

When every hour counts...count on your John Deere dealer



BOX DRILLS



Three days. That's all you need to finish planting. Except rain is in the forecast. And now something's wrong with your equipment.

It's the scenario you hope never occurs on your operation. But if it does, your John Deere dealer is ready to help.



No, he can't control the weather, but he can keep your planting and seeding equipment (not to mention the tractors that pull them) in top working condition when every hour counts.

Whether it's having the parts you need on hand for minor repairs, or having a well-

trained, experienced technician available for more serious problems, your dealer is committed to providing the service you need, when and where you need it.



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www.JohnDeere.com/Ag

BD11 SERIES, 455, 1520, 1570, 1590

There is a perfect John Deere drill for your operation. Here's how to find it.

More than 140 years ago, the first grain drill was sold. Although there have been substantial product improvements since then, the reason for using a drill hasn't changed: it's a reliable, effective way of getting seed into the ground quickly.

Today, nobody makes a better box drill than John Deere. Nor does anyone manufacture a more complete line of drills. Whether you're drilling row crops, small grains, or grasses, we have a tool to meet your needs.

But with a variety of drills to choose from, how do you pick the right one? You can start by answering the simple questions at right. Then, see the seeding pros at your John Deere dealership for expert assistance in finalizing your choice.

Opener Down-pressure

MODEL	MAX. DOWN PRESSURE (LBS.)
BD11 Dual disk	124
455 Dual disk	190
1590	425

For more information, see your John Deere dealer or go online to www.JohnDeere.com/Ag.

1. What crops are you drilling?

If you want to use a drill for row crops, consider the 1590 No-till Drill. When ordered with the front-rank lock-up option, the 1590's 7.5- or 10-inch spacing converts to 15- or 20-inch spacing.

If small grains or grasses are your intended crops, the 1590 No-till Drill, the 1520 Drill, the BD11 End-wheel Drill, or the 455 Folding Drill are good choices. The 1590 can be equipped with a grass-seed attachment for drilling on 7.5- or 10-inch rows. The other drills each can be ordered on 6-, 7.5-, or 10-inch spacing.

2. What are your residue levels?

Whether you're working in fields with lots of corn or wheat stubble or just a little, John Deere has a drill for you. That's because a drill's residue-handling capabilities largely rest on its opener (see "Different openers, different results" on the next page). As its name indicates, the 1590 No-till Drill is equipped with a single-disk opener that offers



two big advantages in conservation applications: 1) It effectively slices through heavy residue to place seed into an environment favorable to germination and growth, and 2) It provides minimal soil disturbance so that you can remain within accepted no-till parameters, even in narrow row spacings, and still seed effectively in residue-laden fields.

However, this same opener works equally well in well-prepared seedbeds.

In fields where most or all of the residue has been buried or sized and incorporated by tillage applications, the BD11 and 455 Drills are good choices. Their openers are suited more for min-till or conventional-till conditions.

3. How important is seed spacing?

The drills in the John Deere product line-up feature the proven fluted feed-cup meter, which has been relied upon for years to provide consistent populations in both soybean and small-grains fields. You'll get the consistent population you demand.

4. How critical is consistent depth control?

If you're planting soybeans, canola, or even alfalfa, it's essential to maintain exact depth control for maximum emergence potential. That's why the John Deere 1590 drill has a depth-gauging wheel located right where the seed enters the soil. The BD11 Series, when outfitted with double-disk openers, also has a Tru-Vee attachment that gives planter-type depth control.

All other drills are available with depth-gauging wheels that trail behind the opener. Most of these wheels do double duty by providing consistent depth control, as well as firming seed into the furrow.

Different openers, different results

When choosing a new drill, consider its opener style. Each is designed for use in specific conditions. Use this summary to determine which opener is best for your fields.

No-till single-disk opener

- Uses an 18-inch disk mounted at a 7-degree angle for aggressiveness
- Designed to work equally well in no-till and conventional-till fields
- Active hydraulic down-pressure provides up to 450 pounds of pressure per opener, or can be set at zero for tilled fields
- Features a durable, one-piece seedboot
- Available on the 1590 No-till Drill

Offset double-disk opener

- Uses 13.5-inch disks offset a quarter-inch for better penetration
- Designed for prepared seedbeds
- Uses a zig-zag pattern for better residue flow
- Minimizes soil throw
- Up to 190 pounds of down-pressure available per opener
- Available on the 455 and 1520 Drills

Tru-Vee opener

- Same opener found on MaxEmerge™ XP planters

- Offers 17 depth settings, ranging from .625 inch to 4 inches
- Smooth-sided gauge wheels prevent rooster-tailing in soft soil
- Choice of semi-pneumatic or cast-iron closing wheels
- Ideal for both conventional-till and no-till applications
- Available as an option on the BD11 Series Drills

