

YOUR BEST SEASON STARTS WITH SUNFLOWER®

Disc Harrows | Fallow Tillage | Seedbed Prep | Grain Drills

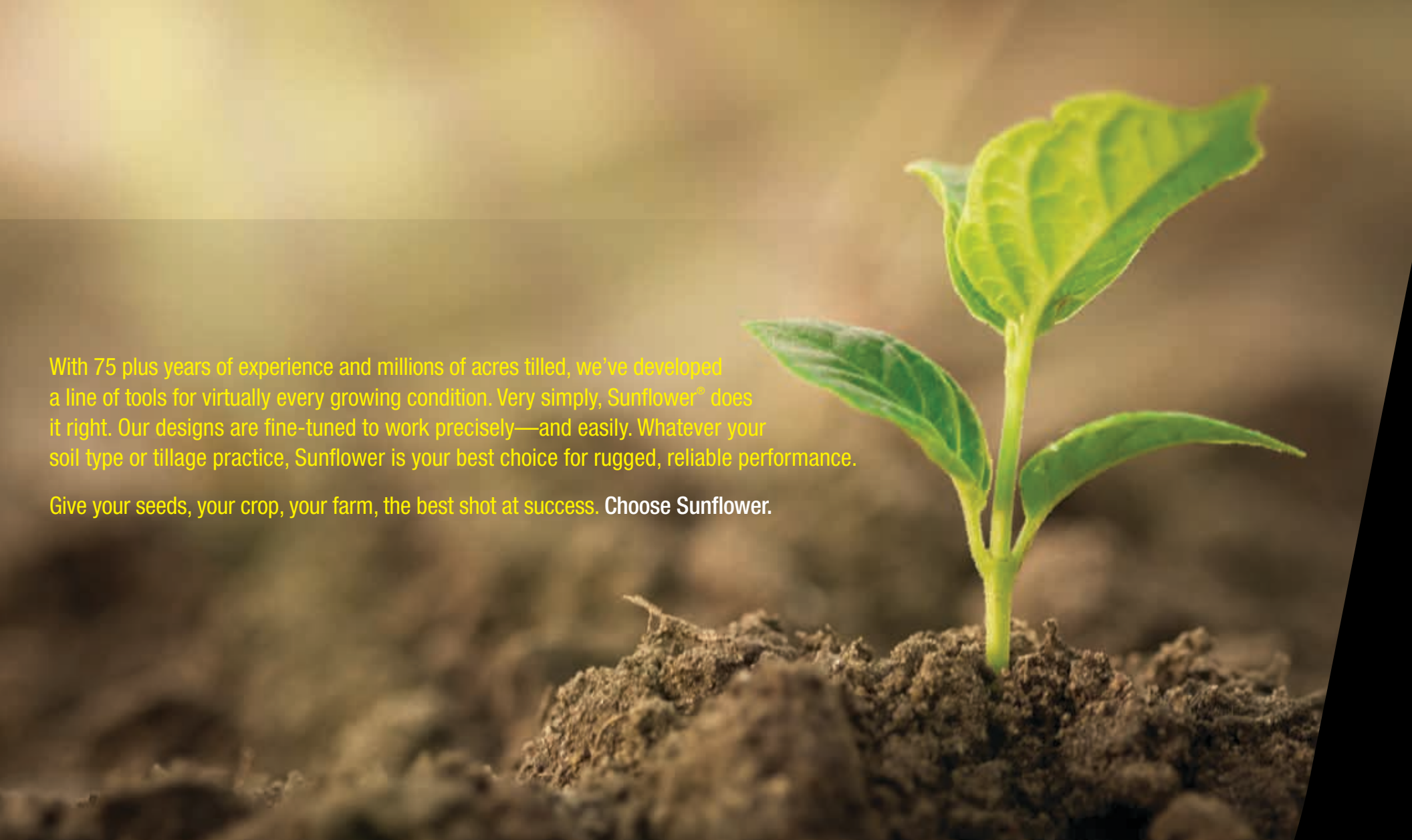


SUNFLOWER®



 **SUNFLOWER**[®]





With 75 plus years of experience and millions of acres tilled, we've developed a line of tools for virtually every growing condition. Very simply, Sunflower® does it right. Our designs are fine-tuned to work precisely—and easily. Whatever your soil type or tillage practice, Sunflower is your best choice for rugged, reliable performance.

Give your seeds, your crop, your farm, the best shot at success. Choose Sunflower.

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DISC HARROWS



GIVE EACH SEED ITS BEST SHOT AT A HEALTHY RETURN

Sunflower disc harrows offer the versatility farmers need today for primary or secondary tillage, spring or fall, even in rescue applications after a wet harvest. What's more, Sunflower disc harrows are engineered with agronomics in mind and manufactured to be one of the most durable pieces of equipment in your farming arsenal.



Staggered Overlapping Disc Gangs

All but the heaviest-duty Sunflower discs feature staggered overlapping disc gangs, one of the keys to level discing.

- The overlapped placement of the front gangs cuts all of the ground cleanly, while the staggered rear gangs return the soil in a crisscross pattern. The Sunflower combination eliminates ridging in the center

Front-Mounted Gauge Wheels

The gauge wheel prevents the front corner gang of the wing frame from cutting deeper than the other gangs. Front-mounted gauge wheels help create a level, ridge-free field.

- Sunflower positions the gauge wheels toward the outside edge of the frame, greatly enhancing the wheels' ability to control the wing and helps eliminate ridging.
- By contrast, some manufacturers extend the gang bars on the wings to make the next size up in a tillage series. This leaves the wing wheels too far inside, where they cannot control the wings as effectively.

Trunnion-Mounted Bearings

Sunflower's maintenance-free, trunnion-mounted bearings provide positive alignment and eliminate side-loading of the bearings.

- Metal washers protect the seals from being damaged by material wrapping around the gang shaft.
- Trunnion-mounted bearings constantly realign as the C-Flex™ bearing standards move and absorb shock from uneven ground. With conventional bearing systems, the bearing cannot move within the housing. Such design eventually leads to bearing failure because the bearing cannot remain in alignment.

C-Flex Bearing Standards

All but the heaviest-duty Sunflower discs feature angled C-Flex bearing standards that absorb disc gang shock created by stumps, rocks and normal discing, thereby extending the life of bearings, spools and disc blades.

