

# 1000 SERIES DISC HARROWS

1212 | 1234 | 1435 | 1444 | 1544 | 1550 | 1710 | 1730 | 1810 | 1830

**SUNFLOWER**

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**SUNFLOWER. THE ULTIMATE ANSWER.**



# THIS IS SUNFLOWER.

Quality and service never go out of style, regardless of the era or the industry. So it's easy to see why Sunflower has grown to become one of the most recognized names around the world for top-quality agricultural products.

It all started more than 70 years ago when Charles Fleming and Orland Hazen formed a partnership in 1941 and bought the Sunflower Express Truck Line. Four years later, in 1945, they bought the patent rights to the "Diamond Packer", and ventured into the farm equipment market through production in a small garage in Beloit, Kansas.

Using a series of heavy-weight cast wheels, the Diamond Packer formed a series of diamond shaped holes in the ground, when pulled behind a plow or disc, to prevent wind and water erosion. Sunflower eventually sold the product line to a company in southwest Kansas, to concentrate on other ventures ... like the need for flexible tillage tools to follow field contours and terraces. In 1961, Sunflower introduced the three-section, flexible stubble mulch blade plow — the first of its kind on the market and Sunflower's first flexible tillage product.

Six years later, Sunflower introduced a flexible chisel plow, followed in 1968 by a flexible offset disc. In 1971, the entire tillage line was redesigned to add more sales appeal in a market that had grown to

include most of the Midwest's "High Plains" area. In fact, Sunflower went through several years where sales and earnings were doubling every year.

In the mid-70s, Sunflower's engineering team developed the idea of combining a regular two-section offset disc with another left-handed version, making a double offset disc with four sections.

In addition to patenting the four-section disc in 1975, Sunflower also began expanding its sales into the Corn Belt with a new coultter chisel. At the same time, the company moved to its current location on the outskirts of Beloit — the third move since the company's formation.

From that time, Sunflower has expanded the facilities two additional times; been purchased and consolidated by several previous owners, and acquired a number of other companies, including Flex-King, Richardson Manufacturing Co., the Best Grain Drill line from Best Manufacturing, and Richardton Dump Wagons.

In November 2002, Sunflower was acquired by AGCO Corporation. Today, as part of AGCO Corporation, Sunflower tools carry on the quality and service tradition with proven design, coupled with new technology and unprecedented customer service that hasn't wavered in seven decades.



# 1212 DISC HARROW

*Sunflower strength in a small package.*

Smaller acreage needs shouldn't mean settling for a light-weight disc harrow. That's certainly not the case with the Sunflower Model 1212. Built with all the strength and performance features found on larger Sunflower disc harrows — including a heavy mainframe — the Model 1212 is capable of performing primary and finish discing operations in even the toughest conditions. Choose from four rigid-frame models that match tractors up to 110 horsepower and discover why Sunflower is called North America's best built disc.

**Sunflower - The Ultimate Answer**



- 1. TRANSPORT SAFETY** - Safety lighting and SMV sign are standard equipment on every Sunflower machine.
- 2. FAST, EASY LEVELING** - Leveling the disc from front-to-rear is very simple with the easily accessible leveling screw. Heavy-duty compression springs cushion the front and rear gangs when crossing ditches or rough terrain.
- 3. DUAL WHEELS** - Dual wheels provide stability and even penetration across the width of the machine. 2" slip in spindles with triple lip seals will provide years of trouble-free service. Dual wheels are standard on 13'-15' models and optional on the 10'-12' machines.
- 4. C-FLEX™ BEARING STANDARDS** - C-Flex™ bearing standards absorb disc gang shock created by stumps, rocks, and normal discing. This extends bearing, spool and disc blade life.
- 5. MAINTENANCE-FREE LIFT** - Lift system is equipped with maintenance-free UHMW sleeves which eliminates the high wear, metal-to-metal contact points.
- 6. SOLID COMPONENTS THROUGHOUT** - Available with 22" or 24" disc blades with 8 1/2" spacing, which enhance residue coverage and increase ability to penetrate the soil. Large 1 3/4" gang shafts with a spring washer on the ends of the gangs, provide a solid foundation for maximum gang performance.
- 7. SELF-ADJUSTING SCRAPERS** - C-Flex™ bearing arm mounted disc blade scrapers stay in adjustment moving with the disc gangs, unlike frame mounted scraper assemblies.
- 8. VERSATILE HITCH** - Double lip hitch clevis is standard.

## 1212 DISC HARROW SPECS

MODEL NUMBER	CUTTING WIDTH (m)	TRANSPORT WIDTH (m)	*EST. WT. (kg)	WEIGHT PER FT. OF CUT (kg)
1212-10	10'-6" (3.2)	11'-4" (3.5)	3,978 lbs. (1804)	398 lbs. (180)
1212-12	11'-10" (3.4)	12'-8" (4)	4,199 lbs. (1904)	350 lbs. (159)
1212-13	13'-3" (4)	14'-1" (4.3)	4,851 lbs. (2200)	373 lbs. (169)
1212-15	14'-7" (4.5)	15'-5" (4.7)	5,069 lbs. (2299)	337 lbs. (153)

\*Weight is figured with 22" blades.

We are continually striving to improve our machines; therefore, these specifications are subject to change without notice.



# 1234 DISC HARROW

*The Smart Decision For Variable Conditions.*

Whether you're discing wheat stubble after harvest or preparing a seedbed prior to spring planting, the Model 1234 Disc Harrow has the adaptability to handle the job. The all-welded frame on this medium-weight model still has the brawn required for uniform penetration in tough soils; yet excellent flotation when a lighter touch is needed. Either way, you're assured of uniform depth control and level discing via your choice of 22- or 24-inch, full-concavity disc blades.

