CONSERVATION TILLAGE

3000 | 3300 | 3600 | 6630 | 7600

SUNFLOWER. THE ULTIMATE ANSWER.
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 line 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 coulter 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.
The 3000 Series Fallow-King is exactly what the name implies — the sovereign choice for fallow tillage in the wide range of soil conditions found on the Great Plains. Whether it’s used for primary or secondary tillage, you can count on maximum weed kill as two rows of 26” sweeps slide below the soil surface, leaving the majority of the existing residue exposed. Sunflower’s computer-aided design process also features optimum shank placement on 20” center to provide a full six inches of overlap. In the meantime, up to seven frame sections flex every seven feet to hug the terrain on flat or rolling ground … even over terraces. For more aggressive action that rips out weeds and leaves them exposed, the exclusive Sunflower treader provides unparalleled soil aeration … even in heavy surface residue.

Sunflower - The Ultimate Answer

Its Well-Earned Name Says it All

Sunflower’s exclusive use of UHMW Technology was initiated from need.

• The need for more productive field time and less greasing maintenance time.
• The need for fewer replacement parts resulting in less downtime and machine expense.
• The need for consistent field performance through the elimination of machine wear.
• The need for higher valued farm equipment by an ever-refining industry.

What is UHMW Polymer?
“UHMW-PE or simply UHMW stands for Ultra High Molecular Weight Polyethylene. This raw material is well known by the engineering field as one of the toughest substances known to man. UHMW has an abrasion resistance 10 times that of carbon steel and an amazing impact strength, in fact UHMW is used as a key ingredient in bullet-proof vests and body armor.”

Sunflower’s exclusive use of UHMW Technology was initiated from need.

1. STANDARD WALKING TANDEM - Allow the machine to follow the ground contour precisely, maintaining a more consistent shank depth. Tandem beam pivots on regreasable tapered roller bearings for smooth, long-lasting service. Shackle is equipped with bolt hub and heavy-duty 2” slip-in spindles feature triple-tip seals.

2. ONE-PIECE WELDED HITCH - Attached to the middle of the right and left center frames via 6 & 6 section machines by 8 1/2” bolts and flex links for full flexibility without sacrificing strength. Hitch attaching points are wear protected by thrust plates to ensure long-life.

3. BATCHET JACK - Precisely levels the frame from front-to-rear on the Fallow-King. This assures level tillage in a variety of field conditions.

4. OVERLAPPING SWEEPS - Fallow-King features 26” sweeps on 20” centers, providing a full 6” overlap and maximum weed kill.

5. SUNFLOWER GAUGE WHEELS - Eliminate gouging and provide precision tillage on flat or rolling terrain and are standard equipment on 4-section through 7-section machines.

6. SCREW-TYPE ADJUSTMENT - Located at the front of the frame for operator convenience. A single setting controls the operating depth of the entire machine.

7. ROCKSHAFTS - Sunflower mounts the rockshaft on top of the frame for superior trash clearance. Fallow-King also features a lift cylinder at EACH wheel.

