next to where seed lands) ensures accurate seeding depth. And angled closing wheels finish the task, giving you good seed-to-soil contact.



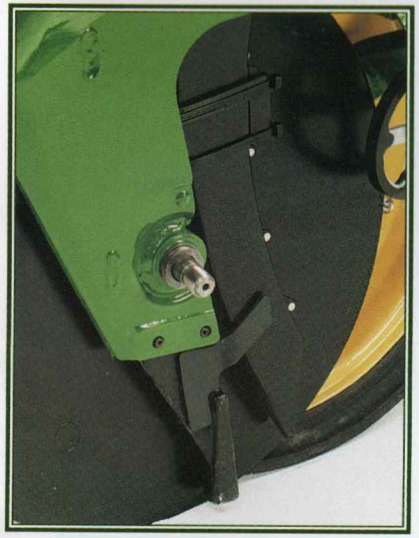
Each Tru-Vee opener slices a narrow, V-shaped furrow, creating a prime environment for seed. The two disk blades easily carve through hard soil and heavy residue. Each seed drops to the bottom of the trench.



The location of gauge wheels is key to their effectiveness in accurate seed-depth placement. Unlike other designs, the John Deere gauge wheel measures furrow depth right where seed lands. Planting depth is easily set with the easy-to-grasp T-handle. Choose from 17 settings in 3/16-inch increments for depths of 5/8-inch to 4 inches.

As the final step of the planting process, angled closing wheels gently firm soil around the seed, without compacting soil directly above. This process eliminates air pockets, avoids crusting, and creates positive seed-to-soil contact. Seed gets the best shot at quick germination for an even stand.

Now, gauge-wheel adjustment is easier than ever. The MaxEmergePlus design eliminates all those troublesome washers — replacing them with a simple screw bushing and attaching bolt. Proper clearance between the gauge wheel and opener disk is critical for seed-furrow formation and disk blade cleaning.



One of many advancements you'll find on the MaxEmergePlus row unit is a seed-tube centering guide for improved accuracy. And since there's less rubbing on disk openers, the seed tube lasts much longer. Snap-in seed tubes have a longer wiring harness for quicker installation, too. Find the seed tube that best fits your planting needs on page 31.

A rugged cast arm keeps closing wheels consistently aligned over the furrow — even in tough, no-till conditions. And now, centering the closing wheels over the furrow takes just two bolts — no cam adjustment necessary. You can also stagger the closing wheels to allow smoother trash flow. Plus, black nylon material on the gauge and closing wheels makes repair easier, and stretches their life.

SEED METERING

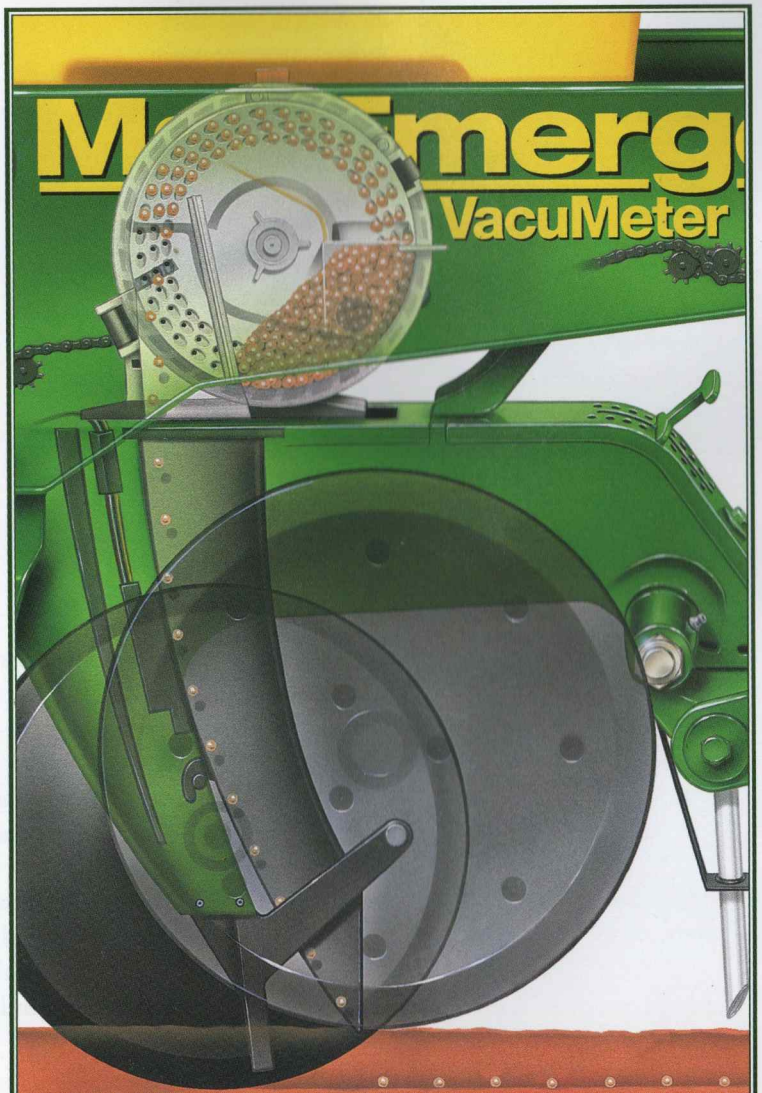
HIGHLY ACCURATE SEED SPACING FROM A SIMPLE, LOW-MAINTENANCE SYSTEM

Simply more-accurate seed spacing in any crop. The John Deere-designed VacuMeter system — standard on all MaxEmerge*Plus* Planters — gently delivers one seed at a time into the furrow, placing each seed with incredible precision. Simplicity of design makes the VacuMeter seed metering system consistently accurate.

Here's how the VacuMeter system works. A hydraulically driven pump creates a consistent vacuum at each row-unit. Seed from the hopper enters the reservoir, and a vacuum gently holds each seed on a rotating disk. Once the seed is positioned above the seed delivery tube, the vacuum is cut off to let each seed drop down the seed tube and into the furrow.

It's a true low-maintenance system. The interchangeable seed disk is the only moving part. And you can switch crops or seed size in less than a minute per row, all without tools.

Your bottom line benefits from even seed spacing and improved population control. Let the VacuMeter system make every seed count.



The VacuMeter system is unlike other air systems for all the right reasons. It doesn't blow seeds into the furrow — instead, a vacuum cut-off point lets seeds drop evenly into the trench. And vacuum is confined to the metering unit, so you don't have to hassle with sealed hoppers.

Field tests have proven the seed-spacing accuracy of the VacuMeter system. Compared to a finger-pickup meter, the VacuMeter system delivers up to 17 percent better seed spacing in corn and 28 percent better in soybeans. For this reason, all MaxEmergePlus Planters come with the VacuMeter seed meter as standard equipment.

Hydraulics are critical for operation of the VacuMeter system, which runs off a closed-center hydraulic system. See your dealer for all the details on hookup, gauges, and operation.

Use This Chart To Select The Best Seed Disks For Your Crops

Crop:	Seed disk:
Corn	
Medium	Standard Corn
Small	Small Corn
Popcorn (large)	Sunflower/Popcorn
Popcorn (small)	Sorghum
Sweet Corn (large)	Large Sweet Corn [1]
Sweet Corn (small)	Small Sweet Corn [1]
Cotton (acid-delinted)	
Drilled	Acid-Delinted Cotton
Hill-Drop	Hill-Drop Cotton [2]
Edible Beans (small)	
Black Turtle, Navy, Pink Viva, Small White	Your dealer can help you match Small Cell, Small Flat, or Medium Flat Edible Bean seed disks to your variety and desired population. [3,4]
Edible Beans (medium)	
Blackeyed Pea, Pinto, Kidney, Lima, Pink, Small Red Mexican, Green Garden	Your dealer can help you match Medium Cell, Large Cell, or Medium and Large Flat Edible Bean seed disks to your variety and desired population. [3,4]
Edible Beans (large)	
Cranberry, Garbanzo, Great Northern, Large Kidney, Large Green Garden	Your dealer can help you match Large Cell or Large Flat Edible Bean seed disks to your variety and desired population. [3,4]
Peanuts	
Runner and Spanish	Large Cell Edible Bean [2]
Virginia	Peanut [2,4]

Crop:	Seed disk:
Peas	
Blackeyed, Smooth, Wrinkled	Your dealer can help you match Small Cell, Small Flat, or Medium Flat seed disks to your variety and desired population. [2,3,4]
Sorghum/Milo	
Regular Rate	Sorghum [5]
High Rate	Sorghum, High Rate
Soybeans	Soybean
Sugarbeets	
Monogerm (small)	Small Sugarbeet [6]
Monogerm (medium)	Sugarbeet
Monogerm (large)	Large Sugarbeet [6]
Pelleted (mini)	Sugarbeet
Pelleted (regular)	Large Sugarbeet [6]
Sunflowers	
Oil #2, #3, #4	Sunflower/Popcorn
Confection (large)	Large Sweet Corn
Confection (small)	Small Sweet Corn
Other Crops	
Vegetable/Melon	Blank seed disk for customized cells.