Semi-deep single-disk opener

- Uses a 14-inch diameter disk
- Builds a higher furrow wall to protect seed
- Available on BD11 Series Drills on 7.5- or 10-inch spacing only

Double-disk opener

- Uses two 13.5-inch disks
- Leaves fields relatively smooth
- Choice of cast iron or aluminum boots to match soil conditions
- Down-force springs aid opener penetration
- Available on BD11 Series Drills

Drill Row-Spacing Options

ROW SPACING	6"	7.5"	10"	15"	20"	30"
1520 Integral Drill	X	X	X	—	—	—
1590 No-till Drill	—	X	X	X	X	—
BD11 End-wheel Drill	X	X	X	—	—	—
455 Folding Drill	X	X	X	—	—	—

Drill Residue-Handling Comparison

	CONVENTIONAL-TILL	REDUCED-TILL	NO-TILL
1520 Integral w/1570 Coulter Cart	X	X	X
1520 Integral Drill alone	X	—	—
1590 No-till Drill	X	X	X
BD11 End-wheel Drill	X	—	—
455 Folding Drill	X	—	—

Openers

No-till single-disk opener



Semi-deep single disk opener



Double-disk opener



Offset double-disk opener



Tru-Vee opener



Big productivity for big acres

With a 35-foot three-section 455 and seeding at 6 mph, you can drill more than 20 acres an hour. That's big productivity. You'll also cover lots of acres when you hook up a two-section 25-foot, or 30-foot three-section machine.

Accuracy is equally impressive. Offset double-disk openers feature patented active hydraulics for consistent down-pressure. You'll get the penetration you need for maintaining uniform seeding depth. Choose from 6-, 7.5-, or 10-inch row spacings.

In addition to hydraulic down-pressure, openers feature 15-inches of adjustable, spring-loaded flexibility, allowing each opener to work independently over obstacles and changing terrain.

Depth-gauging press wheels running behind the openers give you an unbeatable combination for depth control. These easy-to-adjust press wheels work with the active hydraulics to keep seed placement at the depth you set.

The 455 Folding Drill combines proven drill features with big-acre productivity along with John Deere value.



For hills and terraces, you get 15 degrees of up-and-down flexibility between each drill section. This keeps the double-disk openers in the ground for consistent seed trenches across the entire width of the drill.



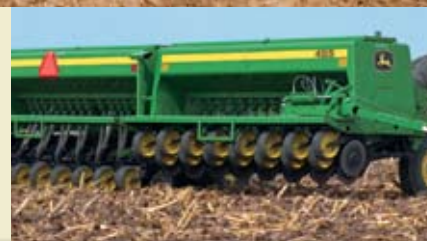
John Deere opener disks are offset for better penetration and residue slicing, making them perfect for fields with as much as 45 percent residue cover. A convenient T-handle lets you quickly adjust the depth-gauging press wheels to one of 12 settings – as deep as 3.5 inches – in half-inch increments.



In-line boxes save you valuable time. Spend less time jockeying bulky augers or going from box to box with bags. Just open the large-capacity hoppers and fill from the convenient, steel footboard.



Patented active hydraulics create consistent down-pressure for a uniform seeding depth. Just dial in the desired down-pressure (up to 190 pounds) for the entire drill with-one knob.



When drilling headlands and point rows, optional Select-Lift lets you control from inside the cab which section of openers keeps working and which doesn't. If a section is shut off, the openers come out of the soil and the meter drive clutch disengages.

455 Drill Attachments



Depth-gauging press wheels ensure good seed-to-soil contact at a consistent depth. Choose from four options: 1) Standard equipment, 2x13-inch press wheels are narrow and smooth-sided to provide ideal firming action in general conditions and heavy soil. They can be used with all opener spacings. 2) Optional 4x12-inch press wheels with a double rib for leaving loose soil over the seed. 3) These 1x12-inch "V" press wheels firm soil on each side of the furrow. This leaves loose soil over the seed to reduce the risk of crusting. This option is not recommended for 6-inch spacing. 4) The 1x12-inch semi-pneumatic press wheel promotes excellent seed-to-soil contact and helps ensure good germination.



Add a grain agitator to keep light, fluffy, odd-shaped, or inoculated seeds feeding smoothly into meters. You'll appreciate this attachment if you grow peas.



Seed-tube sensors alert you immediately if a tube plugs, eliminating costly stretches of unseeded ground. Monitor seed flow from up to four openers with the ComputerTrak 150 monitor. Properly equipped, the ComputerTrak 350 monitor (shown) can monitor up to 24 rows.



Choose a grass seeding attachment for accurate metering of grasses, forages, small grains, and oil-crops such as canola. This addition is excellent for set-aside ground and waterways.