3000 SERIES FALLOW-KING SPECS

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>FALLOW-BREADTH</th>
<th>NUMBER OF SHANKS</th>
<th>TRANSPORT HEIGHT</th>
<th>TRANSPORT WIDTH</th>
<th>EST. MNT. BASE MFG**</th>
<th>TIRE NUMBER &amp; SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>SF3030-21</td>
<td>21’ (6.4)</td>
<td>13 Three</td>
<td>7’ 10&quot;-8&quot; (3.2)</td>
<td>14’-5&quot; (4.4)</td>
<td>5,944 lbs. (2696)</td>
<td>1-1 (8) 9.5L x 15, 8ply</td>
</tr>
<tr>
<td>SF3030-25</td>
<td>25’ (7.6)</td>
<td>15 Three</td>
<td>7’ 12&quot;-4&quot; (3.8)</td>
<td>14’-5&quot; (4.4)</td>
<td>6,680 lbs. (2974)</td>
<td>1-1 (8) 9.5L x 15, 8ply</td>
</tr>
<tr>
<td>SF3040-28</td>
<td>28’ (8.5)</td>
<td>17 Four</td>
<td>7’ 10&quot;-8&quot; (3.2)</td>
<td>21’-2&quot; (6.4)</td>
<td>8,044 lbs. (3642)</td>
<td>2-1 (10) 9.5L x 15, 8ply</td>
</tr>
<tr>
<td>SF3040-32</td>
<td>32’ (9.7)</td>
<td>19 Four</td>
<td>7’ 12&quot;-4&quot; (3.8)</td>
<td>21’-2&quot; (6.4)</td>
<td>8,27 4 lbs. (3752)</td>
<td>2-1 (10) 9.5L x 15, 8ply</td>
</tr>
<tr>
<td>SF3050-35</td>
<td>35’ (10.7)</td>
<td>21 Five</td>
<td>7’ 12&quot;-8&quot; (3.9)</td>
<td>21’-3&quot; (6.5)</td>
<td>9,759 lbs. (4427)</td>
<td>3-2 (12) 9.5L x 15, 8ply</td>
</tr>
<tr>
<td>SF3060-42</td>
<td>42’ (12.8)</td>
<td>25 Six</td>
<td>7’ 12&quot;-8&quot; (4)</td>
<td>22’-6&quot; (6.9)</td>
<td>11,87 4 lbs. (5386)</td>
<td>2-2 (16) 9.5L x 15, 8ply</td>
</tr>
<tr>
<td>SF3070-49</td>
<td>49’ (14.9)</td>
<td>29 Seven</td>
<td>7’ 15&quot;-6&quot; (4.7)</td>
<td>24’ (7.3)</td>
<td>13,650 lbs. (6192)</td>
<td>3-2 (12) 9.5L x 15, 8ply</td>
</tr>
</tbody>
</table>

*Machine weights do not include machine attachments. **Based on standard practice to improve our machines. Changes in specifications are subject to change without notice.

Learn more on the WEB www.sunflowermfg.com
It’s little wonder Sunflower is a world leader in blade plow design and manufacturing. It was Sunflower that built the industry’s first three-section, flexible stubble mulch blade plow back in 1961. Today, the Sunflower 3300 Blade Plow is still designed with the operator in mind. In 50 years time, though, Sunflower blade plows have not only grown in size, but become much more maintenance-free. As an example, we’ve eliminated all metal-to-metal wear points by incorporating UHMW polymer technology in high-wear areas, including transports, coulters and hinge pivot bushings. The 3300 also incorporates easily adjustable swivel linkages between the rockshafts at each frame for easy and fast adjustments and leveling. Equally important, we redesigned the frame to include a third hinge on each wing frame for greater strength and longer life. One look at the 3300 and you’ll agree that Sunflower is still the leader in blade plows.

Sunflower - The Ultimate Answer

1. ADJUSTABLE SWIVEL LINKAGES - Frame leveling is critical to blade plow performance. Sunflower incorporated easily adjustable swivel linkages between the rockshafts at each frame in the 3300. Simply remove a hold strap and start turning the link to a perfect level.

2. BOX-BRACED STANDARDS - The 1 1/4" thick box-braced standards add strength and stability to the entire standard assembly. Sunflower incorporated a slim-line design while still increasing the thickness of the upright standards by 10%. The strong, sculptured upper box-brace narrows to a streamlined shape to ensure mulch disturbance is kept to a minimum.

3. INDIVIDUAL WHEEL ADJUSTMENTS - Standard in necessary locations to allow the 3300 Blade Plow wheels to be adjusted individually for impressions made by the tractor tires without changing the swivel links.

4. LARGE 22" ROLLING COULTERS - Five-bolt hubs allow more room for trash flow and provide longer intervals between replacement changes. The five-bolt hubs are more resistant to breakage when farming deep and/or terraced ground.

Sunflower - The Ultimate Answer

Fifty Years Of Customer Satisfaction

3300 SERIES BLADE PLOW

To provide extra strength and longer life to our frame connections, Sunflower has added a third hinge in the wing frames. This allows the all new 3300 Blade Plow to perform longer and deeper without the adverse side effects of worn and pulled out hinges. This feature was requested by the American farmer and now is a reality in the new 3300.