Choosing the correct seed disk is critical to preventing skips or doubles. You can easily change to another crop or seed size by quickly switching seed disks. Disks are easy to reach and no tools are needed, so conversion takes as little as a minute per row.

Finger-Pickup Meter:
Almost 25 years ago, John Deere introduced the finger-pickup seed meter that revolutionized corn planting. Today, finger-pickup continues to be a very reliable metering system in corn.

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.

(1) Includes knockout assembly; requires double eliminator assembly.
(2) Includes special short-meter-housing brush.
(3) Flat seed disks require upper-seed-tube inserts, double eliminator, knockout assembly, and high-range vacuum gauge.
(4) 10-row and 12-row planters using Virginia Peanut or Flat Edible Bean disks require a dual-vacuum conversion kit.
(5) Includes knockout assembly; seed-tube inserts recommended for low-rate application.
(6) Includes knockout assembly; requires seed tube inserts or small seed tube and runner (without inserts).

MONITORING SYSTEMS

SEEDSTAR MONITOR

AN ADVANCED MONITOR READY FOR PRECISION-FARMING ADVANCEMENTS

Now keep track of more planter functions with an in-cab glance. Introducing a monitoring system so advanced it's ready for the future of precision farming — the *SeedStar monitor with GreenStar™ display*.

The optional SeedStar monitor has all the features of the Computer-Trak 250 monitor and more! You still get row population/spacings, row failure, average population, acre counter, tractor speed, and total acreage. Features include in-cab display of three major planter functions: vacuum level, liquid fertilizer manifold pressure, and a "hopper empty" alert for the 60 Seed Cart.

With its simple menu-based design and handy numeric keypad, the SeedStar monitor redefines "user friendly." Each on-screen page features easy-to-read menus with text describing the options. For your convenience, most operational settings are already loaded into the system.

Ask your John Deere dealer for complete details on the SeedStar monitor and GreenStar precision-farming system products.

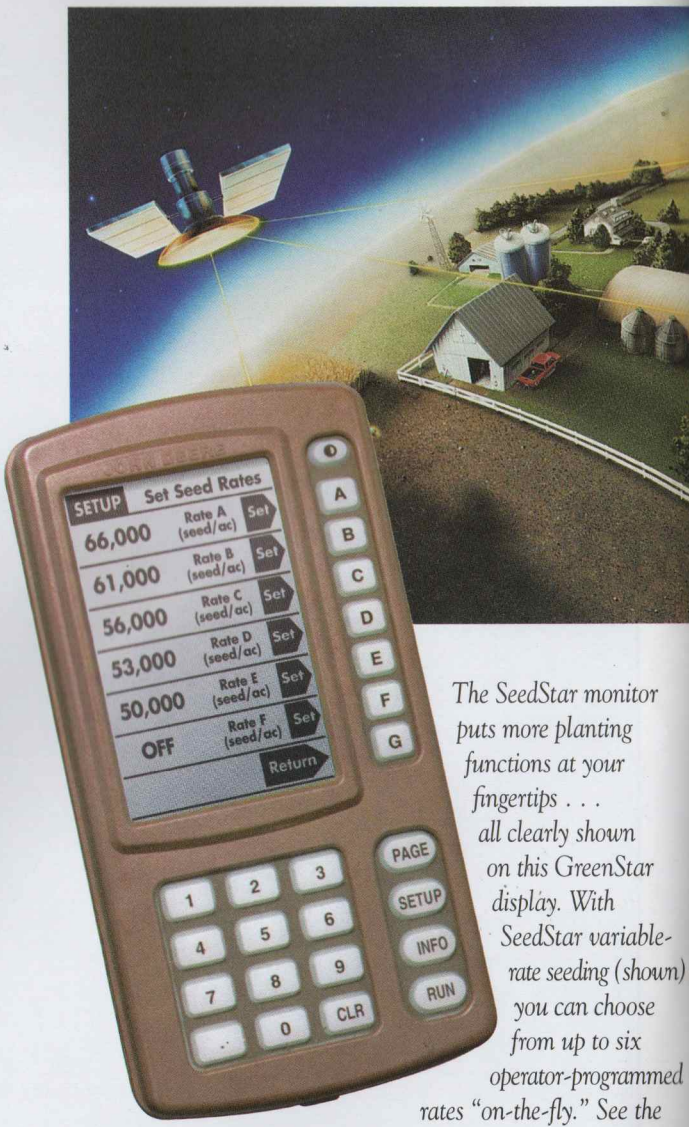
STATE-OF-THE-ART PLANTER CONTROL

SeedStar population monitor — Put more planting functions at your fingertips (see chart on page 11 for all of SeedStar's monitoring capabilities). A frame-mounted population processor uses the same GreenStar display used for all John Deere precision-farming systems. The system consists of the population processor, GreenStar display, wiring harnesses, seed tubes, and sensors. Radar is required.

SeedStar frame control — After adding SeedStar monitoring, a separate frame-mounted processor can be added to control the planter fold and unfold with an in-cab toggle switch. One SCV is all that's required. Frame control components include the processor and in-cab switch. (Standard on the 1780 Planter in 16/31 and 24Row20 configurations.)

SeedStar variable-rate seed control — Select from up to six planting rates on-the-fly. A touch of a button lets you increase or decrease your plant population as you see fit. You input the rates right on the in-cab display. The population monitor, GreenStar display, and radar are needed with this option. With the system you get hydraulic motor(s), a frame-mounted hydraulic-drive processor, wiring harnesses, seed sensors, and switches.

GreenStar map-based seed control — They're coming; planters that automatically adjust their seeding rate as you move through the field. And with SeedStar variable-rate seeding you're almost there. Global positioning systems, software, and processing equipment are all coming. So stay in touch with your John Deere dealer to find out how this space-age technology can work for you.

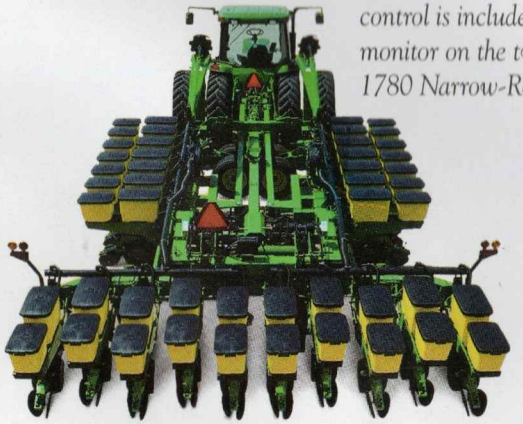


The SeedStar monitor puts more planting functions at your fingertips . . . all clearly shown on this GreenStar display. With SeedStar variable-rate seeding (shown) you can choose from up to six operator-programmed rates "on-the-fly." See the descriptions at left for details.

COMPUTER-TRAK MONITORS

Coming soon — GreenStar map-based seed control. GreenStar technology will let you take the next leap – seeding rates that automatically adjust as you move through the field.

With SeedStar frame control, a frame-mounted processor lets you control the planter's fold/unfold functions with an in-cab toggle switch. Just one SCV lever is all it takes. SeedStar frame control is included with the monitor on the two largest 1780 Narrow-Row Planters.



Feature	SeedStar	250	150
Rate-sensitive alarm	—	—	x
Seed population	x	x	—
Seed spacing	x	x	—
Row failure	x	x	x
Average population	x	x	—
Acre counter (field)	x	x	—
Total acreage	x	x	—
Ground speed	x	x	—
Vacuum level	x	—	—
Liquid fertilizer manifold pressure	x	—	—
60 Seed Cart hopper empty	x	—	—
Self-diagnostics	x	—	—
Menu-based programming	x	—	—
Seed counter (row)	x	—	—
Maximum number of rows	Unlimited	24	12
Skip-row monitoring	x	—	—
Display	L.E.D.	Liquid crystal	Lights
High/low warning	x	x	—
Handy References			
Population charts	x	—	—
Vacuum settings for all disks	x	—	—
Piston pump, liquid fertilizer recommended settings	x	—	—
Compatibility			
SeedStar variable-rate seed control	x	—	—
SeedStar frame-control	x	—	—
GreenStar map-based seed control	x	—	—

The Computer-Trak 250 monitor (above) features an easy-to-read liquid crystal display. It's standard with some larger MaxEmergePlus Planters; available for MaxEmerge 2 and MaxEmerge models. Radar is required.

The Computer-Trak 150 monitor warns you if the sensor does not sense seed. It comes standard on many 4- through 12-row MaxEmergePlus Planters and is compatible with MaxEmerge 2 and MaxEmerge Planters, and 71 Flexi-Planter units.

JOHN DEERE 1750

STANDARD AND CONSERVATION

MAINFRAMES TO MATCH YOUR PLANTING PRACTICE

Conventional to conservation: Choose a frame to fit the full range of residue levels. Whatever your farming practice — from no-till to clean-till — a *1750 MaxEmerge*Plus *Drawn Planter* will meet your planting needs.

Choose the mainframe that best suits your conditions. For planting into tough corn trash and rough seedbeds, the beefy 7x7-inch mainframe of the **1750 Conservation Planter** stands up to the test. It also features a dependable wheel-module lift system.