In addition, three flexible sections ensure the 1234 follows the contours for smooth, even tillage in any field. Of course, like all Sunflower disc harrows, the 1234 is loaded with features that give it a distinctive edge over competitive brands.

**Sunflower - The Ultimate Answer**



**1. EASY LEVELING, SIMPLE DEPTH CONTROL**

- Leveling the disc from front-to-rear is very simple with manual or optional hydraulic adjustment. Sunflower utilizes heavy-duty compression springs on each side of the pivot point to cushion both front and rear gangs, important when crossing ditches or rough terrain. The front-mounted depth control allows the operating depth of the entire disc to be adjusted with a single setting. This simple adjustment is easy, safe and precise.

**2. SWIVEL GAUGE WHEELS**

- Heavy-duty gauge wheels with exclusive parallel link and swivel design allows the gauge wheel to turn with the disc instead of creating a furrow or bending due to side loading.

**3. RUGGED COMPONENTS**

- Large 22" or 24" full-concavity disc blades maximize residue coverage and soil penetration. Large 1 3/4" gang bolts teamed with spring-end washers

provide a strong, stay-tight disc gang assembly. The 1234 offers 8 1/2" blade spacing or 7 1/2" front and 8 1/2" rear spacing on some models.

**4. SELF-LOCKING FOR TRANSPORT**

- Automatic transport locks engage as the wings are folded for added safety and convenience. This eliminates the need for the operator to crawl on the frames to install pins.

**5. NARROW TRANSPORT**

- Sunflower's 1234 disc folds hydraulically to narrow transport widths. The 18', 21' NC\* and 24' NC\* feature narrow center frames that allow these discs to fold to less than 13'. Larger sizes fold to under 16'. Increased ground clearance during transport makes travel from one field to another much easier. \*Narrow Centers

**6. MAINTENANCE-FREE LIFT**

- The 1234 lift system is equipped with maintenance-free (no-grease) UHMW plastic sleeves which eliminate high wear, metal-to-metal contact points.

**1234 DISC HARROW SPECS**

MODEL NUMBER	CUTTING WIDTH (m)	TRANSPORT HEIGHT (m)	BLADE SPACING	*EST. WT. (kg)	WEIGHT PER FT. OF CUT (kg)
1234-18	18'-11" (5.5)	10'-2" (3.1)	8-1/2" F/R	9,829 lbs. (4458)	517 lbs. (234)
1234-21 (NC)	21'-8" (6.6)	11'-5" (3.5)	8-1/2" F/R	10,690 lbs. (8931)	505 lbs. (229)
1234-21 (WC)	21'-8" (6.6)	11'-5" (3.5)	7-1/2" F 8-1/2" R	12,184 lbs. (5526)	519 lbs. (235)
1234-24 (NC)	24'-5" (7.5)	12'-10" (3.7)	8-1/2" F/R	12,578 lbs. (5705)	507 lbs. (230)
1234-24 (WC)	24'-5" (8.3)	11'-3" (3.4)	7-1/2" F 8-1/2" R or 8-1/2" F/R	12,422 lbs. (5634) 12,184 lbs. (5526)	514 lbs. (233) 507 lbs. (230)
1234-27	27'-2" (8.9)	12'-7" (3.9)	7-1/2" F 8-1/2" R or 8-1/2" F/R	13,583 lbs. (6161) 13,427 lbs. (6090)	510 lbs. (231) 497 lbs. (225)
1234-29	29'-11" (10)	13'-11" (4)	7-1/2" F 8-1/2" R or 8-1/2" F/R	15,628 lbs. (7089) 15,370 lbs. (6972)	504 lbs. (228) 512 lbs. (232)
1234-32	32'-8" (10)	15'-4" (4.7)	7-1/2" F 8-1/2" R or 8-1/2" F/R	17,098 lbs. (7755) 16,816 lbs. (7627)	534 lbs. (242) 526 lbs. (238)

\*Weight is figured with 22" blades and 21'-32' models show weight with each spacing option. We are continually striving to improve our machines; therefore, these specifications are subject to change without notice.

# 1435 DISC HARROW

*Number One For A Reason.*

You can find any number of reasons the Model 1435 is North America's "Number One" disc harrow. For one, the 1435 offers working widths from 21' to 40' so you can cover more ground with each pass. Yet, they fold to a narrower transport width than smaller competitive disc harrows. Thanks to Sunflower's patented split-wing technology, the 37' and 40' models also offer a lower transport height than most disc harrows in their size class. Wide working widths, heavy construction, easy transport and top-of-the-line features ... no wonder it's our most popular model.

Sunflower - The Ultimate Answer



The long 7' hitch allows unrestricted turns resulting in less tire to frame contact. The lower hitch position accommodates the drawbars of track tractors.



- 1. EXCELLENT ROAD STABILITY** - 1435-21' through 29' features a wider center wheel placement for improved road stability and field performance.
- 2. HYDRAULIC LEVELER OPTION** - An optional hydraulic front-to-rear leveler allows the operator to fine tune the 1435 from his tractor's seat. A well-adjusted disc not only pulls easier, but leaves the field in better condition.
- 3. RUGGED COMPONENTS THROUGHOUT** - Available with 22" or 24" Boron blades (recommended in rock areas) with 8 3/4" blade spacing. Rollable Boron blades available in 24" on certain models (not recommended in rock areas). 1 3/4" alloy steel gang shafts with a spring steel end washer and nut at each end of the arbor bolt to keep the gangs factory tight. Impact absorbing C-Flex bearing standards and trunnion mounted gang bearings are standard equipment on all Sunflower disc harrows.
- 4. REDUCED TRANSPORT HEIGHT** - Split wing technology reduces transport height of the wider working 37' to 40' models.
- 5. MAINTENANCE-FREE PIVOTS** - UHMW now utilized in the pivot and thrust areas of the gauge wheels, more service free features than competitive tools.
- 6. BUILT-IN PROTECTION** - Permanent safety light bracket mounts reduce the chance of loss or damage due to weed and brush entanglement. ASAE compliant.
- 7. UHMW WING PIVOTS** - All greasing has been eliminated in both the wing hinges and all transport connections by incorporating UHMW technology into the high wear areas.
- 8. ADVANCE LIFT DESIGN** - Lift adjustment facilitates frame leveling and promotes smoother trash flow under the 1435 frame.