The 455 Drill: Built to deliver more



MODELS	25-FT. (7.6 M) DRILL			30-FT. (9.1 M) DRILL			35-FT. (10.7 M) DRILL		
Number of openers	50	40	30	60	48	36	70	56	42
Row spacing	6 in. (15 cm)	7.5 in. (19 cm)	10 in. (25 cm)	6 in. (15 cm)	7.5 in. (19 cm)	10 in. (25 cm)	6 in. (15 cm)	7.5 in. (19 cm)	10 in. (25 cm)
DOUBLE-DISK OPENERS									
Configuration	Zig-zag								
Disk diameter	13.5 in. (343 mm)								
Disk offset	.25 in. (6.4 mm)								
Down-pressure adjustment	"Active" hydraulic down-pressure								
Drilling depth	Adjustable .75 to 3.5 in. (19 to 89 mm)								
PRESS WHEELS									
Standard	2x13 in. (5x33 cm)								
Optional	1x12 in. (3x30 cm); 4x12 in. (10x30 cm) double-rib; dual 1x12 (3x30 cm) (not recommended for 6-in. spacing)								
SEEDBOX CAPACITY									
Plain grain box	70 bu. (2,467 L); 2.8 bu./ft. (324 L/m)			84 bu. (2,960 L); 2.8 bu./ft. (324 L/m)			98 bu. (3,453 L); 2.8 bu./ft. (324 L/m)		
Grain/fertilizer box	85 bu. (2,995 L); 3.4 bu./ft. (393 L/m)			102 bu. (3,594 L); 3.4 bu./ft. (393 L/m)			119 bu. (4,193 L); 3.4 bu./ft. (393 L/m)		
100% grain	69 bu. (2,431 L)			82.8 bu. (2,918 L)			96.6 bu. (3,404 L)		
60/40 split	45.6 bu. (1,603 L) grain, 2,825 lb. (1,281 kg) fertilizer			54.6 bu. (1,924 L) grain, 3,390 lb. (1,538 kg) fertilizer			63.7 bu. (2,245 L) grain, 3,855 lb. (1,794 kg) fertilizer		
40/60 split	34.7 bu. (1,189 L) grain, 3,800 lb. (1,724 kg) fertilizer			40.5 bu. (1,427 L) grain, 4,560 lb. (2,068 kg) fertilizer			47.2 bu. (1,665 L) grain, 5,320 lb. (2,413 kg) fertilizer		
Footboard	Full-length, steel with nonskid surface								
METERING									
Fluted feed									
TIRES									
Frame	Four 11L, 10 PR			Four 11L, 10 PR			Four 11L, 10 PR		
Wings	Two 7.6-15, 6 PR			Two 7.6-15, 6 PR			Four 7.6-15, 6 PR		
DIMENSIONS									
Working width	25 ft. (7.6 m)			30 ft. (9.1 m)			35 ft. (10.7 m)		
Transport width	15 ft. 2 in. (4.6 m)			15 ft. 2 in. (4.6 m)			15 ft. 2 in. (4.6 m)		
Transport length	22 ft. (6.7 m)			24 ft. 6 in. (7.5 m)			27 ft. (8.2 m)		
Transport height	6 ft. 11 in. (2.1 m)			6 ft. 11 in. (2.1 m)			6 ft. 11 in. (2.1 m)		
Transport height with markers	13 ft. (4 m)			13 ft. (4 m)			15 ft. 6 in. (4 m)		
<i>Specifications and design subject to change without notice.</i>									

A front-fold design allows all models to transport at under 16 feet wide. Ground clearance of at least 1.5 feet and a height of just under 7 feet (without markers) let you get where you need to go.



Accurate. Adaptable. Affordable.

From no-frills to fancy, the BD11 Series of end-wheel drills can be ordered any way you like.

Need an economical way to get seed in the ground quickly? Pick a basic BD11. But if accuracy is most important, step up to Tru-Vee double-disk openers.

A BD11 Drill is truly at home in well-prepared fields. However, where conditions are a bit more rough, a BD11 Drill provides as much as 124 pounds of down-pressure per opener to slice through tough soils and moderate residue. The result is more accurate, consistent seeding depth.

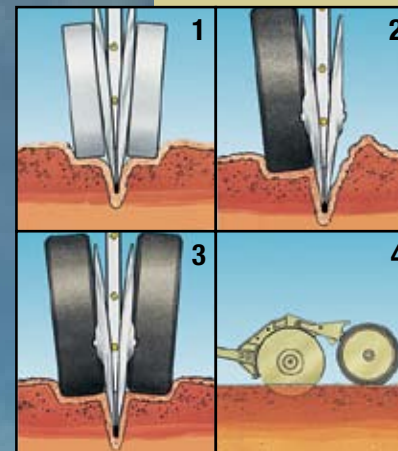
The BD11 comes in three sizes: 8-, 10- and 13-foot wide. The standard row-spacing is 7.5 inches. For the 10- and 13-foot models, 6-inch spacing is available. Ten-inch spacing is offered on the 13-foot tool.