Outfit the 1750 Conservation Planter with the attachments you need to work in a range of residue levels, as well as hard ground, sticky soil, and rocky fields. A wide selection is available from row-tillage and extra down-force to liquid fertilizer and insecticide applications.

If your fields are mainly conventional- or reduced-till, opt for the 5x7-inch mainframe found on the **1750 Standard Planter**. This economical planter combines the popular drop-axle lift of the MaxEmerge 7000 Planters with the improved strength, accuracy, and convenience of MaxEmerge*Plus* row-units. Check out the specifications on page 38.

Both the Conservation and Standard models of the 1750 Drawn Planter have a simple seed transmission. Choose from 50 rates.

Planting into cornstalks or other heavy residue can really stress a planter's frame. But the massive 7x7-inch mainframe of the 1750 Conservation Planter proves its worth in the toughest field conditions on your farm. Plus, the beefy frame can handle just about any attachment from liquid fertilizer to row markers.

Liquid fertilizer application makes the planting trip even more productive. Each 70-gallon tank feeds two rows with your choice of squeeze pump or piston-pump delivery. Turn to pages 34 and 35 for full details on all fertilizer accessories.

JOHN DEERE 1760

WING-FOLD CONSERVATION

ONE-PASS PRODUCTIVITY WITH THE ECONOMY OF A WING-FOLD

Here's a wing-fold that flexes, fertilizes, and fits your finances. Time is your most valuable commodity, especially in the spring. Weather, maintenance requirements, field conditions — they all impact your ability to get the crop in on time. That's why John Deere offers an exclusive, affordable wing-fold planter that makes the most of your narrow planting window: the 1760 *MaxEmerge*Plus *Wing-Fold Planter*.

Apply liquid fertilizer while you plant. As the first wing-fold planter to successfully incorporate frame-mounted liquid fertilizer tanks, the 1760 lets you do the work of two passes in one. The rugged 7x7-inch frame can easily shoulder the maximum load of 450 gallons without compromising speed or accuracy.

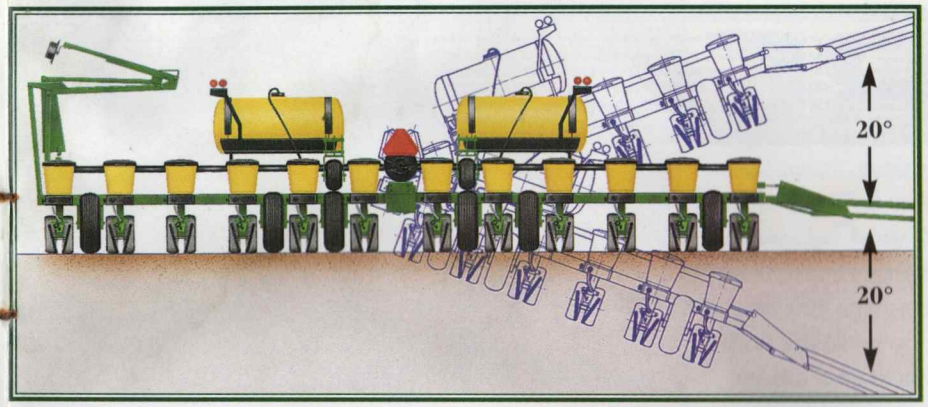
Flex-wing design delivers accurate depth in rambling fields. Massive hinges allow the wings to flex 20 degrees up and 20 degrees down* so the 1760 accurately plants over hills and through swales.

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

**Excluding 8Row30 model.*

Getting the 1760 Planter ready for the field is quick and easy with optional hydraulic fold. Simply unlatch the wings, unfold, and lower; then lock the wings and remove the lockout turnbuckle so the frame can flex. When you're ready to head for the next field, you'll appreciate the 1760's narrow transport profile. Even with fertilizer tanks and row markers, the 12-row model travels at a slender 15-feet 8-inches wide and under 11 feet high. Page 40 has transport dimensions for all models.

The 1760 Wing-Fold Planter is available in 8Row36/38, 8Row30, and 12Row30 models. See page 38 for complete specifications.



If you have hilly terrain, you know the challenge it can pose to uniform planting depth. Now, you can accurately track your rolling ground with the 1760 Planter's flex-wing design. The 8Row36/38 and 12Row30 models flex 20 degrees up and 20 degrees down.

Cover more than 50 acres without stopping. Refills will be the last thing on your mind when you add the 60-bushel Seed-On-Demand Cart to your planting team (see pages 18-19). Hoppers are filled on-the-go, reducing time-consuming refill stops.

Count on this advanced tire-contact drive for consistent liquid fertilizer application. To prevent slippage that can lead to inconsistent metering, it features the industry's widest turf tire with the highest down-force pressure. A separate drive system operates vacuum seed metering.

Heavy-duty tri-fold markers have the industry's best float range (39 inches up and 48 inches down) for a clear sight line in less-than-level fields.

The 1760 Planter is the only wing-fold to feature optional on-board liquid fertilizer tanks. These big-capacity tanks have a low-profile design, which allows clear visibility.

JOHN DEERE 60

SEED CART

SEED-ON-DEMAND . . .
FOR THE PRODUCTIVITY YOU DEMAND

On-the-go seed supply: A simple concept that simplifies your planting. You know the routine. Fill the hoppers . . . climb into the tractor . . . plant 20, maybe 25 acres . . . fill the hoppers again. It's a time-consuming and seemingly never-ending cycle.

Fortunately, we're learning to plant smarter instead of longer. And John Deere is leading the way to more efficient planting with a 60-bushel seed cart that supplies hoppers on the go.

How does it work? It's simple, actually. The hydraulically driven fan (A) provides low-pressure airflow (1 psi) to the manifold and nozzle area (B). Here, seed is picked up and carried through individual seed-hose lines (C).

Once inside the hopper (D), seed builds into "puddles" that restrict airflow and stop seed delivery. As you plant, the seed level lowers to automatically open airflow and deliver more seed. You enjoy a constant seed supply that lets you cover acre after acre with fewer stops to refill.

With an extra 60 bushels in the hoppers, a 12-row planter offers 40 percent more productivity. The 60 Seed Cart is compatible with all models of the 1760 Planter and the 1770 12Row30 Planter.

For extra reliability, the high-efficiency fan is the only moving part of the Seed-On-Demand system.

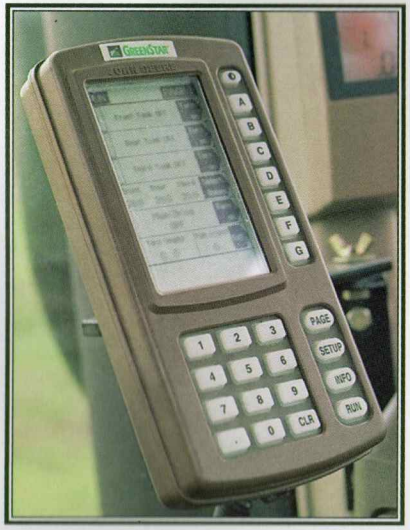
Your seed will appreciate the gentle handling of the Seed-On-Demand system. Airflow pressure is set at 1 psi — just enough to carry seed from the seed cart to the hoppers without costly damage.

The 60 Seed Cart is the ideal partner for a bulk-handling system. Two wide-mouth openings allow you to fill with minimal seed spillage. And a sturdy operator stand with safety railing gives you plenty of freedom to move around during the process.

Hitched right to the planter frame, the 60 Seed Cart rides closely behind the row-units. A wide stance gives it extra stability on hillsides, with less drafting. Individual seed-hose lines route from the center of the planter to a hose intake at the front of each seed hopper.

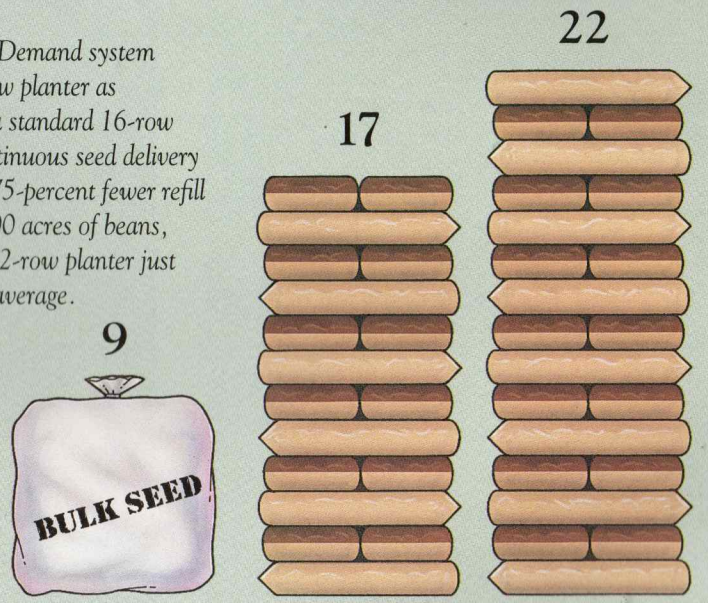
When planter boxes fill, restricted airflow stops seed delivery. When seed volume in the hopper drops, airflow resumes to deliver more seed.