- 9. SPLIT CENTER ROCKSHAFT** - The split center rockshaft design improves wheel placement for better disc gang control and eliminates twisting of the lift axle.
- 10. LOW WEAR TRUNNION BEARINGS** - Sunflower's trunnion bearings provide positive alignment, eliminate wear between the bearing and housing and ensure positive lubrication. As the C-Flex™ bearing standards move, gang bearings have to constantly realign. In conventional bearing systems the bearing moves within the housing. This eventually leads to wear between the bearing and housing, then bearing failure, because grease cannot get into the bearing. With the trunnion bearing there is never any wear between the bearing and housing and there is always positive lubrication. The trunnion bearing features triple lip seals that cannot be damaged by daily greasing and metal washers that protect the seals from being damaged by stalks or material wrapping around the gang shaft.

### 1435 TANDEM DISC SPECS

MODEL NUMBER	CUTTING WIDTH (m)	TRANSPORT WIDTH (m)	TRANSPORT HEIGHT (m)	EST. WT. (kg)
1435-21	20'-7" (6.3)	13'-5" (4.1)	9'-4" (2.9)	12,500 lbs. (5670)
1435-23	23'-4" (7.1)	13'-5" (4.1)	10'-6" (3.2)	14,190 lbs. (6436)
1435-26	26'-2" (8)	13'-5" (4.1)	11'-9" (3.6)	14,886 lbs. (6752)
1435-29	28'-11" (8.6)	13'-5" (4.1)	13'-5" (4.1)	16,270 lbs. (7380)
1435-30	30'-4" (9.3)	17'-8" (5.4)	11'-9" (3.6)	17,546 lbs. (7959)
1435-33	33'-1" (10.1)	17'-8" (5.4)	13'-5" (4.1)	19,573 lbs. (8878)
1435-36	35'-10" (10.7)	17'-8" (5.4)	15'-2" (4.6)	19,980 lbs. (9063)
1435-37SW	37'-3" (11.3)	18'-2" (5.5)	13'-6" (4.1)	23,978 lbs. (10876)
1435-40SW	40' (12.2)	18'-2" (5.5)	13'-6" (4.1)	24,590 lbs. (11154)

Specifications are with 24" blades, 1/4" thick.

Horsepower requirements for discs will vary greatly with the type of soil, surface residue, moisture conditions, size of blades, attachments, depth of tillage, speed and many other related factors. To be able to pull the disc at maximum depth, a minimum of 6-10 horsepower per foot of cut may be required.

We are continually striving to improve our machines; therefore, these specifications are subject to change without notice.

# 1444 DISC HARROW

*This is What True Flexibility Looks Like.*

You'll find plenty of disc harrows on the market that claim to flex and follow contours. But one thing soon becomes obvious. They're all built with three sections. For real flexibility, take a look at the Model 1444. Even the smallest model in the series, which features a cutting width of 30' 6", features four sections to follow terraces and uneven terrain, while gliding over rocks that can damage other disc harrows. All the while the heavy frame protects the unit from stress and strain as walking tandems and outboard gauge wheels prevent frame bounce and uneven penetration. Who says "you can't have your cake and eat it too"?

Sunflower - The Ultimate Answer



Independent four-section flexibility enables the machine to conform to extremely uneven ground conditions and provides unmatched protection against rock damage. Each section is able to flex from side-to-side and front-to-rear, making the Sunflower four-section disc the #1 choice for farmers with terraced ground or rocky soils.



- 1. SELF-LOCKING** - Automatic transport locks are engaged as the wings are folded, eliminating the need to crawl on the frames to insert pins.
- 2. KEEP HOSES ORGANIZED** - Hose holder with storage locations keep the hoses paired together and off the ground to prevent contamination to your hydraulic system.
- 3. GREASE-FREE WING HINGES** - All greasing is eliminated on the heavy-duty wing hinges with the maintenance-free UHMW plastic sleeves.
- 4. TRANSPORT SAFETY** - Standard safety lights and reflective markings are ASAE compliant to meet today's stringent standards.
- 5. EASY FRAME LEVELING** - Independent front-to-rear leveling of each half of the disc is simple with the conveniently located self-leveler. Optional hydraulic levers available.
- 6. SIMPLE DEPTH CONTROL** - Single point depth control on each center section, allows you to fine tune the disc for optimum performance.
- 7. PIVOTING GAUGE WHEELS** - Exclusive parallel link and swivel design allows the gauge wheel to turn with the disc instead of creating a furrow or bending due to side loading.

- 8. WALKING TANDEM**s - Walking tandems on the wings and center sections prevent frame bounce and uneven penetration.
- 9. SMOOTHER TRASH FLOW** - Conveniently located lift adjustment facilitates frame leveling and promotes smoother trash flow under the frame.
- 10. MAINTENANCE-FREE PIVOT POINTS** - Greasing has been eliminated at all transport connections by incorporating UHMW plastic sleeves into the high wear areas.
- 11. SOLID COMPONENTS** - Available with 22", 24" or 26" disc blades in 8 1/2" spacing, which enhance residue coverage and increase ability to penetrate the soil. Large 1 3/4" gang shafts with a spring washer on the ends of the gangs, provide a solid foundation for maximum gang performance.

