

The 6631 Vertical Tillage Tool



SUNFLOWER

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To achieve the yields of tomorrow, farmers must control the growing environment like never before.

Tomorrow's higher yields will come from enhanced hybrid genetics, precise, variable application and some luck with the weather. Sadly, you can't always control when or how things will arrive.

But what you can control is the quality of your crops' growing environment. You can give seeds a uniform seedbed unobstructed by excess residue. You can give plants access to ground water and mellow soil that roots can easily penetrate.

You can give each plant it's best opportunity to give you it's best yield.

We've been in the tillage business for a while and that experience gives you tools that work precisely, effectively and consistently with ease. We have several decades and hundreds of millions of acres to teach us what works, what doesn't and why. Today, we offer the broadest line of tools for virtually every growing condition because every farm and every farm's needs are unique.

Tillage matters to your success. And your success matters to us.

Vertical Tillage Tools

Vertical tillage systems were created to address the varying needs of farmers. No-till or minimum till farmers found new crop varieties were more difficult to manage in terms of residue. For these farmers, a tool was needed to help breakdown residue without being as aggressive as a disc harrow.

Other farmers had a different reason for wanting vertical tillage. These farmers had growing concerns over compaction layers caused by other types of tillage in non-ideal situations. What they needed was a tool that could help manage residue, better prepare soils for planting, all while reducing horizontal movement of the soil.

Now moving into its second decade, Vertical tillage practices have had the time and opportunity to be observed and improved.

The aim of vertical tillage practices is to manage residue, open soil for warming and drying, while minimizing horizontal movement of the soil—a situation that can cause compaction layers to form.

When used correctly, a vertical tillage tool should size residue for more rapid decomposition, pin and incorporate residue for enhanced erosion resistance, and lift soil vertically for partial sizing, soil warming and soil drying while avoiding compaction layers from the lateral movement of soil.

To do the job right, a tool must have sharp blades and the ability to lift an adequate amount of soil vertically for incorporation.





6631

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The next generation Sunflower 6631

The high performance of the Sunflower Saber Blade™ on the 6631 is exclusive to Sunflower. This unique combination of low concavity, twenty-five correctly sized flutes and the serrated “sawtooth” edge works the soil like no other blade can. Sunflower Saber Blades keep cutting heavy residue long after the competitor’s blades have dulled beyond effectiveness.

The front and rear gangs of the 6631 are mounted at an 18-degree gang angle, allowing the narrowly spaced 22-inch blades to mix soil and residue to achieve the desired results. Increase the operating blade depth and move from Spring’s fast, shallow vertical tillage to Fall’s heavy crop residue management.

The 6631 SW keeps the wing wheels out to the edge of the wing maintaining the correct relationship with the front and rear gangs, ensuring superb performance and a level field.

You can choose from three finishing reels featuring:

- Flat bar reels in 11 or 14-inch diameters
- 14-inch diameter round rod “chevron” reel.
- Heavy-duty, high-residue three-row coil tine harrow.
- All finishing reels are mounted with spring-loaded arms to keep the attachment engaged and in proper adjustment.

The patented split-wing technology gives the 6631-35 and 6631-40 a low 13-foot, 5-inch transport height.

Unlike many competitors’ vertical tillage tools, Sunflower vertical tillage tool attachments are included in the Sunflower 3-Year Limited Warranty.

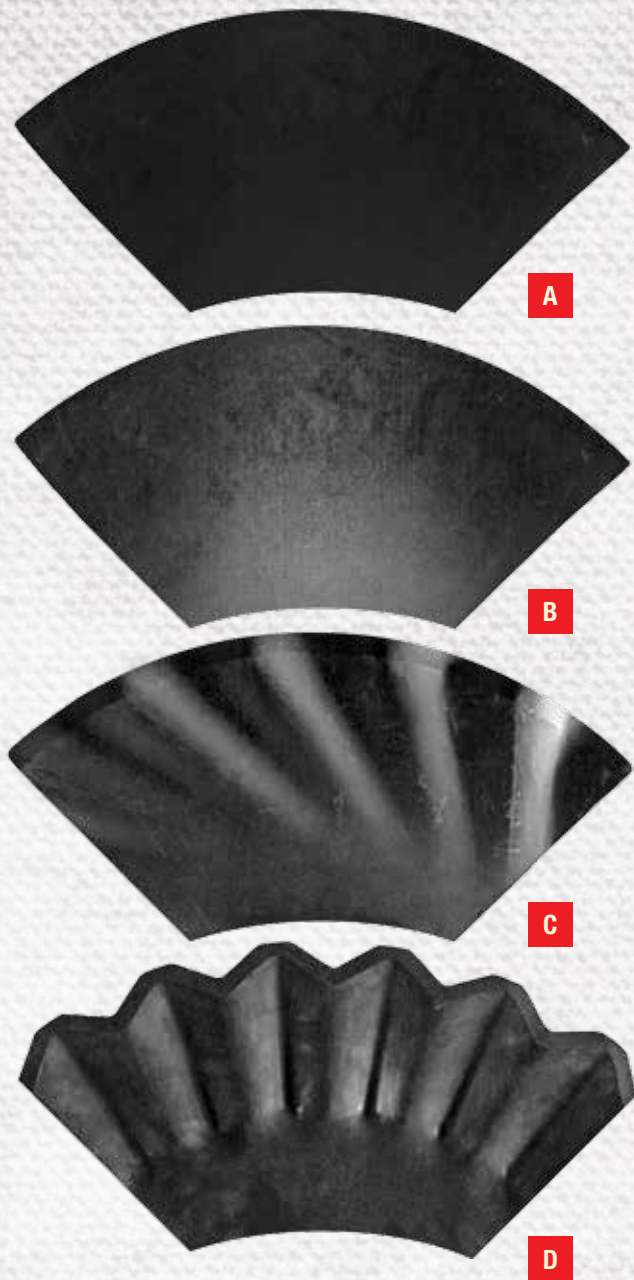
The walking tandems, gauge wheels, cab-controlled fore/aft leveling and a choice of finishing attachments are all standard equipment.