See your John Deere dealer to learn more about the versatile and affordable BD11 Series.



BD11 Series Attachments

For double-disk openers, several depth-gauging attachments are available:



- 1) **depth bands** – on one or both sides – offer cost effective depth control;
- 2) **a single, adjustable depth-gauging wheel attachment** is perfect for quick and easy depth adjustment;
- 3) **the Tru-Vee attachment** gives you planter-type depth control; or
- 4) **depth-gauging press wheels** accurately gauge furrow depth while providing good seed-to-soil contact. Your options may be limited by opener spacing and seedboot choices. See your dealer for restrictions.



Choose aluminum boots (above) for prepared seedbeds and dry soil. They provide up to 118 pounds of down-pressure. Cast-iron boots (right) deliver as much as 124 pounds of down-pressure, making them ideal for wet, sticky conditions.



Drag chains are available as option to press wheels. They help smooth the soil and cover small grain and grass seeds.

Grain agitators are recommended for seeding inoculated, residue-laden, very light, or large seed to keep it feeding smoothly. If you grow peas, it's a must.



MODELS	BD1108		BD1110		BD1113		
Number of openers	13		21	17	26	21	16
Row spacing	7.5 in. (19 cm)		6 in. (15 cm)	7.5 in. (19 cm)	6 in. (15 cm)	7.5 in. (19 cm)	10 in. (25 cm)
OPENERS							
Double disk	13-in. (33 cm) diameter disks						
Seedboot	Cast-aluminum; cast-iron optional						
Depth gauging	Depth bands (one or both sides); single adjustable depth-gauge wheel; Tru-Vee attachment – dual adjustable depth-gauge wheel; depth-gauging press wheels						
SEED-TO-SOIL CONTACT							
Cover chains; 1x12 in. (2.5x30 cm), 2x13 in. (5x33 cm), or 4x12 in. (10x30 cm) double-rib press wheels							
METERING							
Fluted feed							
TIRES							
7.5-20, 4PR rib implement; 7.5-20, 4PR double-rib implement optional							
DIMENSIONS							
Seeding width	8 ft. 1 in. (2.46 m)	10 ft. 6 in. (3.23 m)	10 ft. 7 in. (3.23 m)	13 ft. (3.96 m)	13 ft. 1 in. (4.00 m)	13 ft. 4 in. (4.06 m)	
Overall width	10 ft. (3.05 m)	12 ft. 6 in. (3.81 m)		15 ft. 1 in. (4.59 m)			
Transport clearance	5.5 in (14 mm) opener to road clearance						
Weight (with 7.5-in. spacing)							
Plain grain	1,330 lb. (603 kg)	1,600 lb. (726 kg)		2,225 lb. (1009 kg)			
Grain/fertilizer	1,475 lb. (669 kg)	1,800 lb. (816 kg)		2,435 lb. (1104 kg)			
CAPACITY							
Plain grain box (2.8 bu./ft.)	22.4 bu. (789 L)	28 bu. (986 L)		36.4 bu. (1219 L)			
Grain/fertilizer box (3.4 bu./ft.)							
40% grain	10.8 bu. (380 L)	13.5 bu. (475.7 L)		17.5 bu. (616.6 L)			
60% grain	14.6 bu. (514 L)	18.2 bu. (641 L)		23.6 bu. (831.6 L)			
100% grain	22.1 bu. (778 L)	27.6 bu. (972.5 L)		35.9 bu. (1265 L)			
Grass seed box	1.5 bu. (52.8 L)	1.5 bu. (52.8 L)		1.7 bu. (52.8 L)			
OPTIONAL FEATURES							
Grain agitator, outside disk scrapers, half-speed drive, grass seed box							
<i>Specifications and design subject to change without notice.</i>							



The BD11 Series is available with a variety of options and attachments, so you can spec one out to match your needs.

The popular double-disk opener can run at higher speeds while disturbing less soil, leaving a smooth seedbed.



Depth-gauging press wheels ensure good seed-to-soil contact at a consistent depth.



The optional grass seeding attachment provides accurate seeding of grasses, alfalfa, and small grains.



Convert your drill for no-till

Want to increase the versatility of your drill? Then invest in this gem: a 15- or 20-foot 1570 Coulters Cart.

Equipped as a coulters cart, the 1570 turns your 1520 Drill into an effective no-till tool.

Parallel linkage on the 1570 transfers weight on-the-go for extra down-pressure as field conditions change. The 3-point hitch maintains weight transfer from the tractor to the cart for excellent penetration.

Coulters blades – 8-wave, 13-wave, and 25-wave, as well as ripple or bubble blades – slice residue and prep the seedbed.