## 1444 DISC HARROW SPECS

MODEL NUMBER	CUTTING WIDTH (m)	TRANSPORT WIDTH (m)	TRANSPORT HEIGHT (m)	GANG STANDARDS FRONT/REAR	*EST. WT. (kg)
1444-30	30'-6" (9.3)	18'-2" (5.5)	12'-1" (3.7)	12/12	17,506 lbs. (7940)
1444-33	33'-4" (10.2)	18'-2" (5.5)	13'-2" (4)	12/12	18,800 lbs. (8527)
1444-36	36' (11)	19'-9" (6.1)	13'-8" (4.2)	16/14	20,014 lbs. (9078)
1444-40	40' (12.2)	19'-9" (6.1)	15'-4" (4.7)	20/14	23,865 lbs. (10825)

\*Weight is figured with 22" blades.

We are continually striving to improve our machines; therefore, these specifications are subject to change without notice.



# 1544 DISC HARROW

*Built For The Road And The Field.*

When you build a disc harrow like the Model 1544 with the strength and heft to penetrate tough soil and heavy residue, you're talking about a lot of weight ... particularly on acre-hungry 42' and 45' models. Unfortunately, many manufacturers forget that fact. And flotation tires can be expensive.

That's why you'll find eight tires on four sets of walking tandems on the ground during transport. The benefits include safer transport and better flotation in the field. In the meantime, the 1544 offers unmatched flexibility in rolling terrain and terraced ground, thanks to its four-section design and heavy-duty compression springs on each pivot point.

**Sunflower - The Ultimate Answer**



Independent four-section flexibility enables the machine to conform to extremely uneven ground conditions and provides unmatched protection against rock damage. Each section is able to flex from side-to-side and front-to-rear, making the Sunflower four-section disc the #1 choice for farmers with terraced ground or rocky soils.



**1. AMPLE WEIGHT SUPPORT** - Eight tires on four sets of walking tandems are on the ground at all times during transport for added safety and stability. This is a real advantage when compared to dual tires on competitive models. Large 2 1/4" diameter spindles and eight bolt hubs and wheels ensure years of dependable service.

**2. WALKING TANDEMS** - Walking tandems at the transport locations effectively distribute the folded implement weight during transport, increasing tire life. Walking tandems under the wing frames not only provide smooth performance in rough fields, but readily control bounce and limit the frame stress associated with out of ground turning.

**3. SUPERIOR COMPONENTS THROUGHOUT** - Available with 22" or 24" disc blades in 8 3/4" spacing, which enhance residue coverage and increase ability to penetrate the soil. Large 1 3/4" gang shafts with a spring washer on the ends of the gangs, provide a solid foundation for maximum gang performance.

**4. FAST, EASY FRAME LEVELING** - Level each half of the disc from front-to-rear with a single adjustment. Manual crank is standard, or choose the optional hydraulic adjustment. Sunflower features heavy-duty compression springs on each side of the pivot point to cushion both front and rear gangs, important when crossing ditches or rough terrain.

**5. SINGLE-POINT DEPTH CONTROL** - This front-mounted adjustment allows the operating depth of each half of the disc to be set through a single setting. This simple adjustment is easy, safe and precise.

**6. MAINTENANCE-FREE PIVOT POINTS** - Greasing has been eliminated at all transport connections by incorporating UHMW plastic sleeves into the high wear areas.

### 1544 DISC HARROW SPECS

MODEL NUMBER	CUTTING WIDTH (m)	TRANSPORT WIDTH (m)	TRANSPORT HEIGHT (m)	*EST. WT. (kg)	WEIGHT PER FT. OF CUT (kg)
1544-42	42' (12.8)	22'-2" (6.8)	14'-7" (4.5)	27,200 lbs. (12338)	648 lbs. (294)
1544-45	44'-9" (13.7)	22'-2" (6.8)	15'-8" (4.5)	28,975 lbs. (13143)	644 lbs. (292)

\*Weight is figured with 22" blades.

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# 1550 DISC HARROW

*Flexibility With An Appetite For Acres.*

With working widths up to 50 feet, Sunflower 1550 Series Five Section Disc Harrows can cover more than 30 acres per hour and still provide unmatched flexibility over uneven terrain. Built with the strength to handle high-horsepower tractors it also boasts over 650 pounds per foot or 230 plus pounds per blade to cut through tough crop residue and packed soil. When time is short and the fields are large, the 1550 is the obvious answer.

Sunflower - The Ultimate Answer



**1. DUPLEX WING HINGES** - Duplex wing hinges (patent pending) provide the wings with two pivot points. The lower pivot, closer to the blades, allows more down flex (10°) than competitive five section tools (5° to 7°). In addition, it maintains proper blade spacing. The upper pivot provides the offset needed to fold the wing frames for transport.

**2. NARROW TRANSPORT** - Moving from field to field is easy and stress free thanks to the narrow width and low transport dimensions of the SF1550 series tandem disc harrows.

**3. MAINTENANCE-FREE GAUGE WHEELS** - Disc gang control is augmented by a gauge wheel on each wing. The gauge wheels are designed into the disc harrow and are located near the outside ends of the disc gangs for optimum gang control. Vertical adjustments are made with parallel linkage keeping constant the angle of the wheel arm to the soil. The gauge wheels pivot on maintenance free UHMW bushings.