The SeedStar monitoring system keeps a close watch on the status of your 60 Seed Cart. It lets you know when hopper levels are close to empty.



Reduced Refills For Higher Productivity

The Seed-On-Demand system makes a 12-row planter as productive as a standard 16-row machine. Continuous seed delivery means 50- to 75-percent fewer refill stops. Over 500 acres of beans, you'll refill a 12-row planter just nine times on average.



12-row 1760 with 60 Seed Cart

Case 950 12-row

White 6100 12-row

Number of refill stops needed to plant 500 acres of soybeans

JOHN DEERE 1770

FRONT-FOLD CONSERVATION

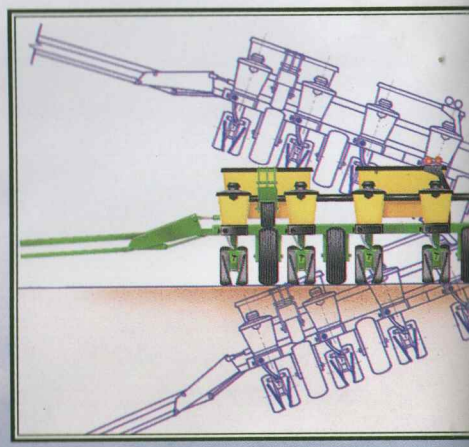
FASTER HYDRAULICS, INCREASED PRODUCTIVITY

Get ready for the highest level of productivity and performance in a folding planter. The *1770 MaxEmerge*Plus *Front-Fold Conservation Planter* has everything you need to help you get the best from your fields.

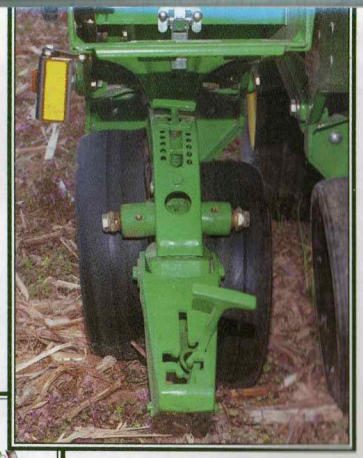
A reliable hydraulic system speeds turnarounds. Being tough and brawny doesn't come at the expense of speed. With one SCV lever, the 1770's hydraulic system raises the entire unit quickly and completely – even when it's fully loaded. Then it lowers into the ground just as quickly and easily. The hydraulic system on the 12Row30 configuration makes it even faster. Not only will you speed up your end-row turns, you'll hit your mark better, avoiding skips and overlaps at end rows. Plus, one lever streamlines folding to make transport quick and trouble-free.

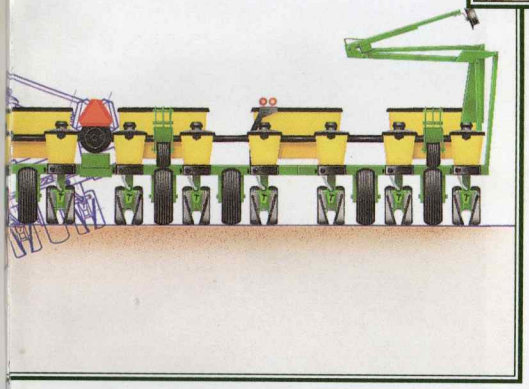
Design the 1770 Planter for the way you farm. You can customize your 1770 specifically for your conditions and planting objectives. Choose a 12-row model with a rigid or flex frame, or a 16- or 24-row flex-folding model. Whichever 1770 Planter and setup best suit your operation, you'll find yourself acres ahead of Mother Nature next spring.

Roll over more rolling acres. The center-flex frame of the 12Row30 Planter allows the 1770's wings to track over slopes and terraces. The wider frames give you 3-section flexibility for consistent planting depth over contours.



These optional walking gauge wheels are recommended if you plant into residue or rocky conditions. One wheel at a time can raise to compensate for soil clods, rootballs, residue clumps, or rocks. See pages 32 and 33 for more options and attachments.





Say good-bye to refill stops and hello to higher productivity. With the 60 Seed Cart, the 1770 12Row30 Planter's hoppers are filled on-the-go for fewer stops. Pages 16 and 17 have more on this productive addition.

Configuration	# of Frame Sections	Cylinder Lift System	Seed Cart Compatibility	Planting Monitor	Drive System
Rigid Frame:					
12Row30	N/A	Series rephasing	Yes	Computer-Trak 150	Tire-contact drive
Flex Frame:					
12Row30	2-section	Series rephasing	Yes	Computer-Trak 150	Tire-contact drive
12Row36	3-section	Electrohydraulic phased	No	Computer-Trak 250	Ground drive
12Row38	3-section	Electrohydraulic phased	No	Computer-Trak 250	Ground drive
16Row30	3-section	Electrohydraulic phased	No	Computer-Trak 250	Ground drive
24Row30	3-section	Electrohydraulic phased	No	Computer-Trak 250	Ground drive

Talk about higher productivity . . . this 24-row 1770 Planter can really chew up your acres. All sizes of the 1770 Front-Fold are available for 30-inch rows. Or, plant 36- or 38-inch rows with a 12-row flex-frame configuration. See specifications on page 38.

JOHN DEERE 1770

UNMATCHED ACCURACY, MORE FLEXIBILITY

In order to get the best crop, you need to get it planted at the right time, at the right depth, with the right spacing. Exactly the reason we made the 1770 Planters more flexible to match the way you farm.

Metering systems provide accurate spacing in any crop. For unbeatable seeding accuracy, our proven VacuMeter seed-metering system comes standard, delivering single-seed precision at faster working speeds in any crop. Or you can choose the finger-pickup meter for your corn and the radial bean meter that is perfect for planting beans.

Liquid or granular fertilizer application gives your seed a boost. Go with frame-mounted tanks for nonstop application of liquid fertilizer. Or apply granular fertilizer from frame-mounted fiberglass hoppers.

The drive system is positively accurate. For uninterrupted accuracy, 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. Other configurations rely on proven direct ground drives.

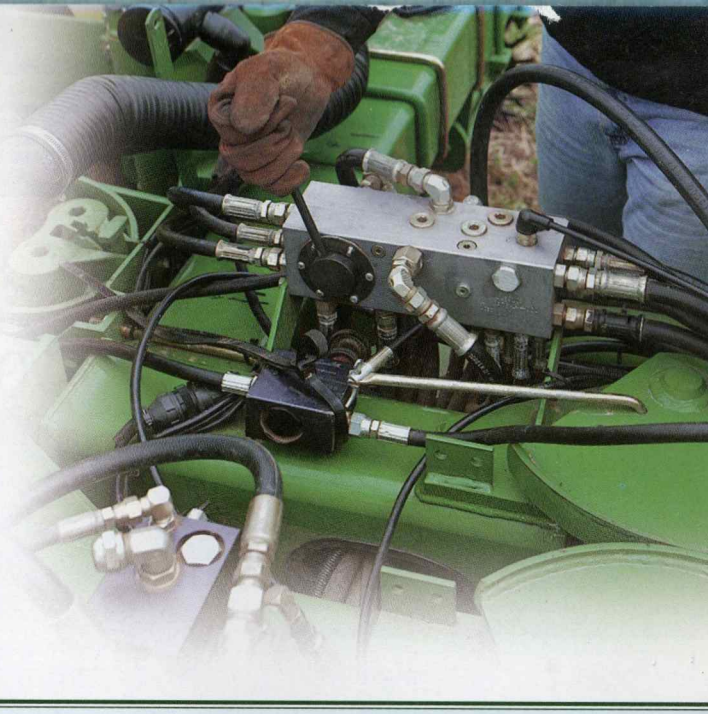
The 12Row30 Planter's tire-contact drive eliminates clutches, countershafts, and manual transport disconnects. An extra-wide turf tire contacts the ground drive tire with 560 pounds of positive force.

The efficiencies of liquid-fertilizer application (optional) also pertain to filling time with the Quik-Fill™ system. Tanks are filled quickly and evenly with a 2-inch-diameter fill line from one convenient location.

The 16-inch adjustable notched blade with 4-inch-wide depth band leaves a clear sight line in all field conditions. Plus, the 12Row30 marker's float range is 39 inches up and 48 inches down with full weight on the disk throughout. And the marker is designed to last longer with an above-frame cylinder and retracted rod when folded . . . all to protect it from soil and residue.

The simplified hydraulic system (on the 12Row30 model) is more reliable than ever. Without electrical solenoids or a master cylinder, the new master/slave rephasing system is simply more dependable.

Compared to a 7200 MaxEmerge 2 Planter, the 1770 Planter's (12Row30 only) raise and lower times are considerably faster . . . helping you get across more acres each day.



Manually latch the transport lock on the 12Row30, and you're on your way. The 12-row wide, 16-row, and 24-row models are locked hydraulically.

The convenience of a front-fold is clear with 12- to 24-row 1770 Planters. All models clear narrow field lanes and gravel roads at approximately 15 feet wide. Plus fold-over markers (tri-fold markers on 12Row30) keep a low profile in the field and on the road — transport height ranges from 10 1/2 to 15 1/2 feet. And for sturdy lifting and transport stability, wheel units have new cast supports, thicker H-frame members, and a larger tire.