- The angled design of the C-Flex standards centers the arm between the disc blades, promoting even residue flow to avoid buildup between the arm and blades. Less downtime due to plugging.
- Unlike some competitive machines, the scraper bars are mounted to the C-Flex standards, which allows the scrapers to react with the gang and not come into contact with the spools or blades.

UHMW Polymer Sleeves

Ultra-high molecular weight (UHMW) polymer sleeves eliminate the necessity of greasing frame and lift-pivot points, reducing maintenance time.

Walking Tandems

The walking beam pivot assemblies consist of two tapered roller bearings with triple-lipped seals for longer service life. For ease of service and strength, the wheel spindles of all configurations—dual, tandem or triples—slip into the spindle tube welded into the walking beam.

1212

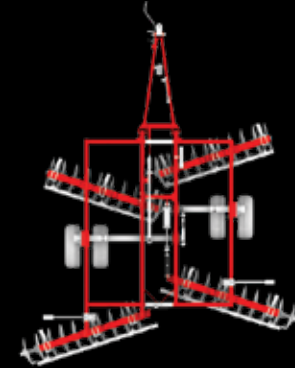
Tandem Disc Harrows

Large-disc performance for today's smaller farms

WORKING WIDTHS FROM 10' 6" TO 14' 7"

The 1212 is tough, heavy and capable of performing primary and finish discing operations.

- Available in rigid models only, the 1212 matches tractor horsepower in the range of 110 and lower.
- With the exception of gauge wheels and wings, the 1212 has all of the same outstanding features as all Sunflower discs.
- This tandem disc harrow features 335 to 396 pounds per foot of cut.



1234

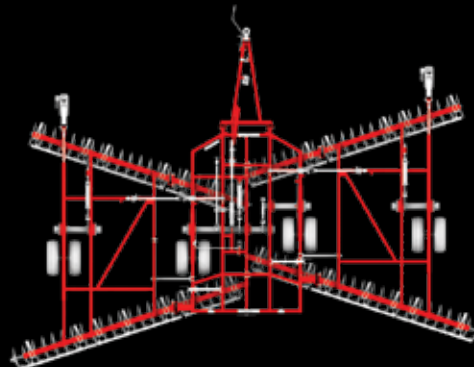
Three-Section Tandem Disc Harrows

Uniform flexibility with unmatched field performance

WORKING WIDTHS FROM 18' 11" TO 32' 8"

A medium weight disc, 1234 capably handles primary t hrough finish discing operations, providing uniform tillage regardless of terrain, discing depth, and soil condition.

- An all-welded frame features even weight distribution for uniform penetration.
- Three flexible sections assure that rough, rolling and terraced ground will be tilled evenly and smoothly.
- Large tires provide excellent flotation, unmatched depth control and the base for level discing.
- Overlapping disc gangs prevent ridging in the center.
- Self-leveling hitch simplifies leveling the disc from front to rear.
- Front-mounted depth control adjusts the operating depth of the entire machine.



“It penetrates and does a very level job, and helps come planting time. It chops larger clods and creates consistent sized material.”

Harry Neuenschwander

Salem, OH

Farms 500 acres, growing corn, soybeans, hay and wheat. Also, runs a dairy.

Uses the Sunflower 1234 Disc Harrow.

1436 Three-Section Flexible Disc Harrows

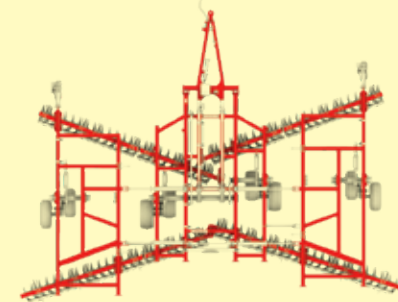
1436NT

Delivers the high performance demanded for today's farming

WORKING WIDTHS FROM 18' 9" TO 38' 2"

The standard of performance to break through heavy residue with more weight per foot: 625–660 pounds.

- As a well-balanced disc harrow, the level lift frame, walking tandems and gauge wheels are standard equipment.
- Aligned walking tandems give the disc more control.
- For ease of use, the patented split-wing design allows a 13' 6" transport height, the industry's lowest for tools exceeding 33' working widths.
- With an exceptionally balanced design, the 1436 can accommodate heavier finishing attachments.
- There's no need to adjust the fore/aft level moving from field to transport and back to field.
- The 1436NT (*narrow transport*) series delivers big performance that transports at less than 10' wide.



FALLOW TILLAGE



THE CHOICE OF THE HIGH PLAINS

Fallow tillage can be a bit of an art form. The tools must be set and operated to perform at precise levels to accomplish work under the soil line while leaving the surface in a desirable condition.



3000

Sunflower Fallow-King

King of the fallow tillage tools

WORKING WIDTHS FROM 21' TO 49'

Performing both primary and secondary tillage activities, the Sunflower Fallow-King is built especially for the wide range of soil conditions found on the High Plains, and, like all Sunflower tillage tools, Fallow-King does a lot more than a good job. It leaves your fields properly tilled, weeds undercut, and a nearly perfect bed of mulch in your freshly tilled soil.

- The entire Fallow-King Series features two rows of shanks and frames that flex every seven feet to hug the terrain on flat or rolling ground, even over terraces. You can run shallow without the fear of skipping or gouging, and Sunflower's computer design features optimum shank placement and provides a 6" overlap between the 26" sweeps for maximum weed kill.
- The exclusive Sunflower treader design provides unparalleled soil aeration, even in heavy surface residue.
- Sunflower's exclusive "on-edge" shanks are 1.25" wide x 2.5" thick and provide a true 30" of residue clearance.
- Other features include:
 - Walking tandems available on all sections
 - Ratchet jacks that adjust to precisely level the frame front to rear
- Front-mounted single-point depth control
- Gauge wheels that are standard equipment on four- through seven-section machines
- Rockshafts mounted at the top of the frame for superior ground clearance and residue flow
- Optional coulter assemblies

3300

Blade Plows

Tillage quality in a wide variety of soil types and field conditions

WORKING WIDTHS FROM 30' TO 55'

We design our equipment with the operator in mind by listening to our customers and delivering what they want. High on your list was durable, reduced-maintenance equipment. Sunflower delivers by incorporating UHMW polymer technology in all high-wear areas including transports, coulter supports and pivot bushings between the hinge joint and attaching wing frame.