**4. MORE WEIGHT-CARRYING CAPACITY** - Walking Triple Tandems (patent pending) located in the center section have 50% more weight carrying capacity than conventional walking tandems. A total of fourteen tires supply unequalled flotation and implement carrying capacities.

## 1550 DISC HARROW SPECS

MODEL NUMBER	IMPLEMENT CARRIAGE	CUTTING WIDTH (m)	TRANSPORT WIDTH (m)	TRANSPORT HEIGHT (m)	BLADE SPACING (m) & BLADE SIZE	WEIGHT (kg)	WEIGHT PER FT. OF CUT (kg)
SF1550-47	Center (6) 12.5L (GY-FI-F) tires with 15x10 wheels and 8 bolt, 2.75" hubs. Wings (8) 12.5L, 12 ply tubeless tires with 15x10 wheels and 6 bolt 2" hubs.	47' (14.3) 24' (7.3)	18' 2" (5.5)	13' 11" (4)	8.75" (2.7)	31,302 lbs. (14198)	666 lbs. (302)
SF1550-50	Center (6) 12.5L (GY-FI-F) tires with 15x10 wheels and 8 bolt, 2.75" hubs. Wings (8) 12.5L, 12 ply tubeless tires with 15x10 wheels and 6 bolt 2" hubs.	50' (15.2)	18' 2" (5.5)	13' 11" (4)	24" (7.3)	33,300 lbs. (15105)	666 lbs. (302)

We are continually striving to improve our machines; therefore, these specifications are subject to change without notice.





1

## 1. DISC BLADE SCRAPER

Unlike some competitive disc companies, Sunflower mounts the scraper bar to the C-Flex hanger on each gang. As the C-Flex hanger moves up and down, the disc gang and scraper move together. This prevents the scraper from bottoming out on the spools or coming into contact with the gang.



2

## 2. TAPERED REAR GANGS

A long-time feature on Sunflower discs, our tapered rear gangs promote level, ridge-free discing in all conditions. The precisely engineered preset gang angle ensures that all soil thrown by the front gangs will be returned by the rear gangs. Unlike solid furrow-filler blades, the unique three-sided blade used on the end of each Sunflower rear gang prevents the formation of a continuous furrow and prevents water erosion on rolling ground.



3

## 3. GAUGE WHEELS

Front-mounted gauge wheels are more than a trademark on all flexible Sunflower discs. This heavy-duty feature, which incorporates 5-bolt hubs and 8.00 x 10 ply tires, also prevents the front gangs from gouging, buckling or cutting deeper than the other gangs, promoting a level, ridge or furrow-free field.



4

## 4. C-FLEX™ BEARING STANDARD

Standard equipment on most Sunflower disc models, C-Flex™ bearing standards absorb disc gang shock created by stumps, rocks and normal discing. Additional C-Flex benefits include the ability to clear residue better than conventional rigid standards; extended bearing, spool and disc blade life, and easy maintenance of the disc gang assembly. Simply remove one bolt and loosen a second bolt at each C-Flex™ location and the entire gang can be dropped. All C-Flex standards remain in place to ensure the gang is always reinstalled in the correct position.



5

## 5. DURABLE LIFT SYSTEMS

A maintenance-free lift system, which utilizes space-age UHMW plastic sleeves on lift pivot, eliminates the need for greasing on most Sunflower disc models.



6

## 6. HEAVY-DUTY GANGS

Rugged 22", 24" and 26" disc blades on large-diameter gang shafts provide a solid foundation to enhance residue coverage and improve soil penetration in challenging conditions.



7

## 7. REPHASING-LIFT SYSTEM

A rephasing-lift system, which features simple wheel adjustment and precision depth control, is standard equipment on all Sunflower disc models. This system not only eliminates all linkages, but significantly reduces the number of wear points. In addition, each lift cylinder is equipped with replaceable hardened wear bushings on both clevis and cylinder-mounted ends for infinite field life.



8

## 8. LIGHT KIT

ASAE-compliant safety light bracket mounts, which are permanently mounted to the frame, reduce the chance of light fixture loss or damage due to weed or brush entanglement.



9

## 9. MAINTENANCE-FREE HINGES

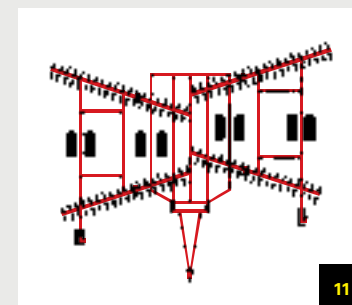
Heavy-duty wing hinges incorporate maintenance-free UHMW plastic sleeves that eliminate greasing and increase service life.



10

## 10. TRUNNION BEARING DESIGN

Sunflower's trunnion bearings provide positive alignment, which eliminates wear between the bearing and housing and ensures positive lubrication. As the C-Flex™ bearing standards move, gang bearings are constantly realigned. In contrast, the bearing in conventional bearing systems moves within the housing. This eventually leads to wear between the bearing and housing ... then bearing failure, because grease cannot get into the bearing. Sunflower's trunnion bearings also feature triple-lip seals that cannot be damaged by daily greasing and metal washers that protect the seals from being damaged by stalks or material wrapping around the gang shaft.