JOHN DEERE 1780

NARROW-ROW PLANTERS

PLANT TWO CROPS ON TWO ROW SPACINGS WITH THE SAME PLANTER

A wide choice of configurations for all your planting needs. That's exactly what you get with *1780 MaxEmerge*Plus *Narrow-Row Planters*. Review the chart on the next page to see your row and spacing choices.

Simply lock up every other row-unit and plant your corn in 30- to 38-inch rows. When it's time to plant soybeans, just lower the splitter units. Now you're ready to plant at half the row spacing of your corn.

The splitter units can be raised and lowered by one person using a handy tool that's stored inside the frame. You can switch back and forth between row spacings in just minutes, quickly and easily.

Both crops benefit from a highly accurate VacuMeter seed-metering system, reliable tire-contact drive (not available on all models), and efficient liquid-fertilizer capability. And you plant with all the advantages of in-line row units.

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.*

Only a John Deere 1780 Narrow-Row Planter offers you the advantages of in-line row-units. Other brands' split-row models feature two ranks of row-units. Unfortunately, that design is susceptible to wavering on contours, row-runover from trailing row-units, and refill difficulties. See for yourself the in-line advantages of a John Deere 1780 Planter.

With the industry's widest turf tire and highest down-force, this centrally located drive system provides consistent metering. And for added reliability, drive chains are out of the way of soil and residue.

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.*

Plus, optional low-profile liquid fertilizer tanks allow you to do the work of two passes in one. A separate tire-contact drive operates the piston pump to deliver steady, accurate flow to each opener. See page 34 and 35 for liquid fertilizer accessories.

**Not compatible with granular-chemical hoppers.*

1780 Narrow-Row Planter Configurations

Standard Rows In. (cm)	4 rows 36, 38 (91, 97)	6 rows 30, 36, 38 (76, 91, 97)	8 rows 30 (76)	12 rows 30 (76)	16 rows 22 (56)	16 rows 30 (76)	24 rows 20 (51)
Splitter Rows In. (cm)	9 rows 18, 19 (46, 48)	11 rows 15, 18, 19 (38, 46, 48)	15 rows 15 (38)	23 rows 15 (38)	— — —	31 rows 15 (38)	— — —
Rows with Wheel Skips In. (cm)	7 rows 18, 19 (46, 48)	9 rows 15, 18, 19 (38, 46, 48)	13 rows 15 (38)	— — —	— — —	— — —	— — —

Discover what "user friendly" really means when you switch back and forth between row spacings. In minutes, one person can raise and lower split-row units with the help of a handy tool that's stored inside the frame.

JOHN DEERE 1780

FRONT-FOLD NARROW-ROW

DO DOUBLE-DUTY WITH PINPOINT ACCURACY

This split-row design delivers VacuMeter accuracy in two row spacings. Experience first-hand the accuracy of the VacuMeter seed-metering system on *1780 MaxEmerge*Plus *Narrow-Row Planters.*

Two front-fold models offer convenient fold-and-go transport, even at 23 or 31 rows wide. Plant 12 or 16 rows of a 30-inch crop such as corn, then switch within minutes to put down 23 or 31 rows of 15-inch beans, for example.

Traditional MaxEmerge Planter reliability along with innovative MaxEmerge*Plus* Planter advancements. Get all this productivity and versatility with top-of-the-line John Deere features — slicing Tru-Vee openers, proven VacuMeter system accuracy, rugged 7x7-inch mainframes, and reliable tire-contact drive.

When you're ready for the double-duty productivity of a split-row planter in your dual-crop operation, check out the 1780 MaxEmerge*Plus* Narrow-Row Planters.
Page 38 has full specifications.

You'll save time and trouble in transport, too. One SCV lever lets you fold and go without leaving the comfort of your tractor seat. Both the 12/23-row and 16/31-row 1780 Planters travel at less than 18 feet wide and just 11 feet high.

The double-duty 16/31-row 1780 (left) gives you 16 rows on 30-inch spacing and 31 rows on 15 inches.

Now available, this 16-row 22-inch 1780 Planter is a perfect fit for many sugarbeet and edible bean growers. SeedStar variable-rate seed drive is standard (see page 10).

Here's some required reading for anyone considering narrow-row corn. This new brochure is packed with information to help you decide if narrow rows are right for you. Ask your dealer for brochure DKA137 to help you narrow down your options.

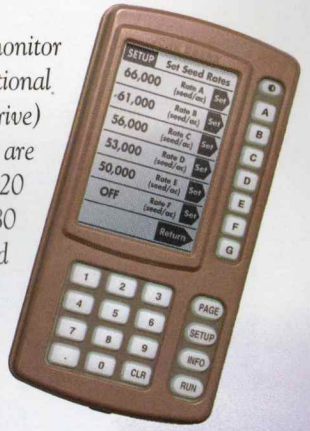
PLANTERS BUILT SPECIFICALLY FOR THE WAY YOU FARM

Get the width and row spacing that's right for you . . . right from the factory. With 65 planter configurations today, and more on the way, John Deere is quickly filling the needs of growers from every region, for most every crop. *Here are two recent additions for specific markets:*

New for edible beans, sugarbeet growers: the new 16-row, 22-inch front-folding planter is the complete planter for many edible bean and sugarbeet growers. You get all the precision required by crops such as sugarbeets. And the VacuMeter system is the perfect answer for these crops. Plus, SeedStar variable-rate seed drive is standard equipment.

For narrow-row corn: plant 24 rows of 20-inch corn with the 1780 24row20 Planter. You'll cover your acres in the blink of an eye. Wings flex up and down to closely follow contours for uniform seed depth. And no-till toughness and single-seed accuracy gets seed in the ideal environment for quick germination.

The SeedStar monitor (shown with optional variable–rate seed drive) and frame control are standard on the 24Row20 and 16/31-row 1780 Planters. Now, fold and unfold the 1780 with just one SCV lever. *Turn to page 10 for full details.*



JOHN DEERE INTEGRALS

MAXEMERGE*PLUS* PLANTERS

THE PERFECT PLANTER FOR COTTON, PEANUTS, AND SO MUCH MORE

Uniformly loved by growers everywhere.
What makes a *MaxEmerge*Plus *Integral Planter* so perfect? The integral design and economical rigid frame are two great reasons that quickly come to mind.

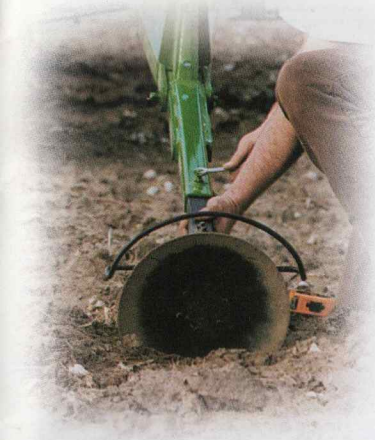
Another important feature is VacuMeter seed selection. With its incredible precision, the VacuMeter system makes perfect sense for planting Bt cotton. After all, Bt cotton is a major investment, offering major potential. And a MaxEmerge*Plus* Integral Planter is the best way to maximize your returns.

Choose seed disks to match your cotton planting practice. Go with the special hill-drop disk to select four seeds for evenly spaced hills, or the standard cotton disk that selects one seed at a time.

And your planter decision gets even easier with the new MaxEmerge*Plus* row-unit and its latest advancements for precise chemical application. The Chemical-Saver metering system and "Y" chemical bander deliver exact rates of today's low-rate chemicals. Ask your John Deere dealer about other specifics to make your planting simpler and more productive.

JOHN DEERE 1700

RIGID INTEGRAL



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 on page 32 and closing attachments on page 33.

CROP VERSATILITY WITH PICK-UP-AND-GO MOBILITY

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

You can work wide or narrow . . . whatever crop you plant, it'll benefit from uniform VacuMeter seed spacing.

Plus, 3-point-hitch mounting offers almost instant mobility for convenient maneuvering and traveling from field to field. And 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, reliable seed drive, and accurate VacuMeter system give you season after season of dependable planting performance. Review the specifications on page 39.

JOHN DEERE 1710

VERTICAL-FOLD

ECONOMY AND CONVENIENCE IN A VERTICAL-FOLD PACKAGE

Lift and go in minutes with this folding integral.

For simplicity and economy in a folding integral planter, you won't find any other that compares to a *1710 MaxEmerge*Plus *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. The vertical-fold design allows the 8-row 1710 to travel less than 19 feet wide. See page 40 for transport dimensions.

Choose an 8-row model on 36, 38, or 40 inches or plant on 30-inch spacing with the 12-row. Get 3-section field flexibility to maintain accurate seed depth over rolling ground and terraces. Wings flex 8 degrees up and 6½ degrees down on both 1710 models.

On flat land or beds, lock the wings in 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. Review page 39 for full specifications.

For easy transport, this 8-row 1710 Vertical-Fold Planter travels at just 18-feet 10-inches wide and 12-feet 2-inches high when folded. The 12Row30 measures 20-feet 6-inches wide and 13 feet high.