- The 3300 incorporates adjustable swivel linkages between the rockshafts at each frame for easy and fast adjustments and leveling.
- Other features include:
 - A third hinge on wing frames, which provides extra strength and longer life to frame connections
 - Reinforced tongue and center frame
 - Box-brace standards that add strength and stability to the blade standards
 - Large 22" rolling coulters with five-bolt hubs
 - In-line wheel placement, which provides a single frame pivot point and allows the blades and standards to work together
 - Easily adjustable swivel linkage between rockshafts that simplifies frame leveling

3600 Blade Plows

Cut costs and enhance yields

WORKING WIDTHS FROM 30' TO 55'

Using Sunflower's 3600 Blade Plow as a fallow maintenance tool not only costs less per acre than chemical fallow. Plus, tillage offers additional benefits such as fracturing surface compaction, improving water/air infiltration and creating a better environment for seed germination and root growth. What does this mean to you? An improvement to your bottom line through reducing cost and enhancing yields.

- An over-frame hitch spans front to rear to provide uniform down pressure over the entire frame.
- High-clearance box standards feature a four-bolt mount that provides maximum stability.
- Other features include:
 - In-line wheel placement throughout the plow
 - Heavy-duty rolling coulters with 22" blades
 - Available in 5-, 6-, 7-, 9-, and 11-section models





SUNFLOWER

SEEDBED PREP

A TERRIFIC YIELD BEGINS WITH A WELL-PREPARED SEEDBED

There's a fine art to working up a great seedbed that has the good tilth, uniform residue distribution and level soil profile that seeds need to germinate and grow. It starts with the right tools—Sunflower tillage tools.



FIELD CULTIVATORS



PERFORMANCE THAT'S ALWAYS ON THE LEVEL

Sunflower field cultivators feature superior engineering and rugged construction that withstand the test of time. A prime example is the A-frame tongue design. Each leg extends deep under the center-section frame, supporting it from the tractor drawbar to the lift axles to protect the center-section frame against rotational forces and concentrated weight when the tool is folded in transport.

Single-Point Depth Control

Single-point depth control is conveniently located for easy adjustments and offers accuracy up to 1/4". On models 30' and larger, the adjustment is located on the mainframe left of the tongue. On smaller units, it's near the front of the tongue.

Depth Gauge

Standard equipment on the 5056 Series, this easy-to-read gauge helps set the depth of operation of the tool.

Walking Tandems

Walking tandems are standard on all sections, enabling the machine to follow the ground contour precisely, maintaining a more consistent sweep depth. The tandem beam pivots on a set of greaseable tapered roller bearings for smooth, long-lasting service.

Maintenance-Free UHMW

Sunflower field cultivators are equipped with maintenance-free lift and wing pivot systems that use service-free UHMW polymer bearings. Spend more time in the field, less time servicing.

Frame-Leveling Adjustment

Screw adjustments on the wheel lifts provide precise wing-frame leveling, and are located above and to the front of the frame for optimum operator convenience.

Spring-Tension Shanks

With 25" of under-frame clearance, the 5/8" thick, 190-pound-point-load shanks on a five-bar cultivator placement provide optimum trash flow.

S-Tine Shanks

Two-piece S-tine 160-pound-point-load shanks are also available if rocks and stones are not present and the heavier spring-tension shanks are not necessary.

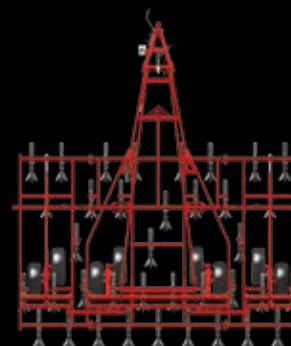
5035 Three-Section Field Cultivator

Heavy construction, outstanding clearance, and superb flotation

WORKING WIDTHS FROM 18' 6" TO 36' 6"

3" x 4" rectangular tube frame provides the strength today's high-horsepower tractors require, and the design of the 5035 features optimum shank placement for unmatched clearance.

- The 5035 features single-point depth control with rephasing lift cylinders.
- Shanks are available in either spring-tension or two-piece S-tine design, with up to 190 pounds of point load for extra-tough conditions.
- Optimum shank placement provides unmatched residue clearance.
- Walking tandems and 11L tires provide the flotation farmers require of a field cultivator.
- The self-leveling hitch maintains a level frame from front to rear, regardless of operating depth.
- Frame-leveling gauge wheels are standard equipment on units 26' and wider.



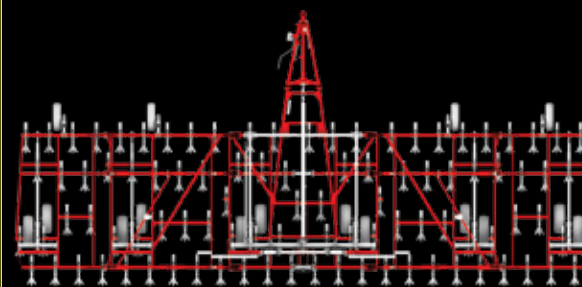
5056 Five-Section Field Cultivator

Cover more acres fast with one of the industry's largest cultivators

WORKING WIDTHS FROM 45' TO 63'

The truss-style frame on the 5056 provides the strength required by today's wider frame tools in combination with high-horsepower tractors.

- Deep frames and optimum shank placement account for unmatched residue flow through the tool.
- The single-point depth control, rephasing lift system, shanks with either spring-tension (190-pound point load) or S-tine design (160-pound point load), and heavy-duty walking tandems with large-diameter slip-in spindles are all covered by Sunflower's three-year limited warranty.
- Choose between the standard self-leveling and the optional floating tongue (for hilly or undulating terrain) to maintain the same level operating position.
- Other features include:
 - Cat V Hitch
 - True 6" Shank Spacing
 - Sweep Depth Indicator
 - Easy Frame Leveling
 - Swiveling Gauge Wheels



VERTICAL TILLAGE

GENTLE ON SOIL, TOUGH ON RESIDUE

Not all vertical tillage tools are the same. Innovative and durable, Sunflower vertical tillage tools manage residue and open soil for warming and drying, while minimizing its horizontal movement and reducing compaction layers. The Sunflower 6600 Series Vertical Tillage tools are designed to perform at higher speeds, improving growers' productivity while delivering excellent residue sizing and mixing, and an outstanding field finish. Unlike other brands, Sunflower vertical tillage tools reel attachments are included in the Sunflower 3-Year Limited Warranty.

