



MASSEY FERGUSON



FROM MASSEY FERGUSON

Massey Ferguson VE Series Planters

Precision Meets Performance

Straightforward. Dependable. Accurate.

Introducing Massey Ferguson VE Series planters.



Timing is everything. From planning your season, to buying inputs, to marketing your grain and getting the seed in the ground, your operation is all about optimizing your timing. When Spring rolls around and soil temperatures hit 50 degrees, it's critical that your planter is ready to help you make the most of your small window of time and ensure your crop can maximize its yield potential. That's where the new Massey Ferguson® VE Series planters come in, offering you consistent results through straightforward, dependable design that puts the focus on accurate planting.

The MF VE Series is part of a long tradition of accurate planting with minimal downtime, wear or required maintenance. This latest evolution is powered by the latest innovations from Precision Planting®, integrated right at the factory to make sure you're planting at the proper depth with the right spacing and singulation. That's how you make the most of your time. That's how you get your best yields.

At Massey Ferguson, every month is April

Planting isn't something that happens just once a year. It's something that carries through the year to drive your crop's yield potential.

Massey Ferguson VE Series planters give you the tools you need for straightforward, dependable and accurate performance. Plus, you'll get the data you need to refine your strategies year-round.



Heads Up Row Unit

Built off the proven design of White Planters® row units, this new unit is the latest evolution from Massey Ferguson and features a number of improvements to enhance its accuracy and longevity. It also allows for quick and easy Precision Planting add-ons, such as SpeedTube®.



Precision Planting

Manage every row individually in real time to provide greater accuracy. Several of the new Massey Ferguson VE Series planters feature the latest offerings from Precision Planting right from the factory, including vSet2® meters, vDrive®, and DeltaForce®. All planters have the ability to easily add components at your local Premier Precision Planting dealer.

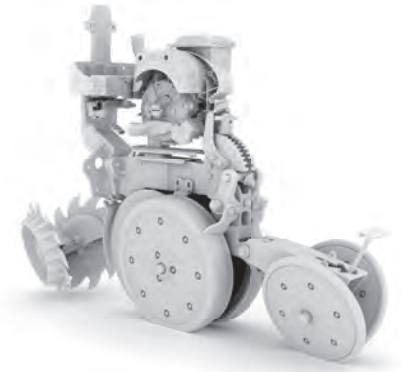


Capacity

The new Massey Ferguson VE Series planters feature either individual 3 bu. row unit hoppers or a central fill system of up to 90 bu. 300-, 500- and 750-gallon liquid fertilizer options are available, depending on the model. Dry fertilizer and insecticide options are also available.

The new Heads Up Row Unit

The new Heads Up Row Unit is designed with one simple goal in mind, reliable accuracy. While its design roots run deep, this row unit is designed to pair with the most advanced Precision Planting technology available today. Several design changes have been introduced to increase the longevity of the row unit itself including wider gauge wheel arms, thicker material to strengthen the shank, a new liquid fertilizer opening positioned ahead of the seed tube for better protection and placement, a new seed tube guard for easy maintenance, and thicker cast materials used throughout the design.



MF VE SERIES PLANTERS



Row/Spacing	Metering System		Frame/Folding			
	Positive Air	Vacuum Electric (VE)	Rigid	Wing	Stack	Front
6 row 30"	✓		✓			
8 row 30"	✓		✓			
12 row 30"	✓	✓		✓	✓	✓
12 row 36"		✓			✓	
12 row 38"		✓			✓	
12 row 40"		✓			✓	
16 row 30"		✓			✓	✓
23 row 15"		✓				✓
24 row 20"		✓				✓
24 row 22"		✓				✓
24 row 30"		✓				✓
36 row 20"		✓				✓
36 row 22"		✓				✓
36 row 30"		✓				✓

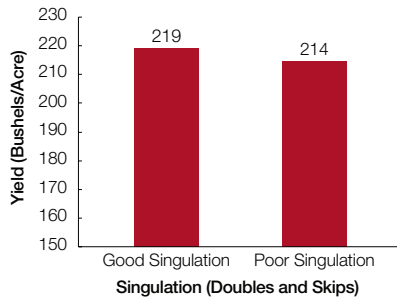
Crop Tour and dealer support



For more than five years, we've been conducting field trials all over North America (and the world for that matter), aptly titled, "Crop Tour." These agronomic trials are geared toward optimizing planter settings and equipment features to maximize yield potential.