One more advantage to the 1570: it can be hooked to an integral planter, too. Talk to your dealer soon for details.



Maintaining a constant running depth for coulters is easy, thanks to the parallel linkage on the 1570. Heavy-duty dual toolbars allow coulters to be mounted on either 7.5- or 10-inch spacing – whichever matches your operation.



Hydraulics on the 1570 are made to ensure good penetration. Two 8-inch hydraulic cylinders apply as much as 900 pounds of down-pressure per coulters, making your 1520 a workhorse even in heavy-residue conditions.



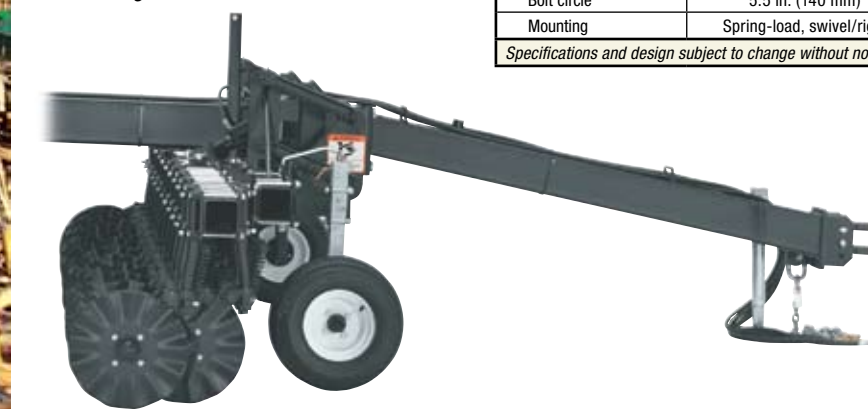
Enjoy hassle-free hook-ups. A standard 3-point Category 2 or 3N hitch lets you couple your 1520, 1530, or 1535 quickly with the coulters cart.



Five coulters-blade options let you prep seedbeds a lot or a little. **1) Bubble:** tills deep; opens a 1-inch furrow. **2) 8-wave:** offers less soil disturbance at higher speeds; suited for sandy, light soils. **3) 13-wave:** tills aggressively at speeds under 6 mph; leaves a 1.25-inch trench. **4) 25-wave:** finely works soil at slow speeds; requires less down-force for good penetration. **5) Ripple (not shown):** provides a .5-inch slot.

Seeding into minimum-till fields? Attach the 1570 Coulters Cart to your 1520 Drill to carve through residue. Rugged swivel coulters till a strip in front of each opener...clearing residue, leveling the seedbed, and allowing soil to warm faster.

A choice of hitch options makes the 1570 instantly compatible with your tractor. The hitch tongue is available with either a heavy-duty cast link for hammerstrap drawbars, or a clevis link for straight drawbars.



WIDTH	15 or 20 ft. (4.6 or 6.1 m)
ROW SPACING	7.5 or 10 in. (19 or 25 cm)
MAINFRAME	
Size	7x7 in. (18x18 cm)
Hitch	Hammerstrap or clevis-type
WEIGHT	
15-ft. model	4,032 lb. (1829 kg)
20-ft. model	4,638 lb. (2104 kg)
LENGTH	
Standard	14 ft. 10.5 in. (4.5 m)
Extended	17 ft. 10.5 in. (5.5 m)
TOOLBAR	
	Dual 5X5-in. (13X13 cm) steel-tubing toolbar; weight bracket optional; 7.75-in. (5.5 m) offset between bars
15-ft. model	.25-in. (6.4 mm) wall
20-ft. model	.375-in. (9.5 mm) wall
TIRES	
	Four 11LX15, 8 PR
DRILL HOOK-UP	
	Cat. 2 and Cat. 3, 3-point hitch
HYDRAULIC CYLINDERS	
For lifting drill	Two 3.75x20 in. (95x508 mm) on 15-ft. model; two 4x20 in. (101x508 mm) on 20-ft. model; transport locks included
For penetration	Two 2.5x8 in. (63x203 mm) for on-the-go adjustment
COULTERS	
Type	Bubble, ripple, 8, 13, or 25 wave
Diameter	17 in. (43 cm)
Bolt circle	5.5 in. (140 mm)
Mounting	Spring-load, swivel/rigid
Specifications and design subject to change without notice.	

Get accuracy, reliability, and pick-up-and-go convenience

Want a dependable drill to seed grass on your CRP ground, or maybe cereals or legumes elsewhere? The 1520 Integral Drill features John Deere double-disk openers that place your seed accurately. Opener blades are offset a quarter-inch for better penetration. A narrow, 10-degree angle between blades means a lower pinch point and more consistent seed trenches.

Depth-gauging press wheels firm seed into the furrow for excellent seed-to-soil contact. With one handle, you can select from 12 seed-depth positions.