A variety of herbicide, insecticide, and chemical application attachments are available for the 1710 Vertical-Fold Planter (see pages 34-37). Check with your dealer to see if you need the extra lift and stability of optional lift-assist wheels.

JOHN DEERE 1720

STACK-FOLD

Trust two 4x24x1 3/4-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-arm 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.

THE ADVANTAGES UNFOLD ACROSS THE FIELD... THEN STACK-UP DOWN THE ROAD

No need to empty hoppers for transport. For wide planting with a stack-fold's narrow transport, you need to see the *1720 MaxEmerge*Plus *Stack-Fold Planter* in action.

Productive planting and easy transport. Cover your fields in a hurry with a productive 8, 10, or 12 rows per pass. And with tight planting windows, you can't afford to let field-to-field transport slow down your pace. Simply fold the wings hydraulically over-center for on-the-road travel. See page 40 for transport dimensions on all 1720 Planters.

And here's where the stack-fold design saves you even more time and trouble — boxes stay upright in transport, so you don't have to empty hoppers each time you move.

Choose a 1720 Stack-Fold in 8-, 10-, or 12-row models. The 8-row plants 36-, 38-, or 40-inch rows with a rigid or flex frame. And the 10-row is available on wide row spacings with a rigid frame — an ideal partner for a 5-row John Deere 9965 Cotton Picker. Or, choose a 12-row rigid- or flex-frame on 30-inch rows or a 12-row rigid-frame on wide spacings. Look over all the specifications on page 39.

JOHN DEERE 1730

NARROW-ROW INTEGRAL

GET NARROW-ROW ADVANTAGES WITH PICK-UP-AND-GO CONVENIENCE

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

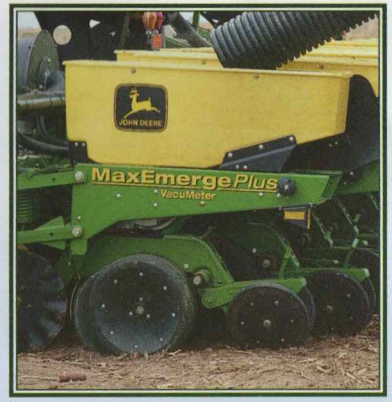
Plant 6 or 8 rows of one crop on 30, 36, 38, or 40 inches; then lower the "splitter" row units to plant 11 or 15 rows at half the row spacing. Or with wheel skips, you'd have a 9- or 13-row planter. To help keep soil and residue flowing through, splitter units are set back 7 inches on extra-long parallel 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 sugarbeets? 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 INTEGRAL PLANTER CONFIGURATIONS

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



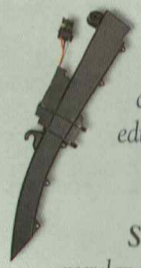
This 3-bushel fiberglass seed hopper increases capacity, yet maintains a narrow design for narrow-row planting. Use it in standard row spacing or with splitter units and long parallel arms that offset every other row unit.

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.

SPECIALTY CROP OPTIONS

SEED DISKS, SEED TUBES, VACUUM GAUGES, AND MORE

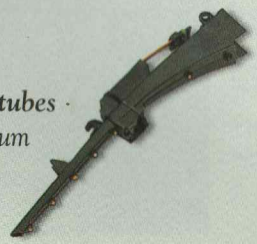
A glance from the tractor seat and this vacuum gauge reassures you all is well with the seed metering system. Depending on your crop, choose a vacuum gauge for low, standard, or high pressure ranging from zero to 30 inches. With a 12-row planter and certain seed disks, you may need two vacuum pumps (shown) to achieve adequate levels.



Regular, curved seed tubes *are recommended for corn, soybeans, acid-delinted cotton, sorghum, small edible beans, and other seeds.*

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.*

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



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

ADAPT YOUR PLANTER FOR CROPS AS DIFFERENT AS POPCORN AND PEANUTS

Plant any crop — from sugarbeets to Spanish peanuts, pinto beans to popcorn, sorghum to sunflower, and more. With a wide variety of options, John Deere makes it easy to tailor your planter to any specialty crop. Get top performance from your MaxEmerge*Plus* Planter with customized vacuum seed metering.

Your dealer can help you match seed disks . . . three disks for sugarbeets, three more for sunflower, a wide choice for dry beans and peas, even a blank disk you can adapt for vegetables or vine crops. See the selection chart on page 9.

Place seeds exactly where you want them with a choice of four shapes of seed tubes. Each snap-in seed tube comes with or without sensors for monitoring.

Adjust your VacuMeter system for optimum performance in specialty crops with a choice of brushes, baffle positions, and gauges.

Work with your dealer to determine the best setup for the results you want.

Here are two more ways to customize the VacuMeter system to your crops: *Replace the regular brush with a short brush when planting medium and large edible beans, peanuts, or hill-drop cotton.*

You can also set the vacuum-meter baffle in two positions. Use the upper position for large seeds such as corn, soybeans, cotton, and peanuts; the lower position for sugarbeets, sorghum, oil sunflower, and popcorn. Both adjustments can be made without tools.

PLANTER ATTACHMENTS

ROW TILLAGE, CLOSING SYSTEMS, AND MORE

CUSTOMIZE YOUR MAXEMERGE*PLUS* PLANTER TO YOUR CONDITIONS

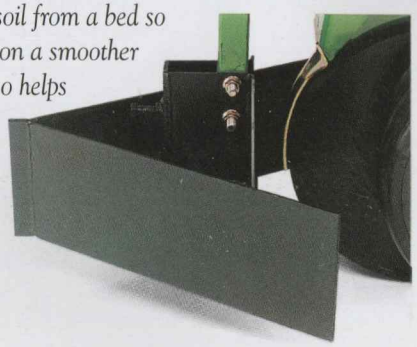
Fine-tune your planter's performance for any level of residue. Match your planting conditions to a tee with a customized MaxEmerge*Plus* Planter. A full range of attachments and accessories allow you to tailor your planter to your specific soil types and residue levels . . . from no-till corn trash to sticky gumbo and everything in between.

To learn more about how to adapt your planter to match your fields, ask your John Deere dealer for this brochure: DKA139, "PLANTER ATTACHMENTS AND ACCESSORIES."

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. Include parallel arms, special mounting bracket, and adjustable down-force springs. Compatible with bubble coulters. Remember: Never set coulters to run deeper than openers.

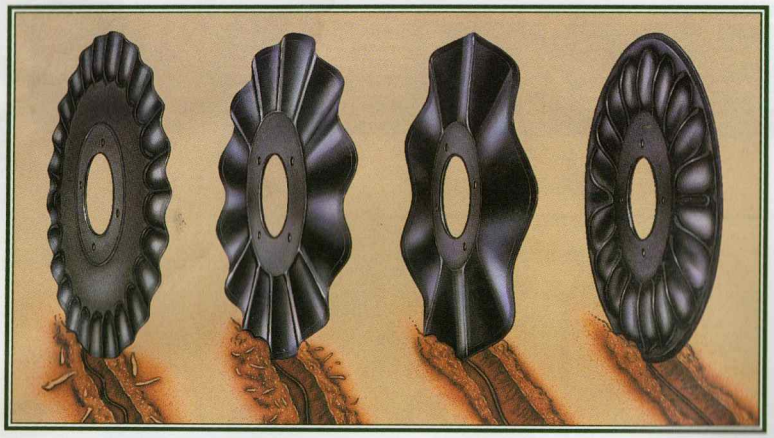
Get the best of both worlds with this coulter/row-cleaner combination. Row cleaners lead the way to clear residue from the path of Tru-Vee openers. This helps soil warm up faster, reduces hairpinning of residue, and prevents residue toxins from entering the root zone. The coulter blade is positioned in 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.

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.



Give Tru-Vee openers a smooth path by sweeping residue clear with this unit-mounted row cleaner. The 1/4-inch wheel works best in most conditions. Only in very tough, rocky conditions is the 3/8-inch wheel needed. The unit is fully adjustable — raise it completely out of action or set wheels to interlock.

Conservation disk furrowers can be used in tilled soil to move dry soil and trash to each side. This clears the path for openers to plant into moist soil. Choose two 13-inch solid blades or a cutout leading blade (left) for more 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. Shown from left to right:

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.*

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.*

8-Wave (1-inch): *Offers less soil disturbance and a 1 1/4-inch-wide trench at speeds above 5 1/2 miles per hour.*

Bubble: *Tills more aggressively as bubbles enter the seedbed zone. Opens a 1-inch-wide slot. Penetrates soil and cuts through residue well. Tends to work well in wet and sandy soil.*

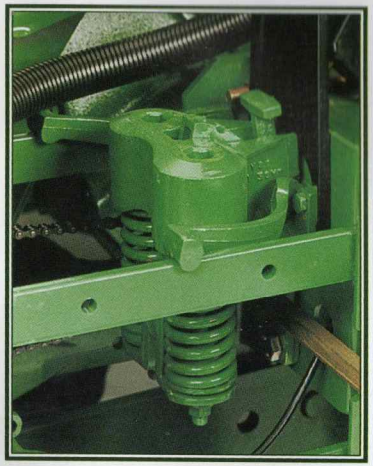
Positive seed-to-soil contact is critical for quick germination. John Deere offers a full selection of closing systems to match your crops and soil conditions.

