



MASSEY FERGUSON

MF TILLAGE EQUIPMENT



Vertical Tillage

~~6610~~ | ~~6631~~ | ~~6650~~

Vertical tillage systems were created to address different needs than those of traditional tillage systems.

Farmers using no or minimal tillage in their operations found new crop varieties were more difficult to manage in terms of residue. They needed a tool to help with residue breakdown that was less aggressive than a disc harrow. Other farmers wanted a tool that could help manage residue and better prepare soils for planting with reduced horizontal movement.

Now moving into their second decade, vertical tillage practices have had time and opportunity to be observed and improved. Their aim is to manage residue and open soil for warming and drying while minimising its horizontal movement and reducing compaction layers.



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 produced by the soil's lateral movement.

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

The different generations and results of vertical tillage tools.

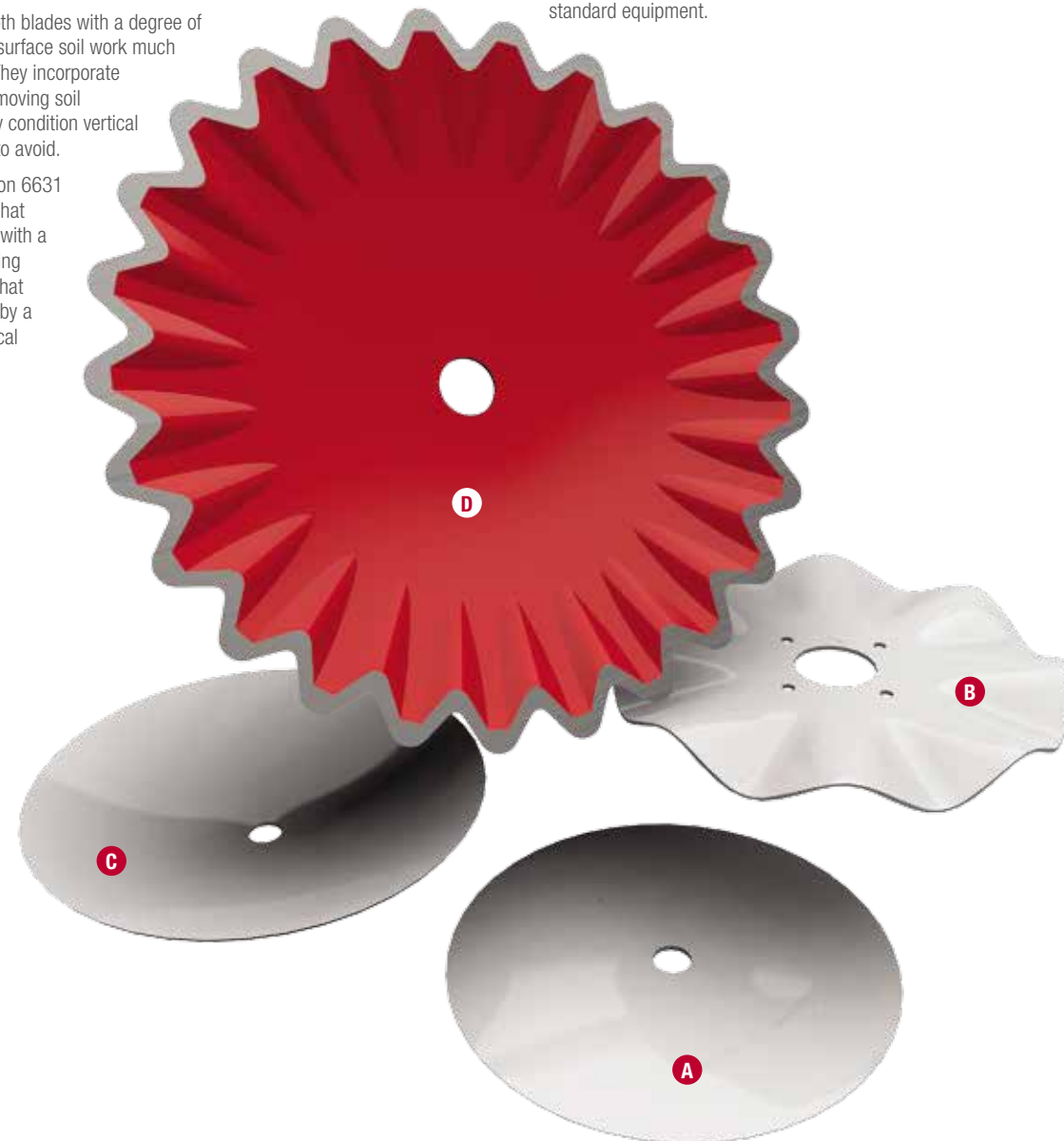
Not all vertical tillage tools are the same. As agronomists and tillage engineers have had time to study their designs and effects, vertical tillage tools have become more effective at residue management, better at lifting soil vertically (as opposed to horizontally) and easier to use.