Why choose a Sunflower Vertical Tillage Tool?



Not all vertical tillage tools are the same and it pays to know where they are different. As agronomists and tillage engineers have had time to study the designs and effects of various tools, vertical tillage tools have progressed with more effective residue management, more vertical lifting of soil (as opposed to horizontal lifting) and better ease of use.

- A** Early vertical tillage tools appeared much like gangs of coulters. These tools cut residue but did little to pin incorporate residue for erosion management or decomposition.
- B** Some competitors use smooth blades but with a degree of concavity that only stir surface soil. These tools essentially work much like a disc harrow. While they can incorporate surface residue, they do it by moving soil horizontally- the very condition vertical tillage is supposed to avoid.
- C** Other tools use wavy blades that are more effective than smooth blades at lifting soil, but still struggle to create enough surface level disturbance. These tools also lose much of their effectiveness when the blades become dull.
- D** The next generation Sunflower 6631 uses Saber Blades™. Saber Blades pair a fluted design with a low concavity that creates a soil lifting action that can't be duplicated by a conventional spherical disc blade.

Each blade has twenty-five full depth flutes and features an innovative saw tooth design that maintains its cutting edge allowing it to cut through tough crop residue throughout the life of the blade.



Specifications

Model	Transport Width (m)	Transport Height (m)	Frame Size & Gang Angles 18° F /18° R	Spindle Size & Center Tire	Spindle Size & Wing Tires	True Cutting Width (m) 22" x 7 1/2"	Blade Count 7 1/2" Blade Spacing F/R	Weight (kg) (Less Attachment)
SF6631-21	13' 5" (4.1)	10' 10" (3.3)	6 - 9 - 6	(4) 2-1/4" (4) 11L GY-FI	(2) 2-1/4" (2) 11L GY-FI	20' 2" (6.1)	34/38	14,405 (6,534)
SF6631-24	13' 5" (4.1)	12' 2" (3.7)	7½ - 9 - 7-½	(4) 2-1/4" (4) 11L GY-FI	(4) 2-1/4" (4) 11L GY-FI	22' 7" (6.9)	38/42	15,683 (7,114)
SF6631-27	13' 5" (4.1)	13' 10" (4.2)	9 - 9 - 9	(4) 2-1/4" (4) 12.5L GY-FI	(4) 2-1/4" (4) 12.5L GY-FI	26' 3" (8.0)	44/48	17,633 (7,998)
SF6631-29	13' 5" (4.1)	15' 0" (4.6)	10 - 9 - 10	(4) 2-1/4" (4) 12.5L GY-FI	(4) 2-1/4" (4) 12.5L GY-FI	28' 8" (8.7)	48/52	18,705 (8,485)
SF6631-31	17' 5" (5.3)	13' 10" (4.2)	9 - 13 - 9	(4) 2-3/4" (4) 380/55R	(4) 2-1/4" (4) 12.5L GY-FI	30' 0" (9.1)	50/54	19,885 (9,020)
SF6631-33	17' 5" (5.3)	15' 0" (4.6)	10- 13 - 10	(4) 2-3/4" (4) 380/55R	(4) 2-1/4" (4) 12.5L GY-FI	32' 6" (9.9)	54/58	20,957 (9,506)
SF6631-36	17' 5" (5.3)	16' 1" (4.9)	11½ - 13 - 11½	(4) 2-3/4" (4) 380/55R	(4) 2-1/4" (4) 12.5L GY-FI	34' 9" (10.6)	58/62	21,986 (9,973)
SF6631-35	15' 4" (5.54)	13' 7" (4.1)	5 - 7½ - 10 - 7½ - 5	(4) 2-3/4" (4) 380/55R	(4) 2-1/4" (4) 12.5L GY-FI	32' 7" (9.9)	54/58	24,749 (11,226)
SF6631-40	17' 8" (5.54)	13' 7" (4.1)	6½ - 7 - 13 - 7 - 6½	(4) 2-3/4" (4) 380/55R	(4) 2-1/4" (4) 12.5L GY-FI	37' 5" (11.4)	62/66	28,824 (13,075)

NOTE: Specifications may vary slightly based on tires, hydraulic system or other possible variances.



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