### Standard Equipment

- 4" x 4" x 1/4" tubular frame
- 5 1/2" O.D. x 3/8" wall rockshaft
- 3" x 6" x 1/4" box-braced arms
- Regular swaged standards (75; 1 1/4" uprights)
- 3" Pivot, 1 1/4" of #7 blades
- 22" Pivot coulers
- Tongue jack
- Single or double lip hitch clevis
- UHMW - Standard on hinge bushings, coulters and rockshaft pivot bushings
- 12 ply, 12.5L x 15" radius tubes
- 16" x 17" eight bolt wheels and hubs
- 15" x 10" six bolt wheels and hubs

### Optional Equipment

- Double lip hitch, 1 9/16" pin hole (5, 6 & 7 section plows)
- Rear tow hitch with ball joint (5, 7 & 9 section plows)
- Rear tow hitch with hitch slide and ball joint (5, 7 & 9 section plows)
- Rear back stand (included with rolling treater) (7 section)
- Rear back stand (included with rolling treater) (5 & 3 section)

### 3300 SERIES BLADE PLOW SPECS

<table>
<thead>
<tr>
<th></th>
<th>3300-72</th>
<th>3300-92</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. Blades</td>
<td>7</td>
<td>9</td>
</tr>
<tr>
<td>Size (m)</td>
<td>6' (1.8)</td>
<td>6' (1.8)</td>
</tr>
<tr>
<td>Tillage Width (in)</td>
<td>40 (102)</td>
<td>40 (102)</td>
</tr>
<tr>
<td>Folded Width (in)</td>
<td>24 (61)</td>
<td>26 (66.5)</td>
</tr>
<tr>
<td>Folded Height (in)</td>
<td>17.5 (44.5)</td>
<td>17.5 (44.5)</td>
</tr>
<tr>
<td>Approx. Weight (lbs)</td>
<td>12,718 (5769)</td>
<td>15,280 (6931)</td>
</tr>
</tbody>
</table>

Note: Above specifications may vary slightly based on tires, hydraulic system, or other possible variances. We are continually striving to improve our machines; therefore, these specifications are subject to change without notice.

Sunflower - The Ultimate Answer

Learn more on the WEB www.sunflowermfg.com
Tillage is still the low-cost option for killing weeds in fallow ground or prior to planting … particularly when you can cover up to 55 feet in each pass, while leaving up to 95 percent of the crop residue on the surface. The use of a Sunflower 3600 Blade Plow as a fallow maintenance tool is not only cost effective, compared to chemical fallow or burndown, but it’s often easier to schedule, too, since tillage isn’t dependent on as many weather variables. Plus, tillage offers additional benefits, like fracturing surface compaction, improving water/air infiltration and creating a better environment for seed germination and root growth.

Available in five-, six-, seven-, nine- and 11-section models, the 3600 flexes to follow field contours, yet it can be easily leveled via swivel linkages between rockshafts, eliminating the need to remove bolts and linkages. Sunflower - The Ultimate Answer

**Cut Costs And Enhance Yields**

1. **OFFSET LEVER SYSTEM** - The 5-point linkage between frame sections has been replaced with a simple offset lever system that has reduced wear points by 60%. This new system requires less maintenance, less parts replacement and helps produce consistent performance from the blade plow.

2. **UHMW HINGE BUSHING** - UHMW hinge flanges totally eliminates daily greasing, protects against “tear out” of hinges and stops risk of hinge “freeze-up.” The UHMW flange also eliminates metal-to-metal wear between frame connections, cushions high stress hinge areas and quiets fold operation.

3. **ADJUSTABLE SWIVEL LINKAGES** - Swivel linkages between rockshafts simplify frame lowering by eliminating the need to remove bolts and linkages. Adjustable linkages allow an operator to fine-tune the plow to maximize results and lower the drafting requirement.