Sunflower Saber Blade™

This 22" diameter blade has 25 soil-lifting flutes designed with scallops to maintain an effective cutting edge, acre after acre.

C-Flex™ Trunnion-Mounted Bearings

The maintenance-free trunnion-mounted bearings are free to realign as the C-Flex standards move when impacted.

Split-Wing™ Technology

Even the widest 35' and 40' models transport at a low 13' 7" height thanks to patented Split-Wing™ technology. In the field, the design positions the wing wheels toward the outside edge of the wing to maintain the correct relationship with the front and rear gangs, ensuring superb performance and a level field.

Single-Point Depth Control

The single-point depth control is conveniently located at the front of the machine for easy access. Large, easy-to-read markings indicate the direction of movement for adjusting.

Front-Mounted Gauge Wheels

Front-mounted gauge wheels are a trademark of all flexible Sunflower tools. This important feature prevents the front gangs of the wing frame from gouging, buckling or cutting deeper than the other gangs, promoting a level field. The heavy-duty gauge wheels feature a five-bolt hub and 8x10-ply tire.

Hydraulic Self-Leveling Hitch

Level the frame from front to rear with Sunflower's hydraulic self-leveling hitch. This positive adjustment maintains a preselected setting regardless of the tillage depth. It features heavy-duty compression springs on each side of the pivot to cushion both front and rear gangs, which is important when crossing ditches or rough terrain.

Maintenance-Free UHMW

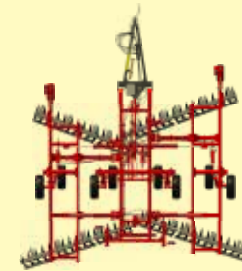
Sunflower equips the 6600 Series Vertical Tillage tools with maintenance-free lift and wing-pivot systems. These systems pivot on UHMW polymer sleeves, eliminating greasing in the lift, wing- and gauge-wheel pivots.

6631 Three-Section Vertical Tillage

6631NT The cutting edge in performance
WORKING WIDTHS FROM 20' 2" TO 37' 5"

The next-generation Sunflower 6631 Vertical Tillage Tool uses Saber Blades, which are exclusive to Sunflower.

- Saber Blades pair a fluted design with a low concavity, creating a soil-lifting action that can't be duplicated by a conventional spherical disc blade. Each blade has 25 full-depth flutes and features an innovative sawtooth design that maintains its cutting edge, allowing it to cut through tough crop residue throughout the life of the blade.

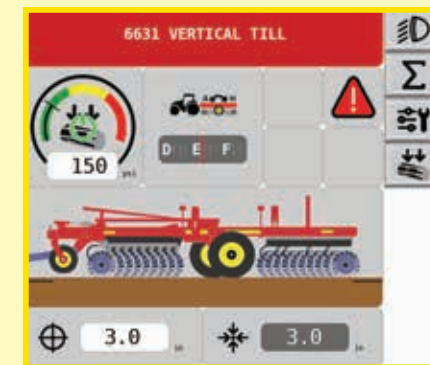


Sunflower Till Control™

Factory-installed option on the 6631 and 6631NT

The Sunflower Till Control System brings precise implement control and mapping to tillage operations with accurate in-cab depth adjustment, frame-level monitoring and tillage-pass recording through an ISOBUS terminal task controller in the tractor cab.

- Unlike competitors' proprietary systems, Till Control works in mixed fleets of various makes of tractors, allowing total flexibility in using Sunflower tools.
- Easy-to-use, animated screen graphics guide the operator through calibration, setting of exact tillage depths, controlling the LED implement lighting and more.
- Automated settings and depth control ensure consistent tillage passes, even with a less-experienced operator in the cab.
- Field mapping, acres worked and hours worked are logged and displayed along with service intervals and reminders.



LAND FINISHERS

THE SINGLE-PASS SOLUTION FOR MULTIPLE NEEDS

Sunflower's 6000 Series finishers produce excellent high-quality seedbeds, delivering multi-step residue sizing and soil leveling, mixing and conditioning to give your crop the best soil environment possible. The Land Finishers accomplish the task with a combination of blades, sweeps and conditioning attachment to define the seed zone by sizing residue, leveling, lifting and mixing soil.

Unique Disc Gang Reel

The unique disc gang reel is located directly behind the disc gang and provides four important actions:

- Pulverizes soils and clods
- Thoroughly incorporates chemicals
- Vigorously mixes soil and residue
- Prevents lateral movement of the soil and eliminates ridging

Heavy-Duty Disc Gang Assemblies

- 1 ¾" diameter alloy steel gang shafts
- 20", 1.32" low concavity disc blades, either six gauge or four gauge
- 7 ½" disc gang spacing with steel spools
- Triple-sealed self-aligning maintenance-free disc gang bearings

Disc Gang Placement

The disc gangs direct the soil into the gang reels. The gang reels located

immediately behind the disc gangs level the surface profile by preventing the lateral movement of soil that would create ridges and valleys.

Adjustable Disc Gang Depth

The gangs are adjustable from 1" below to 5" above the cultivator sweeps. Adjustment is accomplished with either the manual or hydraulically adjustable feature.

*Optional on 6333 and 6444 models.
Hydraulic adjustment feature shown.*

Spring-Cushioned Disc Gangs

The disc gangs are equipped with heavy-duty spring-cushioned mounts to protect them from obstructions such as rocks and stumps.

Spring-Tension Shanks

With 25" of under-frame clearance, the 5/8" thick, 190-pound-point-load shanks on a five-bar cultivator placement provide optimum trash flow.

S-Tine Shanks (on Land Finishers)

S-Tine 160-pound-point-load shanks are also available if rocks and stones are not present and the heavier spring-tension shanks are not necessary.