11

## 11. STAGGERED OVERLAPPING DISC GANGS

Every Sunflower disc features staggered overlapping disc gangs — one of the keys to level discing. As the overlapped front gangs cleanly cut through tough soil and residue, the staggered rear gangs throw the soil back toward the center in a criss-cross pattern. This arrangement eliminates the need for a chisel shank or bulk buster, typically required in the center of the unit, behind the front gangs of conventional tandems. More importantly, the Sunflower combination eliminates ridging in the center — another problem common with conventional tandem discs. Finally, Sunflower makes sure the tires are placed close to the hinge line on the center section and near the outside of each wing to ensure against gouging in rough or terraced ground. Some manufacturers save money by simply extending the gang bars on wings to make the next larger size. Unfortunately, this results in the wing wheels being located too far inboard to support the wings in rough or terraced ground.

## OPTIONAL FINISHING ATTACHMENTS



### HEAVY-DUTY COIL TINE HARROW

Designed to work in heavy crop residue, The Heavy-Duty Coil Tine Harrow features three rows of 1/2" x 22" coil tines with 12" spacing on each bar to produce a 4" overall tine spacing. Spring-loaded parallel mounting arms maintain the necessary down-pressure, while keeping the tine angle consistent. Each section features backup protection and wrench-free tine pitch adjustment.



### COIL-TINE HARROW

Our most popular finishing attachment, the Sunflower Coil-Tine Harrow features three rows of 3/8" coil tines on 2 1/2" centers spaced 15" between bars. Each tine is individually mounted for easy replacement so there's no need to disassemble a complete bar. Each section also features backup protection and can be adjusted for tine pitch, height, tilt and down pressure.



### THREE ROW SPIKE

Whether it's used for primary or finish discing, the Three-Row Spike drag adds a finishing touch to any discing operation. Each bar independently flexes for maximum conformance to irregular terrain. The combination of the three-row unit's weight with 11" spikes on 1 1/2" centers effectively completes any seedbed and incorporation process.



### REAR TOW HITCH

Two different Rear Tow Hitch options are available for most Sunflower disc models. The first (shown) features a slide hitch and ball joint for ease of hook-up in limited-space situations, while the second features a fixed hitch with ball joint.

# 1710/1730 SERIES OFFSET DISC HARROWS

*A New Level Of Strength And Weight*

Sunflower has always been known for building rugged, heavy disc harrows. But the new SF1700 Series Offset Disc Harrows take weight and strength to a new level. Featuring large-diameter, full-concavity blades and the highest weight per foot in the industry, the 1700 Series is designed to penetrate packed soils, as well as the thickly matted crop residue that comes with today's high-yielding, genetically modified crop varieties.

Available in cutting widths from 11' to 24' 11" — including two models built specifically for the construction industry — the 1700 Series is designed to size and incorporate even the toughest crop material in your quest to return nutrients to the soil and maximize crop potential.

Sunflower - The Ultimate Answer



- 1. HEAVY-DUTY FRAMES** - The SF1700 Series frames are constructed of high strength 4" x 8" x 3/8" steel tube to withstand the high stress of aggressive tillage. It is cross braced and gusseted for added strength and trouble-free service.
- 2. RIGID OR SPRING CUSHION GANGS** - with 5/16" thick plain or notched disc blades. Available in 28" or 30" diameters the blade spacings are 11" or 13" depending on the model. The gangs are supported by 1 15/16" shafts revolving on 214 re-lube gang ball bearings fitted with lubrication fittings. The hardened steel scrapers provide a continuous cleaning action
- 3. SPRING CUSHION GANGS** (*selected models*) - The entire gang assembly pivots upwards when an obstruction is encountered. The heavy coil springs compress allowing the gang assembly to pass over the obstruction then expand to return the gangs to their working position.
- 4. HIGH LOAD RANGE WHEELS AND TIRES** - (4) 12.5L x 15 GY-FI, Load Range F tires with 15" x 10" eight bolt wheels and 2.75" slip in spindles.

## 1710 DISC HARROW SPECS

MODEL NUMBER	DESCRIPTION	CUTTING WIDTH (m)	BLADE SIZES (mm)	NUMBER OF BLADES	TRANSPORT DIMENSIONS WIDTH X HEIGHT (m)	WEIGHT lbs. (kg)	WEIGHT PER BLADE lbs. (kg)
SF1710-10	H.D. Offset Disc Harrow Spring Cushion Gang	11' 0" (3.3)	28" & 30" (711 & 762)	12F 13R	12' 7" x 7' 0" (3.8 X 2.1)	11,029 (5003)	441 (200)
SF1710-12	H.D. Offset Disc Harrow Rigid Gang	12' 8" (3.9)	28" & 30" (711 & 762)	14F 15R	14' 6" x 7' 0" (4.4 X 2.1)	10,329 (4685)	356 (161)
SF1710-12	H.D. Offset Disc Harrow Spring Cushion Gang	12' 8" (3.9)	28" & 30" (711 & 762)	14F 15R	14' 4" X 7' 0" (4.4 X 2.1)	12,550 (5693)	433 (196)
SF1710-14	H.D. Offset Disc Harrow Rigid Gang	14' 6" (4.4)	28" & 30" (711 & 762)	16F 17R	16' 3" x 7' 0" (4.9 x 2.1)	10,976 (5059)	333 (151)
SF1710-14	H.D. Offset Disc Harrow Spring Cushion Gang	14' 6" (4.4)	28" & 30" (711 & 762)	16F 17R	15' 3" x 7' 0" (4.6 x 2.1)	13,830 (5762)	419 (190)
SF1710-16	H.D. Offset Disc Harrow Rigid Gang	16' 2 (4.9)	28" & 30" (711 & 762)	18F 19R	18' 0" X 7' 0" (5.5 X 2.1)	11,526 (5228)	312 (142)
SF1710-16	H.D. Offset Disc Harrow Spring Cushion Gang	16' 2" (4.4)	28" & 30" (711 & 762)	18F 19R	17' 10" x 7' 0" (5.4 x 2.1)	14,270 (6473)	398 (181)
SF1710-18	H.D. Offset Disc Harrow Rigid Gang	17' 11" (5.5)	28" & 30" (711 & 762)	20F 21R	19' 8" X 7' 0" (6 X 2.1)	12,271 (5566)	299 (136)
SF1710-18	H.D. Offset Disc Harrow Spring Cushion Gang	17' 11" (5.5)	28" & 30" (711 & 762)	20F 21R	19' 7" X 7' 0" (6 X 2.1)	15,248 (6916)	372 (169)