4. **OVERHEAD Hitch** - Unique overhead hitch and spanner beams produce positive down pressure to the frames. This design also moves the pulling point from the center of the plow to the outer edges of the right and left center frames to help counter “building” and the “roll-over” effect common to tillage tools.

5. **UHMW CLAD ROCKSHAFTS** - Eliminates greasing and metal-to-metal wear. No more re-adjusting of frames, no more greasing and less chance of down-time from parts failure.

6. **HEAVY DUTY BLADE SUPPORT STANDARDS** - Blade support standards have been increased 11% in thickness to prolong wear and provide additional strength to guard against knowledge when encountering foreign objects during field operation. These supports are still of a slim design which promotes lower drafting.

7. **ENHANCED FRAME** - A third hinge has been added to 9 and 11 section models to enhance frame life by distributing bearing load over a 50% larger area. This addition decreases the amount of “roll-over,” associated with ground engaging farm tools. The third hinge is also protected with UHMW polymer.

8. **UHMW TECHNOLOGY** - Has also been applied to the coulter pivot area. No more greasing, no more metal-to-metal wear, just less cost and less mess. UHMW really is an operator’s friend.

### 3600 SERIES BLADE PLOW SPECS

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Width of Cut (in.)</th>
<th>Number of Blades</th>
<th>Number of Tires</th>
<th>Transport Width (ft.)</th>
<th>Est. Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3662-30</td>
<td>30’ 6” (9.3)</td>
<td>6</td>
<td>7 - 11L, 12 ply</td>
<td>15’ 6” (4.7)</td>
<td>7767 lbs. (3532)</td>
</tr>
<tr>
<td>3672-35</td>
<td>35’ 6” (10.8)</td>
<td>7</td>
<td>8 - 11L, 12 ply, 15’ 6”</td>
<td>20’ 6” (6.2)</td>
<td>8742 lbs. (3965)</td>
</tr>
<tr>
<td>3692-45</td>
<td>45’ 6” (13.8)</td>
<td>9</td>
<td>6 - 11L, 12 ply, 15’ 6”</td>
<td>22’ 9” (6.9)</td>
<td>13733 lbs. (6229)</td>
</tr>
<tr>
<td>3612-55</td>
<td>55’ 6” (16.8)</td>
<td>11</td>
<td>8 - 11L, 12 ply, 15’ 6”</td>
<td>25’ 3” (7.7)</td>
<td>17803 lbs. (8075)</td>
</tr>
</tbody>
</table>

Note: Above specifications may vary slightly based on tires, hydraulic system, or other possible variances. We are continually striving to improve our machines, therefore, these specifications are subject to change without notice.

Learn more on the WEB www.sunflowermfg.com
The Sunflower 6630 Series Vertical Tillage system certainly isn’t the only vertical tillage machine on the market. It is, however, the only one with its unique features. And it is the only one with patent-pending Saber blades. The blades’ unique fluted-wave pattern design easily cuts through tough residue and efficiently opens cold, wet soils to the warming action of the sun, allowing producers to plant up to 10 days earlier in the spring. The front and rear gangs on the 6630 are also mounted at an 18-degree angle, allowing the 22-inch blades with 25 flutes and a 1 ½-inch concavity, to mix residues with just the right amount of soil. In effect, the ratio of soil to residue can be completely controlled by the operating depth of the tool. An operating depth of one to two inches sizes residue and mixes it with just enough soil to anchor the material and protect it against erosion. To lift more soil and enhance the decomposition, simply increase the operating depth to 3 or 3 ½ inches.

Sunflower - The Ultimate Answer

1. 21’ to 32’ Working Widths
2. Conditioning Reels - Optional 12 ¼” six blade spiral reels provide the field finish, crushing clods and firming the seedbed. The reels have adjustable spring down-pressure and feature triple-sealed greaseable bearings.
3. Gauge Wheels - Control the leading disc gangs to ensure uniform depth. Wheel pivots are service-free UHMW material and are mounted with parallel linkages to maintain correct wheel alignment.
4. Sunflower Saber Blades - The innovative stay-sharp saw-tooth profile of the Sunflower Saber Blade cuts through the toughest crop residue and penetrates hard soils. The fluted profile of the Sunflower Saber Blade creates a soil mixing action not possible with any other blade. The crop residue is sized, mixed and anchored for faster soil warm-up and resistance to wind and water erosion.