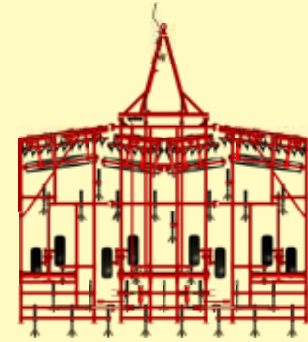
6333 Land Finishers

Tillage intensity—one trip and you're ready to plant

WORKING WIDTHS FROM 21' 9" TO 36' 9"

Disc, level, cultivate and condition soil in one trip. Easily adjustable and feature packed, the 6333 Land Finisher fits a wide range of medium-horsepower tractors.

- Hydraulic disc gang adjustment (*optional*) moves disc gangs from 1" below the sweep to 5" above.
- 1 3/4" diameter gang shafts ensure precise alignment of the entire disc gang.
- Disc gangs feature 20" diameter, 1 5/16" low-concavity blades.
- Choose spring-tension (*190-pound*) or two-piece S-tine shanks (*160-pound*).



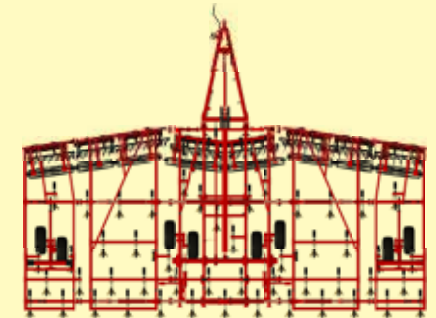
6433 Split-Wing Land Finishers

Increase your efficiency while reducing input costs

WORKING WIDTHS FROM 36' 9" TO 42' 9"

Performing multiple tillage operations in a single pass saves you trips across the field and reduces input costs.

- Split-wing folding: three-section field performance with five-section folding for low height and narrow transport dimensions.
- Hydraulic disc gang adjustment (*optional*): from the tractor cab, adjust the disc gangs from 1" below the sweep to 5" above.
- 1 3/4" diameter gang shafts ensure precise alignment of the entire disc gang.
- Disc gangs feature 20" diameter, 1 5/16" low-concavity blades.
- Choose spring-tension (*190-pound*) or two-piece S-tine shanks (*160-pound*).



GRAIN DRILLS

9321 | 9412 | 9413 | 9421 | 9435

THE SCIENCE OF SEEDING

Farming is an art and a science. Skill is often passed down through generations. Technique is honed as we learn from our triumphs and failures. And then there's innovation: the ideas that take us forward—sometimes with steps, sometimes with leaps. This innovation is our science, the way we learn and improve.

Seeding is a science to us. We've tested scores of designs over hundreds of thousands of acres to find the perfect combination of accuracy, speed and endurance.

Our designs are different, and so are their results. It's a difference you'll see in your field when you seed with a Sunflower drill.

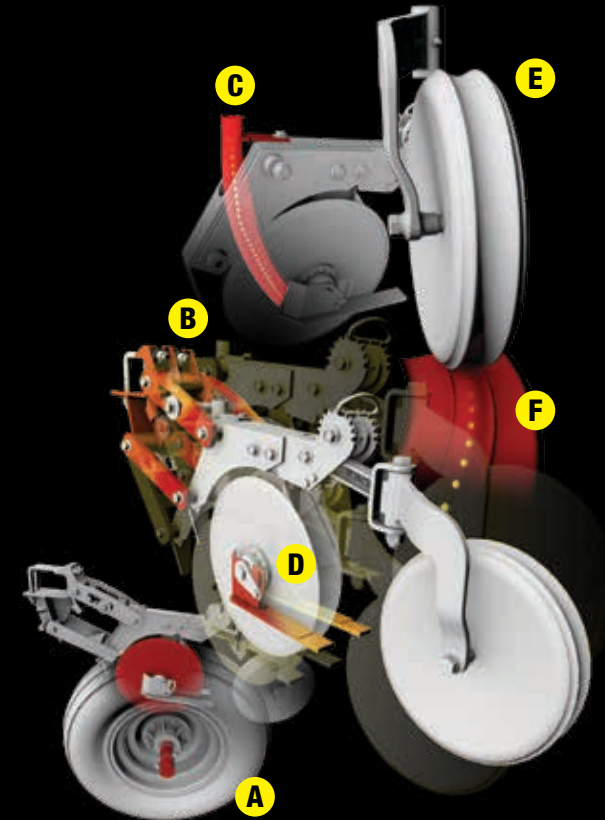


Our conventional and all-purpose drills maintain a consistent attack angle and depth, controlling seed and soil during placement and creating an ideal environment for emergence and growth. With exclusive, patented designs, Sunflower drills deliver remarkable accuracy acre after acre. Here's how:

- A.** Aligning the carrying system with the opener blades to maintain consistent depth and angle of opener attack. On most drill designs, the seed trench openers are not in alignment with the wheel axle, resulting in a seesawing action between the drill hitch and the seed openers. With a Sunflower, as the tractor descends a hill and lowers the hitch, the openers lift and change their angle of attack in the soil surface; the opposite occurs when the tractor ascends a hill and raises the hitch. Like a planter, the Sunflower design keeps openers in alignment with the axle so there is no change in depth as the hitch raises or lowers.
- B.** Parallel linkage keeps attack angle and depth consistent over rolling terrain. The parallel linkage of our design keeps the seeding unit from arcing backwards as the unit meets obstructions or elevations. The parallel arms ensure that the unit travels vertically rather than changing the attack angle of the opener blades.
- C.** Seed tube design slows and aligns seed in a narrow band of descent to maintain accurate placement; seed is deposited at the widest point in the trench, directly below the opener blade axle. In many designs, seed falls at a steep angle and enters the trench at high speed with a risk of ricochet. Our design purposely slows the seed descent to improve accuracy with reduced pitch and a narrowing of the seed tube.
- D.** Patented soil-control devices keep soil from being thrown outwardly by the angled opener blades and beginning the process of closing the trench. As trench openers travel through the field, they move soil away from the seed trench. If this soil is not controlled, it travels too far from the seed trench, meaning it is unavailable to be returned to the trench for the closing process. Our patented soil-control devices hold soil in place and assist with closing the trench.
- E.** Pivoting press wheels are geometrically designed to track the seed trench around turns. Drills include press wheels

to close the trench for effective germination, while many other designs have press wheels that cannot track the trench as the drill maneuvers around turns. Our wheels are geometrically positioned to track the seed trench wherever you decide to plant.