Another plus is big seed boxes. Large grain boxes provide greater seeding capacity for fewer refill stops. The 15-foot 1520 holds 42 bushels, and the 20-foot model holds 40 bushels.

Need to work in residue? Just add the 1570 Coulter Cart, shown on pages 8-9. Then see your John Deere dealer to get a closer look at this accurate, reliable drill.

The openers' 15 inches of vertical travel give the 1520 responsive flexibility over uneven ground.



The 1520 delivers easy-handling mobility. A close-coupled integral design provides a tight turning radius for greater maneuverability and quicker turn-arounds in the field. Three-point-hitch mounting gives you excellent transport capability from field to field, and on the road. Match it up with a Category 2, 3, or 3N hitch, with or without Quik-Coupler.

1520 Drill Attachments



Two interconnected drive wheels ensure reliable seed metering on both the 15- and 20-foot sizes. Even over rough ground and in tight corners, the two large 9.5Lx14 (base) drive wheels provide ample floatation for consistent metering action.



Optional John Deere active hydraulics give you constant opener down-pressure for consistent depth control. Set depth across the entire drill quickly by adjusting one handy knob.



Grain agitators keep light, fluffy, odd-shaped, or inoculated seeds feeding smoothly into meters. It's essential when sowing peas.



Equip the 1520 with seed-tube sensors so you'll know immediately if a tube becomes plugged. Monitor seed flow from up to four openers with the ComputerTrak 150 monitor. Properly equipped, the ComputerTrak 350 monitor (shown) can monitor up to 24 rows.



Depth-gauging press wheels ensure good seed-to-soil contact at a consistent depth. Choose from four options: 1) Standard on the 1520, 2x13-inch press wheels are narrow and smooth-sided to provide firming action in general conditions and heavy soil. They can be used with all opener spacings. 2) Optional 4x12-inch press wheels with a double rib for leaving loose soil over the seed. 3) These 1x12-inch "V" press wheels firm soil on each side of the furrow. This leaves loose soil over the seed, reducing the risk of soil crusting. This option is not recommended for 6-inch spacing. 4) The 1x12-inch semi-pneumatic press wheel delivers excellent seed-to-soil contact, which helps ensure good germination.

Check out the 1520's advantages



MODELS	15-FT. (4.6 M) DRILL			20-FT. (6.1 M) DRILL		
Number of openers	30	24	18	40	32	24
Row spacing	6 in. (15 cm)	7.5 in. (19 cm)	10 in. (25 cm)	6 in. (15 cm)	7.5 in. (19 cm)	10 in. (25 cm)
DOUBLE-DISK OPENERS						
Configuration	Zig-zag					
Disk diameter	13.5 in. (343 mm)					
Disk offset	.25 in. (6.4 mm)					
Down-pressure adjustment	Hand-crank adjustment; "active" hydraulic down-pressure optional					
Drilling depth	Adjustable .75 to 3.5 in. (19 to 89 mm)					
PRESS WHEELS						
Standard	2x13 in. (5x33 cm)					
Optional	1x12 in. (3x30 cm); 4x12 in. (10x30 cm) double-rib; dual 1x12 (3x30 cm) (not recommended for 6-in. spacing)					
SEEDBOX						
Capacity	42 bu. (1,480 L); 2.8 bu./ft. (324 L/m)			40 bu. (1,409 L); 2 bu./ft. (231 L/m)		
Footboard	Full-length, steel with nonskid surface					
METERING						
Type	Fluted feed					
Drive/gauge wheel	Two 9.5Lx14, 8PR					
MOUNTING						
Integral, Cat. 3 or 3N with Quick-coupler						
DIMENSIONS						
Overall width	15 ft. (4.6 m)			20 ft. (6.1 m)		
Length (without press wheels)	6 ft. 4 in. (1.9 m)			6 ft. 4 in. (1.9 m)		
Height (working)	5 ft. 6 in. (1.7 m)			5 ft. 6 in. (1.7 m)		
Height (transport, less markers)	6 ft. 5 in. (2.0 m)			6 ft. 5 in. (2.0 m)		
Weight (base machine, empty, 7.5-in. spacing)	3,210 lb. (1456 kg)			4,180 lb. (1896 kg)		

Specifications and design subject to change without notice.



When comparing integral drills, start with what's important – the openers. The disks on John Deere double-disk openers are offset for better penetration and residue slicing. Plus, you can quickly adjust the depth-gauging press wheels to one of 12 settings in quarter-inch increments, ranging from .25-inch to 3.5-inches deep.

Choose a grass seeding attachment for accurate metering of grasses, forages, small grains, and oil-crops such as canola. This addition is excellent for set-aside ground and waterways.



The evolution of the no-till drill is complete

The 1590 No-till Drill combines the best features of both its predecessors – the 750 and the 1560 No-till Drills – into one dynamic design.