## 1730 DISC HARROW SPECS

MODEL NUMBER	DESCRIPTION	CUTTING WIDTH (m)	BLADE SIZES (mm)	NUMBER OF BLADES	TRANSPORT DIMENSIONS WIDTH X HEIGHT (m)	WEIGHT lbs. (kg)	WEIGHT PER BLADE lbs. (kg)
SF1730-22	H.D. Offset Disc Harrow Rigid Gang	21' 5" (6.5)	28" & 30" (711 & 762)	24F 25R	9' 5" X 12' 10" (2.9 X 3.9)	20,960 (9507)	428 (194)
SF1730-24	H.D. Offset Disc Harrow Rigid Gang	23' 2" (7.1)	28" & 30" (711 & 762)	26F 27R	9' 6" X 13' 6" (2.9 X 5)	22,060 (10,006)	416 (189)
SF1730-26	H.D. Offset Disc Harrow Rigid Gang	24' 11" (8)	28" & 30" (711 & 762)	28F 29R	9' 6" X 14' 7" (4.3 X 4.4)	22,860 (10,369)	401 (182)

We are continually striving to improve our machines; therefore, these specifications are subject to change without notice.

# 1810/1830 SERIES DISC HARROWS

*The Obvious Solution For Heavy Residue*

Thick, tough crop residue isn't a concern with the new Sunflower 1800 Series Disc Harrows. Designed for professional farmers who need a heavy tandem disc harrow for residue management, the 1800 Series features large diameter blades and sufficient weight to cut through hard-packed soils and thickly matted material.

Available in cutting widths up to 39', 1800 Series models feature 5/16 X 28" smooth or notched blades and boast up to 635 pounds per blade (on 1830-30 model) for aggressive tillage in even the toughest conditions. Of course, it goes without saying that the 1800 Series is built to Sunflower's rigorous standards, which is clearly evident when you look at the rugged 4 X 8" tubular frame. When strength and weight are important, the 1800 is the obvious answer.

**Sunflower - The Ultimate Answer**



- 1. HEAVY-DUTY FRAMES** - The SF1800 Series frames are constructed of high strength 4" x 8" x 3/8" steel tube to withstand the high stress of aggressive tillage. It is cross braced and gusseted for added strength and troublefree service.
- 2. RIGID OR SPRING CUSHION GANGS** - with 5/16" thick plain or notched disc blades. Available in 28" or 30" diameters the blade spacings are 11" or 13" depending on the model selected. The gangs are supported by 1 15/16" shafts revolving on 214 re-lube gang ball bearings fitted with lubrication fittings. The hardened steel scrapers provide a continuous cleaning action.

## 1810 OFFSET DISC HARROW SPECS

MODEL NUMBER	H.D. TANDEM DISC HARROW DESCRIPTION	CUTTING WIDTH (m)	BLADE SIZES (mm)	NUMBER OF BLADES	TRANSPORT DIMENSIONS WIDTH X HEIGHT (m)	EST. WEIGHT (kg)	WEIGHT PER BLADE (kg)
SF1810-14	Rigid Gang	14' 4" (4.4)	30" (762)	12F 14R	15' 11" x 7' 0" (4.8 x 2.1)	11,152 lbs. (5059)	429 lbs. (195)
SF1810-14	Spring Cushion Gang	14' 2" (4.3)	28" & 30" (711 & 762)	14F 16R	15' 10" x 7' 0" (4.8 x 2.1)	12,702 lbs. (5762)	523 lbs. (192)
SF1810-16	Rigid Gang	16' 4" (5)	30" (762)	14F 16R	18' 5" x 7' 0" (5.6 x 2.1)	11,695 lbs. (5304)	390 lbs. (177)
SF1810-16	Spring Cushion Gang	15' 10" (4.8)	28" & 30" (711 & 762)	16F 18R	17' 10" x 7' 0" (5.4 x 2.1)	13,580 lbs. (6160)	399 lbs. (181)
SF1810-18	Rigid Gang	17' 7" (5.4)	28" & 30" (711 & 762)	18F 20R	19' 10" x 7' 0" (6 x 2.1)	12,661 lbs. (5743)	333 lbs. (151)

We are continually striving to improve our machines; therefore, these specifications are subject to change without notice.