### 6630 SERIES VERTICAL TILLAGE TOOLS SPECS

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Cutting Width (m)</th>
<th>Est. Weight (kg)</th>
<th>Transport Width (m)</th>
<th>Transport Height (m)</th>
<th>Frame Size</th>
<th>Blade Spacing (mm)</th>
<th>Gauge Angles</th>
<th>QTY Blades</th>
</tr>
</thead>
<tbody>
<tr>
<td>SF6630-21</td>
<td>6.6</td>
<td>5530</td>
<td>4.7</td>
<td>3.1</td>
<td>5 1/2 - 10 - 5 1/2</td>
<td>559</td>
<td>F &amp; R 18˚</td>
<td>70</td>
</tr>
<tr>
<td>SF6630-24</td>
<td>7.5</td>
<td>6350</td>
<td>4.7</td>
<td>3.5</td>
<td>7 - 10 - 7</td>
<td>559</td>
<td>F &amp; R 18˚</td>
<td>78</td>
</tr>
<tr>
<td>SF6630-27</td>
<td>8.3</td>
<td>6868</td>
<td>4.7</td>
<td>3.8</td>
<td>8 1/2 - 10 - 8 1/2</td>
<td>559</td>
<td>F &amp; R 18˚</td>
<td>86</td>
</tr>
<tr>
<td>SF6630-29</td>
<td>9.1</td>
<td>7869</td>
<td>4.7</td>
<td>4.2</td>
<td>9 1/2 - 10 - 9 1/2</td>
<td>559</td>
<td>F &amp; R 18˚</td>
<td>96</td>
</tr>
<tr>
<td>SF6630-32</td>
<td>10</td>
<td>8609</td>
<td>4.7</td>
<td>4.7</td>
<td>11 - 10 - 11</td>
<td>559</td>
<td>F &amp; R 18˚</td>
<td>106</td>
</tr>
</tbody>
</table>
Up until now, the biggest problem with competitive vertical tillage systems hasn’t necessarily been the design, but rather the tillage blades. Customers’ greatest complaint has been that the blades wear down and become dull too quickly. That’s why we can claim that Sunflower’s patented Saber blade makes all the difference in the world on the Sunflower 6630 Vertical Tillage System. Granted, the angled gangs contribute to the superior performance the 6630 exhibits in tough residue and hard-packed soil. However, nobody in the industry has vertical tillage blade that lasts season after season like the Sunflower Saber blade. Developed using a proprietary boron steel formula, which yields the hardest, yet most ductile blades available, Saber blades feature a 22” diameter and shallow concavity specifically designed for vertical tillage applications. However, its most unique feature is the patented 25-flute wave pattern that allows the blade to maintain its cutting ability as the blade wears down. As blade wear occurs, the “V25” groove will “shift”, thus allowing the hill to become the valley and the valley to become the hill. This “shift” enables the blade to maintain its sharp edge and still capture and size residue long after the competition’s vertical tillage coulters have become too dull to do the job.

Sunflower - The Ultimate Answer

THE CUTTING EDGE IN PERFORMANCE

Nothing matches Sunflower’s Unique Saber Blade

1. THICK-GAUGE STEEL - Saber blades are constructed with a gauge material that gives the blade the versatility to cut through heavy residue and penetrate tough soil conditions, while still maintaining its integrity.
2. SAW-TOOTH WAVE PATTERN - The 25-tooth pattern grips the soil and ensures the gang RPM doesn’t decrease or stop in loose or wet soil conditions. This prevents soil “bulldozing” in front of the gang.
3. SPECIAL TRANSITION AREA - A transition area between the end of the flute and the center flat area encourages soil to move past the flutes instead of building up between them, which would decrease lateral soil movement and fracturing.
4. HIGH-SPEED DESIGN - The unique design of the Saber blade, combined with its self-sharpening capabilities, allows the 6630 to be operated at the higher speeds demanded by vertical tillage.