Take a look at these four major highlights from five years of data collected from more than 20 Crop Tour plots around North America.

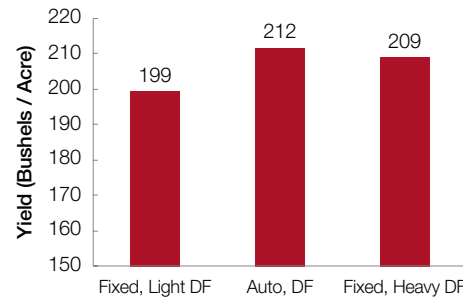
Singulation



Quantified the yield impact of poor seed singulation (% of skips & doubles) in corn across 22 different fields* using modified seed plates installed on certain row-units to intentionally create skips and doubles and found:

Payback**: \$22.50 return per acre improvement when singulation was improved in our study.

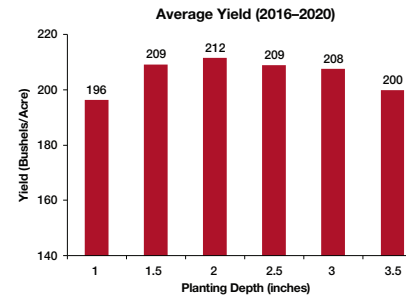
Downforce (DF)



Compared automatic downforce control using DeltaForce against two fixed down pressure settings and found:

Payback*: If planting with too little fixed downforce pressure, the average cost of not using DeltaForce was \$58.50** per acre in this study. If planting with excessive fixed downforce pressure, the average cost of not using DeltaForce was \$13.50*** per acre in this study.

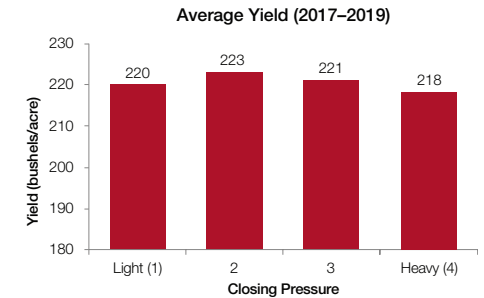
Depth of Planting



Determined the optimum planting depth for corn across multiple* locations and growing environments and found:

Payback**: The cost of planting too shallow (1 vs. 1.5) was \$58.50 per acre in this study, whereas the cost of planting too deep (3 vs. 3.5) was \$36 per acre.

Closing Wheel



Measured the yield impact of closing wheel aggressiveness across eight different locations* and found:

Payback**: \$22.50 return per acre improvement when closing wheels were in setting two compared to setting four in our study.

Everything in the MF VE Series is geared toward precision

Achieve 99% accuracy and manage every row individually in real time with the latest innovations from Precision Planting.



Monitor

High-definition data enables high-impact decisions. The new 20120[®] monitor provides the most advanced agronomic picture you've ever seen. Optimize planting, harvest and application decisions with a smart, intuitive interface that visualizes performance and field conditions in real time.



DeltaForce

DeltaForce, the most accurate row-by-row down force system, features hydraulic cylinders and load cells that measure how much weight is being carried on the row unit gauge wheels and keep it consistent. The operator sets a weight that should be carried on the gauge wheels, and DeltaForce does the rest, maintaining the same weight on the gauge wheels of every row, or across different fields or variations within a field. With DeltaForce, the hidden yield loss from compaction is eliminated, and each row is planted at the depth that was set.



vSet2

vSet2 with vDrive provides perfect singulation. By using a flat disk, it doesn't have a cell with a "preference" for a certain seed size. The flat disk, combined with a singulator riding on the edge of the disk knocking off extra seeds, gives you 99% singulation accuracy in corn and soybeans without adjustments to vacuum, disk or singulator.



SpeedTube

SpeedTube[®] combines with other systems from Precision Planting to create a high-speed planting system that ensures that as you speed up, yield potential is not going down. SpeedTube uses a flighted belt to control the descent of the seeds into the seed trench, and they don't tumble in the furrow because the seed release is matched to ground speed.



SRM 3 Single Row Module (SRM)

The SRM3 and Can Extension Hub enables plug-and-play additions of Precision Planting's most popular products such as SmartFirmer, FlowSense, Conceal, FurrowForce and others. Also, each new Heads Up Row Unit is factory-equipped with the Quick-Attach brackets for SeedFirmers and FurrowForce applicators.