With up to 425 pounds of down pressure and 7-degree angle, the 1590's openers can cut through the toughest residue or thickest soils. Residue flows smoothly and easily, thanks to plenty of clearance between the blade, seed tube, and arm, while the unique seedboot design improves accuracy and durability.

And for accurate, consistent planting rates, the 1590 uses a right-wheel drive meter (center-wheel drive on the 20-foot model) that's hinged at the frame, so it stays in contact with the ground for constant power to the meter drive.

The 1590 No-till Drill is offered in 10-, 15- and 20-foot sizes, with plain grain and fertilizer-grain configurations to accommodate a variety of cropping systems.



Narrow country lanes pose no problem when transporting your 1590. You'll easily get from field to field, farm to farm with this tool.

Choose a hitch that matches your power and acreage. Three choices: regular drawn hitch, semi-integral hitch for rolling fields (far right), and, for smaller horsepower tractors, a drawn caster-wheel hitch (right) that includes a reversible link for either straight or hammerstrap drawbars (inset).



The 1590 features a factory-installed front rank lock-up feature for seeding in alternate row spacings.

Notice how this floating indicator shows you at a glance the level of seed in the box. There's no guessing or squinting at sight glasses.



Say goodbye to efficiency-robbing and costly skips and overlaps. Bi-fold markers, available on 15- and 20-foot models, make improving efficiency and productivity a snap.



Just a push of your thumb on this easy-to-use toggle control adjusts the Electronic Population Rate Control. You'll appreciate the simplicity and time-savings of the system.



Changing seed populations on-the-go from the tractor is easy with Electronic Population Rate Control. This standard feature works with seed sensors and either a ComputerTrak™ or SeedStar™ monitor for hassle-free rate adjustments.



Exclusive active hydraulic down-pressure lets you maintain up to 450 pounds of down-pressure, no matter the terrain or field conditions. Reduce down-pressure to as little as zero pounds for conventional seeding.



Seed-tube sensors work in tandem with ComputerTrak (shown) or SeedStar monitor to alert you immediately if seed flow is obstructed, saving you time, money, and trouble.

No-till design. All-till capability.

No-till, conventional-till, and min-till. If you're the type of producer who uses whatever tillage approach the soil demands, then you have a couple of options: 1) buy multiple seeding tools to span the range of your cropping practices, or 2) get a 1590 No-till Drill.

Sure, it's a bold statement, but we make it with confidence; the opener on the 1590 No-till Drill really is made to work in every type of tillage situation.

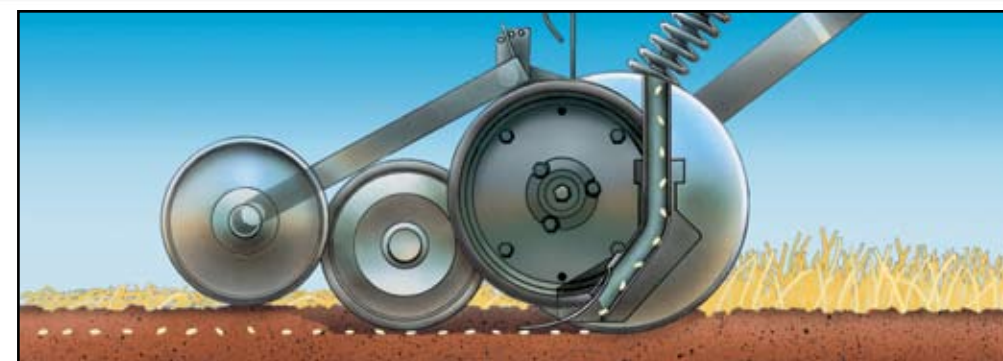
Certainly, the single-disk design works exceedingly well in heavy residue. The 18-inch disk blades are mounted at a 7-degree angle for aggressive action in high-residue fields. Up to 450 pounds of down-pressure provide consistent down-force in rough fields. Once your no-till fields are done, you can take the 1590 right into well-prepped seedbeds. Just set the hydraulic pressure at zero and the openers will float up and down two inches.

So spend your money wisely – on a single tool that works well in just about any field condition. Talk to your dealer today about the versatile 1590 No-till Drill.

Conventional-till



No-till



Location is everything, especially when it comes to seedboot placement. The seedboots on the 1590's openers are situated at the centerline of the hub. What this means is that seeds are deposited right where they should be to germinate – at the bottom of the furrow – not on top of the ground. The bonus advantages to this realignment are that you'll get better depth control and have much longer seedboot life.



A one-piece seedboot is made of cast iron for durability. It's spring-loaded against the disk blade to help ensure accurate seed placement. A nylon seed deflector keeps seed at the bottom of the furrow to enhance seed-to-soil contact. And, you can choose the optional chrome alloy for up to 3 times the life span.