- F.** Double-ribbed closing wheels close the trench from the side rather than the top. The best environment for germinating and emerging seed is a trench that is closed with good seed-to-soil contact and is firmly compacted. Our closing wheels are double ribbed, using elevated outer portions of the closing wheel to push soil inwardly over the trench. This system works far better at preparing a growing environment than smoother surface wheels that apply the same pressure in the center of the trench opening, creating maximum compaction on top of the seed instead of firming the soil on its sides.





All-Purpose “Heads Up” Opener

All-purpose openers feature wide set half-inch parallel links for better depth control and dead-on accuracy in seed placement. Two 400 lbs. retention springs can generate 450+ lbs. at the pinch point of the opener blade. Down pressures can be easily adjusted from no-till to conventional seeding without tools. 15" diameter x 3 1/2-millimeter “Heads Up” opener blades eliminate pairing of rows, premature leading blade wear and side loading of bearings. An eight-inch stagger helps passage of residue through the seeding system when seeding in heavy-residue, no-till situations.

9300, 9400 Series drills

Seed Hoppers

The all-welded seed hoppers are constructed of heavy 16-gauge steel with 3/16" thick end plates. The bolt-in hopper bottoms allow multiple row spacing using the same hopper.

9300 Series (2.4 bu.), 9421 Series, 9400 Series (3.75 bu.)

Seed Meters & Adjustments

The infinitely variable meters are very gentle on seeds and provide a continuous flow of material, unlike fluted meters that drop seed in groups. This design has a better singulation effect than dumping small groups of seed (*as in fluted meter operations*). Rates are easily changed with a lever adjustment system on each hopper system. A small-seeds (*legume*) seeding hopper can be added to all models.

Seed Meter: All models. Adjustment Lever: 9435 Series

Walk Boards

9000 series drills feature an automatically locking walk board. Lift the walk board to the raised position and the lock will engage, placing the pin in the lock position.

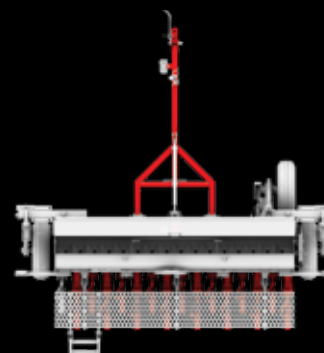
The walk board is deep and the ladder folds over the walk board rather than under it. Attached to the ladder mount is a folding handle to assist the operator in mounting the walk board.

Walk Boards: All models. Assist Handle: 9435 Series

Extra Heavy Frames

Heavy-duty 3/8" x 7" x 7" main frames are coupled to a 3/8" x 3" x 5" opener frame to create a sound foundation for all Sunflower grain drills.

9300, 9400 Series drills



9312-10



9412-12



9413-15

9312

Working widths from 7' 6" to 15'

Ideal for pastures that require reseeding due to drought or over grazing, the Sunflower pasture drill is also effective for seeding along highways and electrical highline right-of-ways. Smaller farming operations have found this tough, compact grain drill can handle all of their conventional and no-till seeding needs. Sunflower's 9312 pull-type end-wheel design positions the all-purpose openers and the end wheels in line for uniform performance, even on rough terrain. When seeding side hills and sloped fields, the end wheels act as stabilizers to hold the openers steady and do not subject the openers to the extreme side pressures encountered by caddy-mounted units. The tough 9312 pasture drill is built with the same heavy frame and quality guidelines as the rest of Sunflower's grain drill line.

- End-wheel design with drive wheel in front of openers

9412

Working widths of 10' to 12' 6"

For maximum productivity, Sunflower developed the 9412 three-point-mounted all-purpose grain drill line. The 9412 is one of the only mounted true no-till grain drills on the market. It can easily be hand-adjusted from conventional seeding right through residue-laden no-till. This heavy-weight rigid seeder is offered in widths of 10' and 12 ½' and adapts to either category II or III hitches. If your tractor is missing a three-point or you want to operate a drill larger than your tractor can handle, simply convert the 9412 to a pull-type by utilizing Sunflower's transport pull hitch.

- Three-point mounted design with optional transport pull hitch
- Seed-metering rates on each seed box are changed by a simple screw-type adjustment
- Drive wheels can be slid in or out on the hex shafts for different row spacing

9413

Working widths of 15' to 20'

The Sunflower model 9413 grain drill (*in 15' and 20' models*) is equipped with large hoppers that hold 3 ¾ bushels of seed per foot. This big capacity and ease of operation are key factors in maintaining Sunflower drills as North American farmers' first choice. Whether it's no-till, minimum-till or conventional seeding, the Sunflower 9413 is easily adjusted to do it all. Heavy-duty construction produces built-in weight and strength to meet the most demanding no-till conditions. If conventional or minimum tillage seeding is called for, the all-purpose "Heads Up" opener down pressures can be quickly adjusted without tools.

- Three-point-mounted design with optional transport pull hitch
- Seed-metering rates on each seed box are changed by a simple screw-type adjustment
- Large-capacity seed boxes hold 3 ¾ bushels per foot of seed

9421

Working widths from 20' to 30'

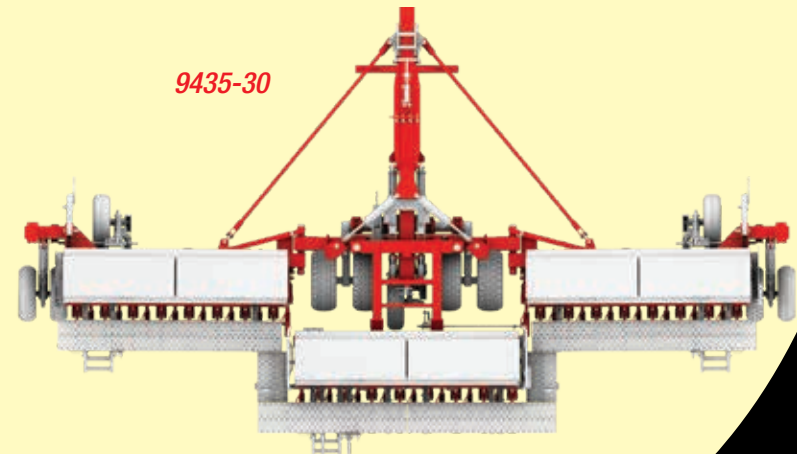
Sunflower's 9421 two-section grain drill sports a narrow transport width compared to wide, rigid, mounted designs that are difficult to move between fields. Keeping the operator in mind, Sunflower's two-section series provides valuable flexibility both during transport and in the field. The "in-line" 3-bushel-per-foot grain boxes facilitate seed filling and align the openers for superior control, resulting in uniform seed placement. All Sunflower multi-purpose drills feature a full 8" of front to rear stagger between opener units. The Sunflower 9421 is an excellent alternative to a higher priced split-row planter.