## 1830 OFFSET DISC HARROW SPECS

MODEL NUMBER	H.D. TANDEM DISC HARROW DESCRIPTION	CUTTING WIDTH (m)	BLADE SIZES (mm)	NUMBER OF BLADES	TRANSPORT DIMENSIONS WIDTH X HEIGHT (m)	EST. WEIGHT (kg)	WEIGHT PER BLADE (kg)
SF1830-22	Spring Cushion Gang	22' 10" (5.6)	28" & 30" (711 & 762)	24F 26R	13' 11" x 12' 10" (4.2 x 3.9)	26,934 lbs. (12217)	539 lbs. (244)
SF1830-22	Spring Cushion Gang	22' 6" (6.9)	30" (762)	20F 22R	13' 11" x 12' 10" (4.2 x 3.9)	26,669 lbs. (12097)	635 lbs. (288)
SF1830-24	Rigid Gang	24' 7" (7.5)	28" & 30" (711 & 762)	26F 28R	13' 6" x 13' 6" (4.1 x 4.1)	23,771 lbs. (10783)	440 lbs. (200)
SF1830-24	Spring Cushion Gang	24' 7" (7.5)	28" & 30" (711 & 762)	26F 28R	13' 11" x 13' 6" (4.2 x 4.1)	28,228 lbs. (12804)	523 lbs. (237)
SF1830-26	Rigid Gang	26' 4" (8)	28" & 30" (711 & 762)	28F 30R	13' 6" x 14' 2" (4.1 x 4.3)	24,209 lbs. (10981)	417 lbs. (189)
SF1830-26	Spring Cushion Gang	26' 4" (8)	28" & 30" (711 & 762)	28F 30R	14' 10" x 14' 2" (4.5 x 4.3)	28,823 lbs. (13074)	497 lbs. (225)
SF1830-26	Spring Cushion Gang	26' 8" (8.1)	30" (762)	24F 26R	14' 10" x 14' 2" (4.5 x 4.3)	28,666 lbs. (13003)	573 lbs. (260)
SF1830-30	Rigid Gang	29' 9" (9.1)	28" & 30" (711 & 762)	32F 34R	14' 8" x 15' 10" (4.7 x 4.8)	26,546 lbs. (12041)	402 lbs. (182)
SF1830-30	Spring Cushion Gang	29' 9" (9.1)	28" & 30" (711 & 762)	32F 34R	17' 2" x 15' 6" (5.2 x 4.7)	31,559 lbs. (14315)	478 lbs. (217)
SF1830-30	Spring Cushion Gang	30' 9" (9.4)	30" (762)	28F 30R	17' 2" x 15' 10" (5.2 x 4.8)	31,235 lbs. (14168)	539 lbs. (244)
SF1830-34	Spring Cushion Gang	33' 3" (10.1)	28" & 30" (711 & 762)	36F 38R	15' 10" x 15' 9" (4.8 x 4.8)	37,014 lbs. (16790)	500 lbs. (227)
SF1830-34	Spring Cushion Gang	34' 11" (10.6)	30" (762)	32F 34R	16' 0" x 15' 9" (4.9 x 4.8)	36,777 lbs. (16682)	557 lbs. (253)
SF1830-38	Spring Cushion Gang	38' 6" (11.7)	28" & 30" (711 & 762)	42F 44R	15' 10" x 17' 9" (4.8 x 5.4)	38,425 lbs. (17430)	469 lbs. (213)
SF1830-38	Spring Cushion Gang	39' 0" (11.9)	30" (762)	36F 38R	16' 0" x 17' 9" (4.9 x 5.4)	37,568 lbs. (17041)	508 lbs. (230)

## “Sunflower disc harrow performance earns new business.”

Iowa farmer Rich Deist isn't the first to boast about the performance of a Sunflower 1000 Series disc harrow. However, Deist also insists that his Sunflower 1435 has earned him more business. In addition to farming approximately 850 acres of corn and soybeans of his own, Deist has a trucking business, as well as a custom-farming venture that provides planting, tillage and harvesting on another 600 to 900 acres.

“I just bought the Sunflower disc last year,” he relates. “But after some of my customers saw how good of job it did, I picked up another 250 acres of discing after I thought I was finished. On the other hand, the reason I bought the Sunflower unit in the first place was because a neighbor who farms around 4,000 to 5,000 acres had one. I saw what kind of job it did on his farm and thought, ‘Oh yeah, I’ve got to have one of those.’”

Deist says all he does to prepare for spring planting on his own farm is

disc corn stubble in the fall with the 1435, follow with anhydrous ammonia and seed the next crop in the spring. Meanwhile, fields that were previously yielded soybeans are planted no-till.

“I haven't seen anything on the market that will do the job that the Sunflower disc does,” he says. “In fact, before I bought a Sunflower, I rented a disc built by one of the major tractor brands; and it didn't do half the job this one does.”

“When you have a light-weight disc, it just knocks the stalks over,” he insists. “With the technology we have in corn hybrids right now, you have to bury those stalks to get them to rot. That's why I've gone with a tillage program that calls for discing corn fields before winter.”

Compounding the problem is the fact that Deist plants up to 36,000 seeds per acres on his corn acres.

“The more corn you put out there, the more you're going to bring in at

harvest,” he believes, noting that corn typically yields in the range of 230 to 240 bushels per acre. Of course, that means a lot of leaves and stalks to deal with after harvest.

“The Sunflower disc not only sizes the stalks, but it literally buries them,” he continues. “Everybody thinks you have to use a field cultivator in the spring after you've disced in the fall; but I don't. I end up with such a mellow seedbed I don't see any reason to do anything else.”

Naturally, that just leaves Deist with more time to do custom farming for other area farmers ... or to truck a load of rock, gravel or grain with his fleet of tractor-trailers.

“I tell people I'm a jack of all trades and a master of none,” he jokes.

However, some of Deist's customers would probably disagree. If they weren't happy with his work, they wouldn't be calling to add even more.

**GROWER**  
Richard Deist

**LOCATION**  
Audubon, Iowa

**SITUATION**  
Residue management in high-population corn

**SOIL CONDITION**  
Mellow, one-pass seedbed preparation

**TILLAGE TOOL USED**  
Sunflower 1435 Disc Harrow



# 1000 SERIES DISC HARROWS

1212 | 1234 | 1435 | 1444 | 1544 | 1550 | 1710 | 1730 | 1810 | 1830

**SUNFLOWER. THE ULTIMATE ANSWER.**

**SUNFLOWER**



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