- A** Early vertical tillage tools appeared much like gangs of coulters. These tools cut residue but did little to pin and incorporate residue for erosion management or decomposition.
- B** The next evolution of tools used wavy blades that were more effective in lifting soil but struggled to create much surface-level disturbance. These tools also lost much of their effectiveness when the blades became dull.
- C** Tools that use smooth blades with a degree of concavity that stirs surface soil work much like a disc harrow. They incorporate surface residue by moving soil horizontally, the very condition vertical tillage is supposed to avoid.
- D** The Massey Ferguson 6631 uses Saber Blades that 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 saw-tooth design that maintains its cutting edge to cut through tough crop residue throughout the life of the blade.

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

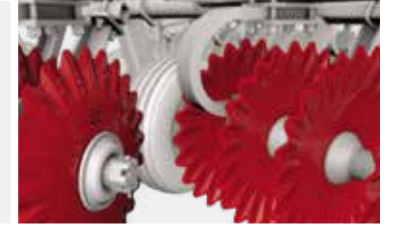
Patented split-wing technology gives the 6631 – 35 and 6631 – 40 a low 13' 7" transport height. Unlike many competitors, Massey Ferguson's vertical tillage tool attachments are included in the three-year limited warranty. The walking tandems, gauge wheels, cab-controlled fore/aft leveling and a choice of finishing attachments are all standard equipment.



Series Features

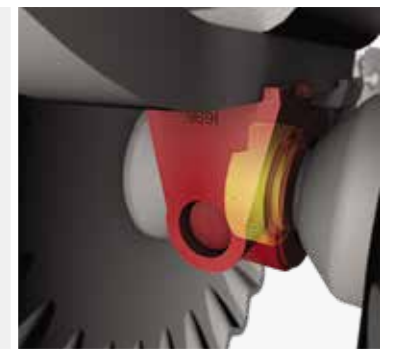
Massey Ferguson Saber Blade

This 22-inch-diameter blade has 25 soil-lifting flutes designed with scallops to maintain an effective cutting edge acre after acre. No grinding or rolling is necessary to maintain its edge.



Trunnion-Mounted Bearings

Eliminate wear between the bearings and the housing and ensure positive lubrication. As the C-Flex™ bearing standards move, the gang bearings constantly realign. On conventional bearing systems, the bearing moves within the housing, which leads to wear and eventually failure because grease cannot get into the bearing. With the trunnion bearing, there is never any wear between the bearing and the 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 sticks or material wrapping around the gang shaft.



C-Flex™ Bearing Standards

Massey Ferguson's trunnion bearings provide positive alignment, eliminate side-loading of the bearings and the housing and ensure positive lubrication. As the C-Flex™ bearing standards move, the gang bearings have to constantly realign. On conventional bearing systems the bearing cannot move within the housing. This eventually leads to bearing failure, because the bearing cannot maintain alignment with the arbor as the C-Flex standards move. With the trunnion bearing there is never any wear between the bearing and the 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 sticks or material wrapping around the gang shaft.



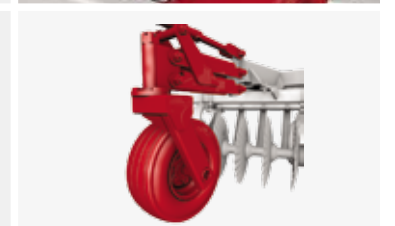
Single-Point Depth Control

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



Front-Mounted Gauge Wheels

A trademark on all flexible Massey Ferguson tools is front-mounted gauge wheels. This important feature prevents the front gangs of the wing frame from gouging, buckling or cutting deeper than the other gangs, promoting a level, ridge or furrow-free field. The heavy-duty gauge wheels feature a five-bolt hub and 8 x 10 ply tyre.



Hydraulic Self-Leveling Hitch

Level the disc frame from front to rear with Massey Ferguson'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, important when crossing ditches or rough terrain.



Maintenance-Free UHMW

Massey Ferguson 6630s are equipped 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.



Models

New 6610

Working width of 10' 7" to 14' 4"

The new 6610 is a single section framed addition to the 6600 Series of vertical tillage tools. Massey Ferguson now has a vertical tillage tool to fit every farm. The 6610 has all the features and delivers the same high level of performance of the larger Massey Ferguson vertical tillage tools; performance and features demanded by today's farmers.

New 6631

Working width of 20' 2" to 37' 5"