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.*

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.*



Choose from three down-force systems to keep your row-units from bouncing in rough seedbeds:

For heavy residue or tough soil *and higher ground speeds, you need the heavy-duty, adjustable springs (left) with a choice of four settings: 0, 125, 250, or 400 pounds of down-force per row. You can make adjustments without tools as your soil and residue conditions change from field to field.*

In conventional-till fields *or for planting above 5 miles per hour, consider nonadjustable springs (not shown). Single springs apply up to 90 pounds of down-force, while double springs offer up to 180 pounds per row.*

The optional pneumatic down-force system *offers a centralized location for quick, easy adjustment for all row-units. To closely match your specific conditions, this system of down-force 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. This pneumatic down-force system also controls all splitter row-units on 1780 Narrow-Row Planters.*

JUMP START YOUR CROPS WITH ONE-PASS PRODUCTIVITY

Enjoy big capacity, efficient filling, and accurate application. Make fertilizer application a convenient, one-trip process. Whether applying liquid or dry fertilizer while planting into conventional-, mulch-, or no-till fields . . . John Deere offers a complete system tailored to your needs.

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. For more acres between refills, 1760 (12-row models), 12Row30 1770, and select 1780 Planters have two low-profile tanks with a total capacity of 450 gallons. The 8-row 1760's two tanks hold 300 gallons. Other MaxEmerge*Plus* Planters feature one 70-gallon tank for two rows.

Quik-Fill system reduces refill time. An auger speeds filling of dry fertilizer hoppers, and one convenient location saves liquid-fertilizer fill time.

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

Each hopper holds about 550 pounds of dry fertilizer for longer intervals between filling. The lid opens wide for fast filling with minimum spillage. And the entire hopper pivots for easy dumping and cleaning. Drives and transmissions are included — choose from 25 transmission rates, depending on the auger chosen (low-, regular-, or high-rate). A Quik-Fill loading auger makes hopper filling go faster.

The Quik-Fill option gives you easy, one-point filling. A ball check valve with overflow tube on each tank cap minimizes overflow when you're filling or planting on hillsides.

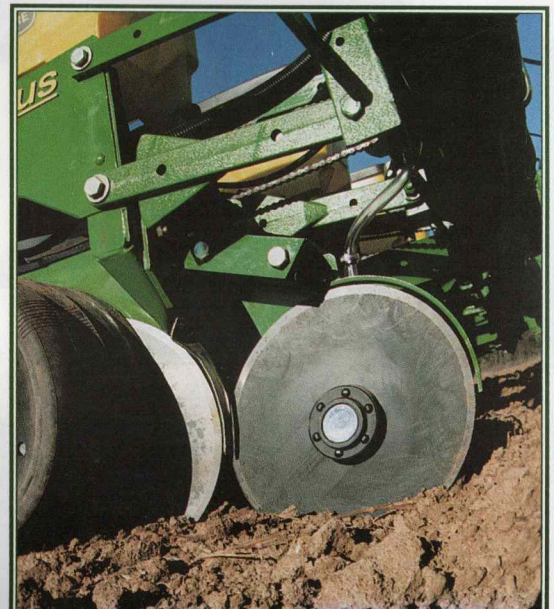
Big-capacity liquid fertilizer tanks let you cover more acres between refill stops. Two 225-gallon frame-mounted tanks (above) serve select 1760, 1770, and 1780 Planters. The low-profile design offers better visibility. Other planter models have one 70-gallon tank (below) dedicated to two rows.

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

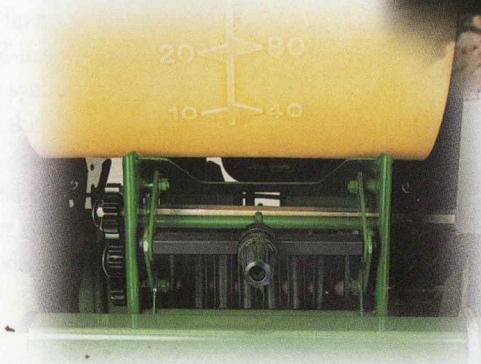
The single-disk fertilizer opener works well for most no-till, double-crop, and reduced-till fields, plus firm-soil conventional seedbeds. A 13-inch rubber wheel gauges depth and minimizes soil disruption. Choose a regular or cast spout. The cast spout (shown) is recommended for loose, dry soil conditions because it keeps soil from flowing into the furrow before fertilizer is delivered.

For surface application of dry fertilizer, these brackets replace disk openers. This is recommended for hard-to-penetrate seedbeds.

This single-piston, variable-stroke pump provides uniform application of liquid fertilizer. Positive displacement produces an accurate delivery rate of 1.9 to 38 gallons per acre. Your application rate does not depend on ground speed and is not affected by the viscosity of the fertilizer solution.



Unit-mounted double-disk openers for liquid fertilizer disturb less soil than frame-mounted openers. A 6-degree blade angle opens the soil for fertilizer placement even with seed depth or one inch below. The opener can be positioned 1 3/4, 2, or 2 1/4 inches off the row. Suggested for conventional and reduced-till fields, and some light no-till conditions.



Another option is John Deere's consistent, reliable squeeze pump.

ADVANCEMENTS PROTECT BOTH YOU AND YOUR CROP

One-pass herbicide and/or insecticide application . . . convenience at its best.

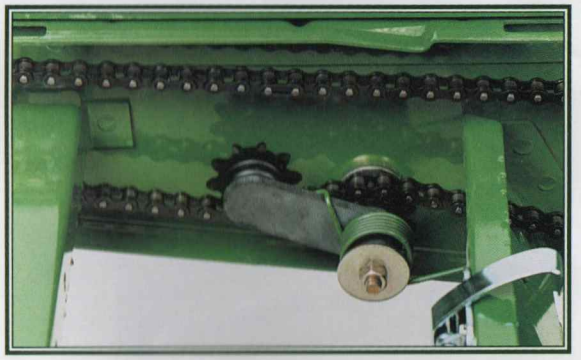
Make each planting pass more productive by applying herbicide and/or insecticide in the same trip. John Deere offers a full selection of chemical-application options to fit the way you farm.

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.

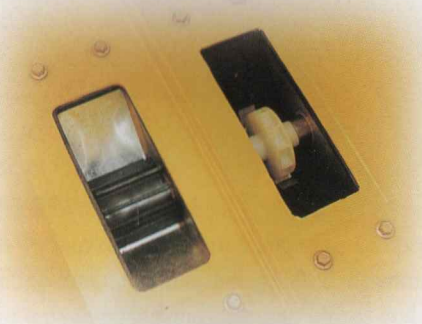
The drive system automatically engages and disengages for each hopper. And a single-pitch chain and sprocket idlers provide smooth, reliable metering.

The options mentioned here are just a sampling. You can find details on all attachments available in a separate "Planter Attachments" brochure. Ask your John Deere dealer for a copy.

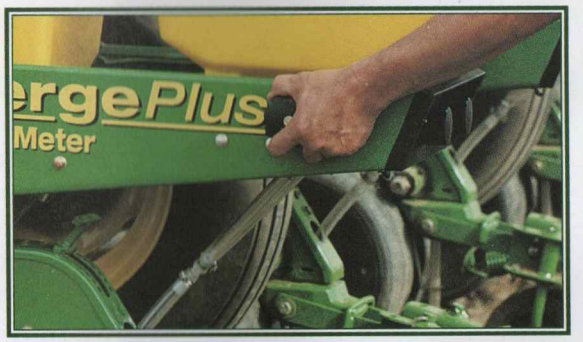
Drives run smoother with spring-loaded sprocket idlers. Instead of skid-chain tighteners, these sprocket idlers keep seed and chemical drives operating smoothly. And idler wear is reduced for longer life.



Chemical application can be critical to the success or failure of your crop. Apply insecticide and herbicide at the same time, or put down one or the other. An adjustable orifice in the chemical meter determines material delivery. Large, detented knobs with easy-to-read digits make it easy to quickly set the rate you want.



Cut chemical costs with efficient metering. Available on all MaxEmergePlus Planters, the new Chemical-Saver meter roller (above, right) reduces leakage when turning and in transport. Apply herbicide and insecticide at rates of 8 ounces or less per 1,000 feet, which covers more than 95 percent of the chemicals currently used. If higher rates are needed, use the black fluted roller (above, left).

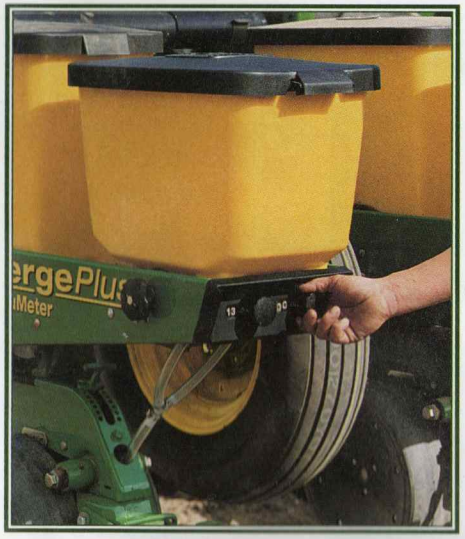


A unique drive system easily engages and disengages for each hopper. If chemical application isn't desired, just disengage the drive manually with this easy-to-reach, push/pull knob.