Nothing matches Sunflower’s Unique Saber Blade.
They say that “good things come to those who wait”; and that is certainly the case with the Sunflower 7600 Strip-Till machine. Sunflower wasn’t the first on the market with a strip-till unit; but we did take the time to see what could be improved on existing models. Then we incorporated those changes — along with features that aren’t even available on many competitive models — into the 7600. Unique features include scrapers on the coulter blade and depth band, tool bar gauge wheels, concave-bar berm reels, a tow hitch and simpler adjustment throughout, allowing the 7600 to be easily customized for variable field conditions and personal preferences.

Featuring 20’ and 30’ heavy-duty tool bars that accommodate eight- and 12-row units on 30” spacings, the 7610 rigid-frame model and 7630 three-section unit are ideal for fall tillage and fertilizer placement, allowing the soil to mellow during the winter. Used ahead of the planter in the spring, the unit also provides a ready-made seedbed that can often be planted earlier than no-till fields.

### 7600 STRIP-TILL TOOLS FEATURES:
- **1” X 1” toolbar**
- **Heavy-duty parallel linkages**
- **10” range of vertical travel**
- **Adjustable dual down-pressure springs**
- **Shearbolt protected shank assembly**

### 7600 STRIP-TILL TOOLS SPECS

<table>
<thead>
<tr>
<th>Model</th>
<th>Number of Rows</th>
<th>Row Spacing (in.)</th>
<th>Toolbar Dimensions (in.)</th>
<th>Under Frame Clearance (in.)</th>
<th>Tool Weight (lbs)</th>
<th>Transport Width (ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7610-20</td>
<td>8</td>
<td>30” (762)</td>
<td>7” x 7” x 1/4” (778 x 778 x 6.3) with (2) 9.5L 8 ply tubeless tires with 15” x 6” (381 x 152) wheels and 6 bolt hubs</td>
<td>28” (711)</td>
<td>7,250 lbs (3,289)</td>
<td>20.67 (6.3)</td>
</tr>
<tr>
<td>7630-30-NT</td>
<td>12</td>
<td>30” (762)</td>
<td>7” x 7” x 1/4” (778 x 778 x 6.3) center frame with (2) 9.5L 8 ply tubeless tires with 15” x 6” (381 x 152) wheels and 6 bolt hubs</td>
<td>28” (711)</td>
<td>11,700 lbs (5,307)</td>
<td>15.75 (4.8)</td>
</tr>
<tr>
<td>7630-30</td>
<td>12</td>
<td>30” (762)</td>
<td>7” x 7” x 1/4” (778 x 778 x 6.3) center frame with (2) 9.5L 8 ply tubeless tires with 15” x 6” (381 x 152) wheels and 6 bolt hubs</td>
<td>28” (711)</td>
<td>11,700 lbs (5,307)</td>
<td>20.42 (6.2)</td>
</tr>
</tbody>
</table>

Note: Above specifications may vary slightly based on tires, hydraulic system, or other possible variances. We are continually striving to improve our machines; therefore, these specifications are subject to change without notice.
Sunflower offers you a choice in treader wheels the others can’t

Sunflower offers both Conservation and Standard Treader Wheels to match your farming operation. Hard-surfaced teeth are available on the Conservation Treader Wheel.

Sunflower’s rolling treader is built from a durable one-piece pipe and only utilizes individual wheels outside of the bearing hangers. Tooth replacement can be made one at a time instead of replacing the whole individual wheel. Sunflower’s solid treader gang design stays tight and does not allow dust and moisture to contaminate and rust the interior gang shaft.

Sunflower - The Ultimate Answer

1. AGGRESSIVE DIGGING ACTION - This unique wheel features high-carbon half-oval teeth (8 per wheel) curved and twisted for superior soil-residue action, working and leveling the soil behind various tillage tools. The tooth’s unique digging action inverts weeds, exposing their roots on the surface. A mixture of small clods and residue are deposited on the surface while finer soil particles settle below, safeguarding your fields from wind and water erosion. The high-carbon teeth are specially stress-relieved for ductility and longer field life.