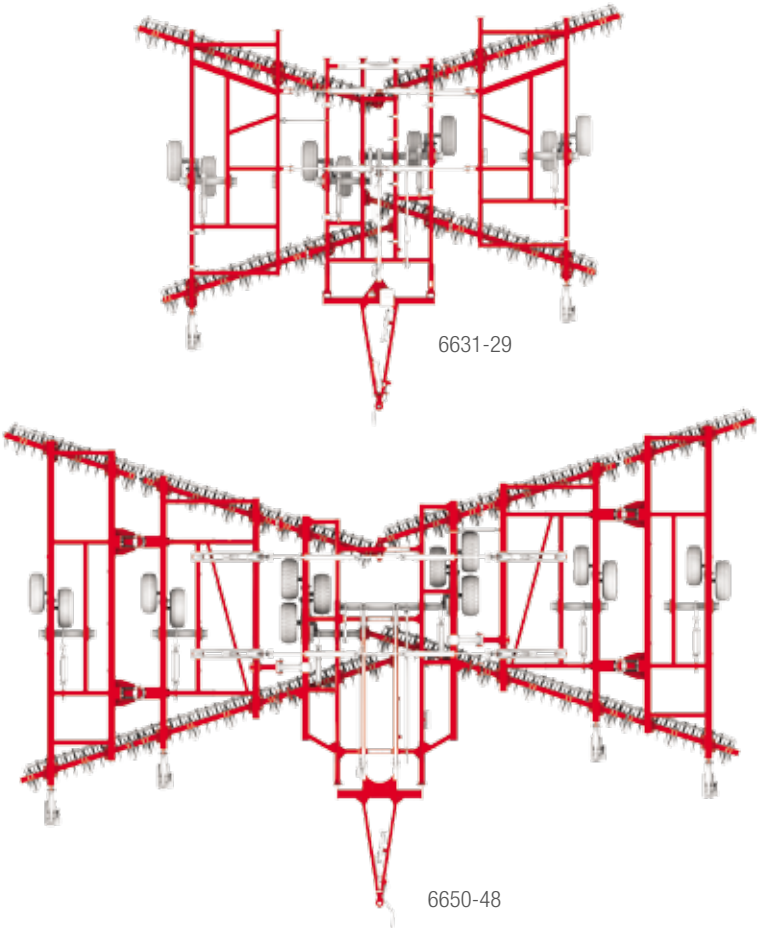
The unique Massey Ferguson Saber blade slices through heavy ~~GMO~~ crop residue, sizing and mixing it with soil to speed its decay and leave the field level, with the remaining material sized for the planter. The ratio of soil to residue is determined by the operating depth of the tool. An operating depth of 2 inches, for example, will produce a sized ~~corn~~ crop residue mixed with enough soil to anchor the residue and protect against erosion by wind or water. Increasing the operating depth will lift more soil and enhance the decomposition process.

Each Massey Ferguson Saber blade has 25 flutes designed to fracture and lift the soil. Their capacity results in the maximum amount of soil lift without producing clods, anchoring residue and creating the proper mix to enhance residue decomposition. The high-speed conditioning reels aggressively mix the material, separating solids and fines while firming the soil.

New 6650

Working width of 47' 10"

Combining Massey Ferguson's exclusive Saber blade with the proven staggered offset gang design in a large, 47' 10" five section frame to maximize large horsepower tractors consuming over thirty-eight acres per hour.



Specifications

Model	Working width (m)	Transport width (m)	Transport height (m)	Weight lbs. (kg)	H.P. requirements
6610					
6610-11 (6 ga. blades)	10' 7" (3.218)	13' 1" (3.99)	6' 0" (3.3)	7,232 (3280)	8 to 10 hp/ft
6610-11 (4 ga. blades)	10' 8" (3.243)	13' 2" (4.01)		7,404 (3358)	
6610-14 (6 ga. blades)	14' 3" (4.34)	16' 9" (5.11)		8,785 (3985)	
6610-14 (4 ga. blades)	14' 4" (4.37)	16' 11" (4.16)		9,063 (4111)	

Model	Working width (m)	Transport width (m)	Transport height (m)	Weight lbs. (kg)	H.P. requirements
6631					
6631-21	20' 2" (6.1)	13' 5" (4.1)	10' 10" (3.3)	14,405 (6534)	8 to 10 hp/ft
6631-24	22' 7" (6.9)		12' 2" (3.7)	15,683 (7114)	
6631-27	26' 3" (8.0)		13' 10" (4.2)	17,633 (7998)	
6631-29	28' 8" (8.7)		15' 0" (4.6)	18,705 (8485)	
6631-31	30' 0" (9.1)	17' 5" (5.3)	13' 10" (4.2)	19,885 (9020)	
6631-33	32' 6" (9.9)		15' 0" (4.6)	20,957 (9506)	
6631-36	34' 9" (10.6)		16' 1" (4.9)	21,986 (9973)	
6631-35	32' 7" (9.9)	15' 4" (5.54)	13' 7" (4.1)	24,749 (11226)	
6631-40	37' 5" (11.4)	17' 8" (5.54)		28,824 (13075)	

Model	Working width (m)	Transport width (m)	Transport height (m)	Weight lbs. (kg)	H.P. requirements
6650					
6650-48	47'-11" (14.60)	18' 2" (5.19)	13' 11" (4.09)	36,330 (16479)	8 to 10 hp/ft

Finishing Attachments

Reels

Available in 11 or 14-inch diameter flat-bars or 14-inch diameter round bars the finishing reels enhance the performance by shattering clods and root wads. It also aids in a final mixing of soil surface materials and assist in the final leveling of the soil surface and tying residue to the soil surface.



Three-row coil-tine harrow

The H.D. harrow has 1/2" x 22" heavy duty tines on 12" centers, creating a 4" overall tine spacing. The three bar configuration has 13" spacing between rows for better residue flow. Adjustable spring loaded parallel mounting arms provide the necessary down pressure.





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