- Simple fold system, no electrical switches
- Two-section design allows center flexibility and a narrow transport width
- Low-profile seed boxes feature a seed capacity of 3 bushels per foot with new, wider lids
- Tractor draw bar mount design

9435

Working widths of 30' or 40'

Sunflower's 9435 grain drill line features a unique three-section frame design that delivers unmatched flexibility and seeding performance in all field conditions. The staggered grain box design eliminates all box contact in steep or undulating terrain and its straight-end walls ensure equal amounts of seed over all meters. Available with either 7 ½" or 10" spacing, the 9435 can be tailored to your operation. With an optional 400-gallon liquid fertilizer tank, the 9435 can be your single source for conventional seeding right through no-till. Sunflower truly is "seeding quality."



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There's a pride and responsibility built into every piece of equipment we sell, and we make it our mission to keep your machine running smoothly, every single time you turn the key.

Ask your dealer about AGCO Protection, an extended warranty program that prolongs your coverage and safeguards against the cost of sudden breakdowns.

AGCO replacement parts are made to the same high standards as those used on the assembly line, so your AGCO equipment will stay running like new. Talk to your dealer or shop at parts.agcocorp.com to find the genuine AGCO parts you need.

Focus on your operation, not on scheduling maintenance. With AGCO GenuineCare plans, your service intervals are predetermined. You'll avoid downtime and be able to better plan your costs thanks to transparent pricing, bundles and discounts.





FALLOW TILLAGE

Model	Working width ft. in. (m) Shank spacing 12" 15"	Transport width ft. in. (m)	Transport height ft. in. (m)	Est. weight lbs. (kg.) Shank spacing 12" 15"	HP requirements
3000					
3030	21' & 25' (6.4 & 7.6)	14'5" (4.4)	10'8" & 12'4" (3.2 & 3.8)	5,944 & 6,160 (2,696 & 2,794)	6 to 8 HP/ft.
3040	28' & 32' (8.5 & 9.7)	21'2" (6.4)	10'8" & 12'4" (3.2 & 3.8)	8,044 & 8,274 (3,649 & 3,753)	
3050-35	35' (10.7)	21'3" (6.5)	12'8" (3.9)	9,759 (4,427)	
3060-42	42' (12.8)	22'8" (6.9)	13' (4.0)	11,874 (5,386)	
3070-49	49' (14.9)	24' (7.3)	15'6" (4.7)	13,650 (6,192)	
3300					
3372-40	40' (12.2)	24' (7.3)	11'9" (3.6)	12,718 (5,769)	6 to 8 HP/ft.
3392-52	52' (15.8)	26'5" (8.1)	13'9" (4.2)	15,280 (6,931)	
3600					
3662-30	30'6" (9.3)	15'6" (4.7)	N/A	7,787 (3,532)*	6 to 8 HP/ft.
3672-35	35'6" (10.8)	20'6" (6.3)		8,742 (3,965)*	
3692-45	45'6" (7.0)	22'9" (7.0)		13,733 (6,229)*	
3612-55	55'6" (7.7)	25'3" (7.7)		17,803 (8,075)*	

SEEDBED PREP

Model	Working width ft. in. (m)	Transport width ft. in. (m)	Transport height ft. in. (m)	Est. weight lbs. (kg.)	HP requirements
5035					
5035-18	18'6" (5.7)	14' (4.3)	8'5" (2.6)	6,000 (2,721)	5 to 7 HP/ft.
5035-20	20'6" (6.3)		9'4" (2.9)	6,350 (2,880)	
5035-22	22'6" (6.9)	13' (3.9)	10'4" (3.2)	7,100 (3,220)	
5035-24	24'6" (7.5)		11'3" (3.4)	7,450 (3,379)	
5035-26	26'6" (8.1)		12'1" (3.7)	7,900 (3,583)	
5035-28	28'6" (8.7)		13'2" (4.0)	8,250 (3,742)	
5035-30	30'6" (9.3)	17' (5.2)	12'1" (3.7)	9,300 (4,218)	
5035-32	32'6" (9.9)		13'2" (4.0)	9,650 (4,377)	
5035-34	34'6" (10.5)		14'2" (4.3)	10,100 (4,581)	
5035-36	36'6" (11.1)		15'1" (5.2)	10,450 (4,740)	
5056					
5056-45	45' (13.7)	17'6" (5.3)	12'5" (3.8)	17,677 (8,018)	5 to 7 HP/ft.
5056-49	49' (14.9)		14'5" (4.4)	18,508 (8,395)	
5056-55	55' (16.8)	19'6" (5.9)	14'5" (4.4)	20,336 (9,224)	
5056-59	59' (18.0)		16'6" (5.0)	21,074 (9,559)	
5056-63	63' (19.2)		16'6" (5.0)	21,823 (9,899)	
6333					
6333-22	21'9" (6.7)	13'4" (4.1)	11'3" (3.4)	12,250 (5,556)	8 to 10 HP/ft.
6333-25	24'9" (7.6)		12'6" (3.8)	12,932 (5,866)	
6333-28	27'9" (8.5)		14'6" (4.4)	14'4" (4.4)	
6333-31	30'9" (9.4)	15,970 (7,244)			
6333-34	33'9" (10.3)	17'6" (5.4)	15'2" (4.6)	16,895 (7,663)	
6333-37	36'9" (11.2)			17,290 (7,843)	
6433SW					
6433-37	36'9" (11.1)	14'6" (4.4)	14'0" (4.3)	21,175 (9,605)	8 to 10 HP/ft.
6433-40	39'9" (12.2)	17'6" (5.4)	14'0" (4.3)	22,100 (10,024)	
6433-43	42'9" (13.1)	17'6" (5.4)	14'6" (4.4)	22,500 (10,205)	
6631					
6631-21	20'2" (6.1)	13'5" (4.1)	10'10" (3.3)	14,405 (6,534)	9 to 11 HP/ft.
6631-24	22'7" (6.9)		12'2" (3.7)	15,683 (7,114)	
6631-27	26'3" (8.0)		13'10" (4.2)	17,633 (7,998)	
6631-29	28'8" (8.7)		15'0" (4.6)	18,705 (8,485)	
6631-31	30'0" (9.1)	17'5" (5.3)	13'10" (4.2)	19,885 (9,020)	
6631-33	32'6" (9.9)		15'0" (4.6)	20,957 (9,506)	
6631-36	34'9" (10.6)		16'1" (4.9)	21,986 (9,973)	
6631-35	32'7" (9.9)	15'4" (5.5)	13'7" (4.1)	24,749 (11,226)	
6631-40	37'5" (11.4)	17'8" (5.5)	13'7" (4.1)	28,824 (13,075)	