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.

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

A new L-shaped bracket (right) 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.



An innovative system protects you from insecticide dust and granules. John Deere offers this Lid-Fill Closed Handling System for greater safety with insecticide application — a unique set of valves significantly reduces exposure. When the transfer valve on the returnable chemical container is coupled to the mating valve on the John Deere hopper lid, both valves open automatically. Insecticide simply gravity-flows into the hopper. When you remove the chemical container, both valves close to reseal the container and the hopper.*

**Lid-Fill Closed Handling System works exclusively with insecticides sold in special returnable containers marketed by the American Cyanamid and Rhône-Poulenc companies.*

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.

MaxEmerge*Plus* Drawn Planter Specifications

(Specifications and design subject to change without notice)

	1750 Standard	1750 Conservation	1760 Wing-Fold Conservation	1770 Front-Fold Conservation	1780 Rigid Narrow-Row	1780 Front-Fold Narrow-Row
Configurations: W = 36 or 38 in. N = 30 in.	4 rows (W) 4, 6 rows (N)	4, 6 rows (W) 4, 6, 8 rows (N)	8 rows (W) 8, 12 rows (N)	12 rows (W) 12, 16, 24 rows (N)	4/9, 6/11 rows (W) 6/11, 8/15 rows (N)	12/23 rows (N) 16/31 rows (N) 16 rows (22 in.) 24 rows (20 in.)
Frame Type Mainframe Size	Rigid 5x7 in. (127x177 mm)	Rigid 7x7 in. (177x177 mm)	Rigid; Flex (opt.)[1] 7x7 in. (177x177 mm)	Flex; Rigid[2] 7x7 in. (177x177 mm)	Rigid 7x7 in. (177x177 mm)	Flex 7x7 in. (177x177 mm)
Flexibility	None	None	2-section 20° up, 20° down[1]	2-section (12N) 3-section	None	2-section (12/23, 16Row22)[3] 3-section (16/31, 24Row20)[3]
Lift System	Drop axle	Wheel module	Wheel module	Wheel module	Drop axle	Wheel module
Hydraulic Control	None	Series rephasing; master cylinder	Master/slave rephasing pairs	(see chart on page 13)	Hooked parallel to drop axle	Electrohydraulic series rephasing
Fold	None	None	Manual; hydraulic (opt.)	Hydraulic fold with: Manual lock (12Row30) Hydraulic lock (others)	None	Hydraulic; SeedStar frame control[4]
Drive Type	Single-pitch, chain	Single-pitch, chain	Tire-contact	Tire-contact (12N), single-pitch	Tire-contact	Tire-contact SeedStar variable-rate[5]
Drive Disconnect	Yes	Yes	Automatic	Yes[2]	Automatic	Automatic
Number of Drive Wheels	2 (4-row); 4 (6-row)	4 (6Row36/38); 2 (all others)	1 for seed; 1 for liquid fertilizer (opt.)	2 for seed; 1 for fertilizer (opt.)	1 for seed; 1 for fertilizer (opt.)	1 for seed; 1 for liquid fertilizer (opt.)[6]

1 – Flex-frame optional on 8Row36/38 and 12Row30 only.

2 – 12Row30 available in 2-section rigid or flex frame. Drive disconnect is automatic.

3 – 12/23 and 16Row22 flex 4° up, 8° down. 16/31 and 24Row20 flex 10° up, 8° down.

4 – SeedStar frame control standard on 16/31 and 24Row20 only.

5 – SeedStar variable-rate seed drive standard on 16Row22 only.

6 – 16/31 and 24Row20 have two seed drives. Fertilizer not available.

Turn to page 40 for transport dimensions.

MaxEmergePlus Integral Planter Specifications

(Specifications and design subject to change without notice)

	1700 Rigid	1710 Vertical-Fold	1720 Stack-Fold	1730 Narrow-Row
Configurations: W = 36, 38, or 40 in. N = 30 in.	4, 6, 8 rows (W) 6, 8, 10 rows (N)	8 rows (W) 12 rows (N)	8, 10, 12 rows (W) 12 rows (N)	6/11, 8/15 rows (W) 6/11, 8/15 rows (N) 12 rows (22 in.)
Frame Type	Rigid 7x7 in. (177x177 mm)	Vertical-Fold 7x7 in. (177x177 mm)	Stack-Fold: Rigid, Flex[1] 7x7 in. (177x177 mm)	Rigid 7x7 in. (177x177 mm)
Flexibility	None	3-section 8° up, 6.5° down	3-section[1] 5° up, 5° down	None
Hitch and Lift System	Cat. 2 with or without Quik-Coupler; Cat. 3 with Quik-Coupler	Cat. 2 with or without Quik-Coupler; Cat. 3 with Quik-Coupler	Cat. 3 with Quik-Coupler	Cat. 2 with or without Quik-Coupler; Cat. 3 with Quik-Coupler
Fold	None	Hydraulic vertical wing-fold with manual locks	Hydraulic over-center stack-fold	None
Seed Transmissions (single-pitch drive)	One rear-mounted	One rear-mounted	One rear-mounted	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	Arched

1 – 3-section flex-frame on 8Row36/38/40 and 12Row30 only.

Turn to page 40 for transport dimensions.

TRANSPORT DIMENSIONS*

(SPECIFICATIONS AND DESIGN SUBJECT TO CHANGE WITHOUT NOTICE)

MAXEMERGEPLUS DRAWN PLANTERS

MODEL	WIDTH	HEIGHT
1750 DRAWN STANDARD		
4-row (30 in.)	13 ft. 3 in. (4.1 m)	7 ft. (2.1 m)
4-row (36, 38 in.)	13 ft. 3 in. (4.1 m)	10 ft. (3.0 m)
6-row (30 in.)	15 ft. 9 in. (4.8 m)	11 ft. 1 in. (3.4 m)
1750 DRAWN CONSERVATION		
4-row (30 in.)	13 ft. 10 in. (4.2 m)	9 ft. 4 in. (2.8 m)
4-row (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)
6-row (36, 38 in.)	21 ft. (6.4 m)	9 ft. 6 in. (2.9 m)
8-row (30 in.)	21 ft. (6.4 m)	9 ft. 6 in. (2.9 m)
1760 WING-FOLD CONSERVATION		
8-row (30 in.)	15 ft. 8 in. (4.8 m)	10 ft. 1 in. (3.1 m)
8-row (36, 38 in.)	15 ft. 8 in. (4.8 m)	10 ft. 1 in. (3.1 m)
12-row (30 in.)	15 ft. 8 in. (4.8 m)	10 ft. 8 in. (3.3 m)
1770 FRONT-FOLD CONSERVATION		
12-row (30 in.)	15 ft. 2 in. (4.6 m)	10 ft. 6 in. (3.5 m)
12-row (36, 38 in.)	15 ft. (4.6 m)	11 ft. 4 in. (3.5 m)
16-row (30 in.)	15 ft. (4.6 m)	11 ft. 4 in. (3.5 m)
24-row (30 in.)	15 ft. 3 in. (4.6 m)	15 ft. 6 in. (4.7 m)
1780 RIGID NARROW-ROW		
4/9-row (36/18, 38/19 in.)	16 ft. 3 in. (5.0 m)	9 ft. 3 in. (2.8 m)
6/11-row (30/15 in.)	16 ft. 3 in. (5.0 m)	11 ft. 5 in. (3.5 m)
6/11-row (36/18, 38/19 in.)	23 ft. 9 in. (7.2 m)	9 ft. 6 in. (2.9 m)
8/15-row (30/15 in.)	22 ft. 10 in. (7.0 m)	9 ft. 6 in. (2.9 m)
1780 FRONT-FOLD NARROW-ROW		
12/23-row (30/15 in.)	17 ft. 9 in. (5.4 m)	11 ft. (3.4 m)
16/31-row (30/15 in.)	17 ft. 9 in. (5.4 m)	11 ft. (3.4 m)
16-row (22 in.)	15 ft. 11 in. (4.9 m)	11 ft. 3 in. (3.4 m)
24-row (20 in.)	16 ft. 7 in. (5.1 m)	11 ft. (3.4 m)

MAXEMERGEPLUS INTEGRAL PLANTERS

MODEL	WIDTH	HEIGHT
1700 RIGID INTEGRAL		
4-row (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		
8-row (36, 38, 40 in.)	18 ft. 10 in. (5.7 m)	12 ft. 2 in. (3.7 m)
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)
10-row (36 in.)	19 ft. 6 in. (5.9 m)	13 ft. 3 in. (4.0 m)
10-row (38, 40 in.)	20 ft. 6 in. (6.3 m)	13 ft. 3 in. (4.0 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. (4.0 m)
12-row (38, 40 in.)	23 ft. 8 in. (7.3 m)	13 ft. 3 in. (4.0 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)

*With row markers.

JOHN DEERE

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