2. RESIDUE-CONSERVING ACTION - The Conservation Treader Wheel features a flat-tooth design (7 per wheel) that is curved only and cut at a 45˚ angle on the soil engaging end. This less aggressive tooth destroys minimal amounts of residue, but maintains a good weed kill during tillage operations. Ideal for use in arid conditions where residue compliance is difficult to achieve. The wheel’s larger diameter, featuring less teeth with no special twist are the key ingredients in this unit’s ability to meet conservation standards. Constructed of high-carbon steel, each tooth is specially stress-relieved for longer field life.

3. OVERLAPPING SECTIONS - Overlapping sections provide thorough tillage action with no skips or missed ground. You’ll get the full benefit of the harrow’s aggressive weed kill across the entire width of your chisel or sweep plow.

4. SPRING-LOADED - Adjustable spring-loaded mounting brackets relieve strain on the plow frame during folding and transport.

5. ANGLE ADJUSTMENT - With basic tools and a few moments of time, you can adjust the treader section from 15 degrees to 20 degrees. Conservation treaders should be run at 20 degrees only.

6. RUGGED SUPPORT - Each gang is equipped with a 1 1/8” square shaft and triple sealed greaseable bearings. The formed bracket protects the zerk from rocks, weed wrap and premature wear.
To some, it might appear that John and Eric Eilert have it backwards when it comes to the tillage program on their 6,000-acre family farm in north central Kansas. Even Eric admits that their practice of no-tilling row crops, while using conventional tillage ahead of wheat, is a bit unusual.

“Prior to planting wheat, which accounts for about half of our acres, we'll usually disc twice with a Sunflower disc harrow and then put anhydrous ammonia using a 40-foot Sunflower Fallow-King that we've equipped with knives in place of the shovels,” Eric explains. “Thanks to its six-section frame, standard gauge wheels and exceptional flexibility, it hugs the ground really well, which means the anhydrous is sealed in, even on the contours. You can walk right behind that rig and you won't smell any ammonia.

“Even without the sweeps, I'd say we get up to 90 percent of any weeds or volunteer wheat left in the field,” he adds, noting that their Fallow-King will cover 2,000 to 3,000 acres a year. “Of course, we have the tredder on there, too, which helps get any escapes, while fluffing the soil. It definitely does a good job of breaking up any clods left in the field.

“Of course, the other thing we like about the Fallow-King is that, just like all our Sunflower equipment, it's built heavy,” he adds. “If anything, Sunflower overbuilds their machines, while some of the other brands build them too light.

Eilert believes conventional tillage is particularly important on their continuous wheat acres — which account for nearly 2,500 acres each year — as it helps manage the straw from 35 to 70 bushel-per-acre yields and reduces the risk of wheat disease. As Eric explains, the typical rotation program calls for two years of wheat, followed by a year of grain sorghum or corn, a year of soybeans and back to wheat. Naturally, the rotation program varies from farm to farm and year to year, depending on terrain, landlord preferences and rainfall.

“On the other hand, we like to plant all the row crops no-till because of the residue we're able to leave between the rows and the way it conserves moisture,” Eric continues. “However, we're looking at something different there, as well. We just purchased a new Sunflower 6630 Vertical Tillage machine after having one as a demonstrator last year, and we've actually got two things in mind.

“We're looking at replacing one of the trips with a disc on wheat stubble with a pass with the vertical till machine,” he explains. “We used one on a quarter section last year, and I was amazed at the job it did on the combine tire ruts. We're also planning to use it for some light tillage on our row crop ground. Instead of going totally no-till, we're thinking we might just run the 6630 lightly over the ground to loosen it up, while still leaving much of the residue on the surface. We think it will do a good job of just loosening up that top two inches of soil for our no-till grain drill. We've found that the vertical tillage machine helps level up the soil and lets the ground dry up just a little quicker in the spring than no-till alone.

“The true no-tillers might say we're doing it wrong,” he concludes. “But we know we're having good success with what we're doing — particularly when it comes to yields on second-year wheat."