NC = Narrow center, WC = Wide center, NT = Narrow transport series, SW = Split Wing

SEEDBED PREP (cont.)

Model	Working width ft. in. (m)	Transport width ft. in. (m)	Transport height ft. in. (m)	Est. weight lbs. (kg.)	HP requirements
6631NT					
6631-19NT	19'0" (5.7)	9'6" (2.9)	11'11" (3.6)	14,182 (6,433)	9 to 11 HP/ft.
6631-21NT	21'3" (6.5)	9'6" (2.9)	13'2" (4.0)	15,330 (6,949)	

DISC HARROWS

Model	True cutting width ft. in. (m)	Transport width ft. in. (m)	Transport height ft. in. (m)	Est. weight lbs. (kg.)	Weight per ft. of cut lbs. (kg.)	HP requirements
1212						
1212-10	10'6" (3.2)	11'4" (3.5)	N/A	3,978 (1,804)	398 (180)	8 to 10 HP/ft.
1212-12	11'10" (3.4)	12'8" (4.0)		4,199 (1,904)	350 (159)	
1212-13	13'3" (4.0)	14'1" (4.3)		4,851 (2,200)	373 (169)	
1212-15	14'7" (4.5)	15'5" (4.7)		5,069 (2,299)	337 (153)	
1234						
1234-18	18'11" (5.5)	<13' (4.0)	10'2" (3.1)	9,829 (4,458)	517 (234)	8 to 10 HP/ft.
1234-21 (NC)	21'8" (6.6)		11'5" (3.5)	10,690 (8,931)	505 (229)	
1234-21 (WC)	21'8" (6.6)	<16' (4.9)	11'5" (3.5)	12,184 (5,526)	507 (230)	
1234-24 (NC)	24'5" (7.5)	<13' (4.0)	12'10" (3.7)	12,578 (5,705)	507 (230)	
1234-24 (WC)	24'5" (8.3)	<16' (4.9)	11'3" (3.4)	12,422 (5,634)	514 (233)	
1234-27	27'2" (8.9)		12'7" (3.9)	13,583 (6,161)	510 (231)	
1234-29	29'11" (9.1)		13'11" (4.0)	15,628 (7,089)	504 (228)	
1234-32	32'8" (10.0)		15'4" (4.7)	17,098 (7,755)	534 (242)	
1436NT						
1436-19NT	18'10" (5.7)	9'7" (2.9)	11'7" (3.5)	13,983 (6,342)	742 (337)	10 to 12 HP/ft.
1436-21NT	21'7" (6.6)	9'7" (2.9)	12'1" (3.7)	15,571 (7,063)	721 (327)	
1436						
1436-24	22'8" (7.2)	13'6" (4.1)	11'10" (3.6)	16,732 (7,590)	696 (316)	10 to 12 HP/ft.
1436-27	25'5" (7.7)		13'3" (4.0)	18,269 (8,287)	700 (318)	
1436-29	28'2" (8.5)	14'7" (4.4)	19,700 (8,936)	680 (308)		
1436-31	29'5" (9.0)	17'6" (5.3)	13'4" (4.1)	20,095 (9,115)	681 (309)	
1436-33	32'2" (9.9)	14'7" (4.4)	14'7" (4.4)	21,489 (9,747)	668 (303)	
1436-36	34'11" (10.8)	15'11" (4.9)	15'11" (4.9)	22,511 (10,211)	652 (296)	
1436SW						
1436-33SW	32'10" (10.0)	15'6" (4.7)	13'6" (4.1)	21,443 (9,726)	652 (296)	10 to 12 HP/ft.
1436-38SW	38'2" (11.6)	17'10" (5.4)	13'6" (4.1)	22,740 (10,315)	597 (271)	

GRAIN DRILLS

Model	Working width ft. (m)	Transport width ft. (m)	Total hopper capacity bu. (L)	Weight lbs. (kg) w/ 7.5" row spacing	Power requirements
9300					
9312-7	7.5 (2.3)	10.75 (3.28)	18 (634)	3,859 (1,750)	5 to 10 hp/ft at seeding depth
9312-10	10 (3)	13.25 (4.04)	24 (846)	4,840 (2,195)	
9312-15	15 (4.6)	18.3 (5.59)	36 (1,269)	7,222 (3,276)	
9400					
9412-10	10 (3)	11.5 (3.51)	24 (774)	3,876 (1,758)	5 to 10 hp/ft at seeding depth
9412-12.5	12.5 (3.8)	15 (4.57)	37 (321)	5,110 (2,318)	
9413-15	15 (4.6)	18.1 (5.52)	45 (1,586)	6,219 (2,821)	
9413-20	20 (6.1)	23 (7.0)	60 (2,114)	8,063 (3,657)	
9421-20	20 (6.1)	13.92 (4.25)	60 (2,114)	11,300 (6,011.6)	
9421-25	25 (7.6)		75 (2,642.5)	13,450 (7,155.4)	
9421-30	30 (9.14)		90 (3,171)	15,610 (8,304.5)	
9435-30	30 (9.14)	13.42 (4.09)	112.50 (3,947)	19,917 (3,947)	
9435-40	40 (12.2)		150 (5,286)	24,536 (11,130)	

NC = Narrow center, WC = Wide center, NT = Narrow transport series, SW = Split Wing



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