Customize your MF VE Series planters to fit your operation's needs with these plug and play aftermarket options



Conceal

Conceal[®] is a simple nutrient placement device from Precision Planting that places fertilizer in a band incorporated into the soil so the plant will be able to get those nutrients during the critical ear set stage. Conceal can be utilized to put either a single or dual band of nutrients down beside the row.

Conceal is a combination of a gauge wheel which has a groove in it, and a knife running in the groove.



Gauge Wheel Options or Deducts

A gauge wheel deduction option is now available. This option permits the exclusion of the traditional 4.5" factory-installed gauge wheels. Several popular gauge wheel styles and widths are available for field installation. Choose the solid or spoked wheels in 3" or 4.5" widths, as well as gauge wheel scrapers. This option is a requirement to run Conceal.



FurrowForce

The all new FurrowForce[®] from Precision Planting is an automated row-by-row control system that provides visibility to closing performance on a 20I20 display in the cab. FurrowForce uses two stages to both close the furrow and manage soil density. The first stage pinch wheels are set wider than traditional systems and move soil horizontally to remove air gaps. Following are the second stage stitch wheels that create the proper soil density for moisture retention and speedy germination.



SmartFirmer

Precision Planting's SmartFirmer[®] is a seed-firmer sensor that is measuring the furrow as it is firming each seed into the bottom of the trench. SmartFirmer helps you know that the environment that the seed is being placed in is in good shape, but can also help you determine what type of variability you may have in your field. SmartFirmer measures and displays soil moisture in the cab so you can make adjustments to get seeds into adequate moisture.



FlowSense

FlowSense[™] from Precision Planting tells you liquid application rate on each row. Displayed on the 20I20 display in the cab, you will know what rate each row is receiving, and be able to fix issues if they are occurring.



Available options and attachments



Single-Disc Opener/Liquid Injector

Designed for no-till, minimum-till and conventional tillage operations, this single disc fertilizer opener/liquid injector features a spring-mounted tine injector nozzle for liquid fertilizer application. Liquid fertilizer is placed in the soil without the use of a knife, providing plug-free operation.



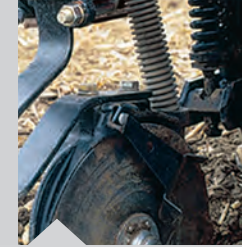
Single-Disc Opener/Side Knife Liquid or Granular Application

Designed for no-till and minimum-till applications, this single-disc fertilizer opener features an austempered side profile knife to place fertilizer up to 4 inches (102 mm) deep, providing effective placement of fertilizer with minimal adjustment.



Single-Disc Opener/Trailing Knife Liquid or Granular Application

Designed for no-till planting conditions, this 17-inch (432 mm) disc and knife work well in firm, no-till soil that has residue on the soil surface. The disc cuts residue at the soil surface, and the trailing knife places the fertilizer with minimum soil disturbance.



Double-Disc Opener for Liquid or Dry Application

Designed for conventional and minimum-till applications. Two 13.5-inch (343 mm) diameter discs are C-spring mounted to an adjustable clamp.



Disc Trash Master

Two 12-inch (305 mm) diameter solid discs clear a clean path in front of the seed openers, moving residue to the side to avoid hair pinning residue into the seed trench. Adjusts in 1/4-inch (6 mm) increments.



Combination Residue Manager/Blade

Finger wheels or SharkTooth wheels clear seedbed of loose residue while blade works seedbed path. Simply pin the residue wheels up to use the tillage coulters alone.



Tillage Coulters

The coulters and the row unit both work off the same planter parallel links for a precise alignment and depth relationship. The constant alignment of the coulters and disc openers ensure that the seed is placed in a seed trench with no air space below the seed that could cause poor seed-to-soil contact and slow germination.



Floating Residue Manager

Thirteen-inch (330 mm) SharkTooth wheel and depth bands provide aggressive residue movement from the path of the row unit. The unit-mounted residue wheels float over the surface, and the depth bands assure the right depth of operation and prevent gouging or furrowing of the soil.



Finger Residue Manager

Ideal for medium to high residue levels, the 13-inch (330 mm) diameter steel finger wheels clear residue away from the seed opener. Adjusts in .25-inch (6 mm) increments so you can set it low enough to move residue aside, yet high enough to avoid creating an unwanted trench.