To boost germination, a 1x10-inch press wheel firms seed into the bottom of the furrow. The wheel is made of rubber to resist picking up seeds. Plus, adjusting down-pressure from 5 to 45 pounds is easy – no tools are needed.



The consistent depth control the 1590 delivers is accomplished with 4.5 x 16-inch semi-pneumatic gauge wheels. Thirteen quarter-inch adjustments, ranging from a quarter inch to 3.5-inches, let you set the depth you need for your crop. Choose either a smooth plastic hub for less soil disturbance, or steel-rim gauge wheels for no-till applications.



Since closing the furrow is essential, a 1x12-inch cast closing wheel trails behind the press wheel. The closing wheel can be adjusted to run on top of the furrow or to its side. Three different settings let you add from 26 to 43 pounds of down-pressure.

1590 No-till Drill: Dynamic capabilities



MODELS	10-FT. (3.05 M) DRILL		15-FT. (4.6 M) DRILL		20-FT. (6.1 M) DRILL	
	Plain Grain	Grain/Fertilizer	Plain Grain	Grain/Fertilizer	Plain Grain	Grain/Fertilizer
DIMENSIONS						
Working width	10 ft. (3.05 m)	10 ft. (3.05 m)	15 ft. (4.6 m)	15 ft. (4.6 m)	20 ft. (6.1 m)	20 ft. (6.1 m)
Overall width	10 ft. 3 in. (3.12 m)	10 ft. 3 in. (3.12 m)	15 ft. 3 in. (4.7 m)	15 ft. 3 in. (4.7 m)	20 ft. 3 in. (6.2 m)	20 ft. 3 in. (6.2 m)
Overall height	6 ft. 10 in. (208 cm)	6 ft. 3 in. (191 cm)	6 ft. 10 in. (208 cm)	6 ft. 3 in. (191 cm)	6 ft. 10 in. (208 cm)	6 ft. 3 in. (191 cm)
Overall length						
With castoring wheels	20 ft. (6.1 m)					
Without castoring wheels	17 ft. 8 in. (5.38 m)					
Weight (maximum base)	6,430 lb. (2917 kg)	6,590 lb. (2985 kg)	8,460 lb. (3837 kg)	8,660 lb. (3928 kg)	12,860 lb. (5833 kg)	13,160 lb. (5969 kg)
CAPACITIES						
Grain box	3.5 bu./ft. (404.7 L/m)	1.4 or 2 bu./ft. (160 or 230 L/m)	3.5 bu./ft. (404.7 L/m)	1.4 or 2 bu./ft. (160 or 230 L/m)	3.5 bu./ft. (404.7 L/m)	1.4 or 2 bu./ft. (160 or 230 L/m)
Fertilizer box	–	113 or 162 lb./ft. (168 or 242 kg/m)	–	113 or 162 lb./ft. (168 or 242 kg/m)	–	113 or 162 lb./ft. (168 or 242 kg/m)
Total box	3.5 bu./ft. (404.7 L/m)	3.4 bu./ft. (393 L/m)	3.5 bu./ft. (404.7 L/m)	3.4 bu./ft. (393 L/m)	3.5 bu./ft. (404.7 L/m)	3.4 bu./ft. (393 L/m)
OPENER ASSEMBLY						
Spacing	7.5 or 10" (19 or 25 cm); 15 or 20 in. (38.1 or 51 cm) with front-rank lock-up					
Down-pressure	Active hydraulic down-pressure, adjustable from 165-450 lb. (75-204 kg)					
Disk	Beveled-edge 18-in. (46 cm) disk at 7-degree angle; separate fertilizer placement available					
Gauge wheels	4.5x16 in. (11.4x41 cm), adjustable .25-3.5 in. (0-9 cm) in .25-in. (0.6 cm) increments					
Press wheels	1x10 in. (2.54x25.4 cm) rubber wheels, adjustable down-pressure from 5-45 lb. (2.3-21 kg)					
Closing wheels	1x12 in. (2.5x30 cm) cast wheel at 20-degree vertical angle, 7-degree horizontal angle; 26-43 lb. (12-20 kg) down-pressure					
CLEARANCE						
Underframe	24 in. (61 cm)					
Between ranks	48.5 in. (123.2 cm)					
Between openers	With 7.5-in. spacing – 15 in. (38.1 cm); 10-in. spacing – 20 in. (50.8 cm)					
Road to opener	8 in. (20.3 cm)					
*10-in. spacing is available only on 15-ft. and 20-ft. models.						
Specifications and design subject to change without notice.						

“You should promote the fact that you can run that opener in any kind of residue levels,” said one producer who'd put this opener to the test in both tilled and untilled ground. That's what he was impressed with, and you will be, too. **“No competitor has an opener this effective or this versatile.”**