Angled Rubber Press Wheels

Improve seed-to-soil contact in heavier soil and moderate no-till conditions. Adjust wheels by offsetting them or changing width from 1.25 to 2.88 inches (32 to 73 mm) for improved performance at various seed depth and soil conditions. Adjustable down pressure: 50 to 133 lbs. (23-133 kg.)



Angled Cast-Iron Press Wheels

Great for closing the toughest seed trench. Recommended for tough no-till. Adjust wheels by offsetting or changing width for improved performance in high-residue and no-till conditions. Adjustable down pressure: 115 to 310 lbs. (52-141 kg.)



Single V-Trench Press Wheel

Firms both sides of the seed trench in mellow soil conditions. Advantageous for shallow planting in tilled soil. The center of the seed trench is capped for a soft top. Adjustable down pressure: 50 lb. to 133 lb. (23-133 kg.)



5/16" Ripple Blade

Creates little soil disturbance and operates well at all speeds. It provides a narrow seed trench of less than 3/4 inches (19 mm). For heavy residue or sod, the blade slices through the toughest conditions.



3/4" Bubble Blade

Wedges soils apart to provide a V-seed trench and operates well at most speeds. It provides a seed trench profile of less than 3/4 inches (19 mm) in the bottom to 1 1/4 inches (32 mm) on the top. Works well in compacted soils with high residue.



7/8", 13 or 25-Flute Blades

The 13-flute provides aggressive soil and residue mixing. The 25-flute is less aggressive. Both operate well at most speeds. They provide a seed trench width of 7/8 to 1 1/4 inches (22 to 32 mm). Cuts through residue very well and ideal for medium soils.



Piston Pump

The variable-stroke, double-acting, single- or double-piston metering pump dispenses a consistent flow of liquid fertilizer. All internal parts that come in contact with fertilizer are stainless steel. Additionally, on the MFVF16-30 and MFVF24-30, variable rate pumps (electric and centrifugal) are available.



Flow Divider Package

The piston pump flow divider provides optimum liquid fertilizer metering accuracy to each fertilizer opener. The application rate per acre remains constant over a wide range of planting speeds.

Specifications

Model Family	MFPR	MFPW	MFVW	MFVN
Frame Type	pull-type, rigid, single bar	pull-type, horizontal forward wing-fold flex, single bar, 2-section	pull-type, horizontal forward wing-fold flex, single bar, 2-section	pull-type, forward wing-fold, flex, single bar, 3-section
Rows/Spacing Available	6R30, 8R30	12R30	12R30	12R30/23R15FN, 24R20, 24R22
Metering Units	Positive Air	Positive Air	Vaccum Electric	Vaccum Electric Ready
Hitch on Planter	Adjustable Clevis	Adjustable Clevis	Adjustable Clevis	Adjustable Tab Hitch
Frame Flex	none	10° up/10° down	10° up/10° down	8° up/8° down
Frame Size in (mm)	7 x 7 (178 x 178)	7 x 7 (178 x 178)	7 x 7 (178 x 178)	7 x 7 (178 x 178)
Planting Capabilities	Conventional till No-till Ridge-till	Conventional till No-till	Conventional till No-till	Conventional till No-till
Drive - Standard	ground chain & sprockets	ground chain & sprockets	Infinitely variable electric drive	Infinitely variable electric drive
Drive - Optional	none	none	none	none
Transmission - Standard	Quick-adjust, center-mounted. Interchangeable sprockets provide 32 settings to obtain seed rate increments of less than 4%.	2 transmissions, 1 on each wing Quick-adjust, interchangeable sprockets Provide 32 settings to obtain seed rate increments of less than 4%.	none	none
Lift System	wheel module w/hydraulic cylinder	wheel module w/hydraulic cylinder	wheel module w/hydraulic cylinder	wheel module w/hydraulic cylinder
Number	4	6	6	6 on 23R, 8 on 16R, 8 on 24R
Tires				
Transport Tire Size	9.5L-15, 6 ply	9.5L-15, 6 ply	9.5L-15, 6 ply	31x13.5L-15, 12 ply
Number of Trans Tires	4	4	4	4
Total Tires per Planter	4	4	4	8 (6 on 23R)
Optional	—	—	—	—
Blower Drive - Standard	direct drive from tractor remote valve	direct drive from tractor remote valve	direct drive from tractor remote valve	direct drive from tractor remote valve
- Optional	pto-driven hydraulic pump	pto-driven hydraulic pump	pto-driven hydraulic pump	direct drive from tractor remote valve
Hopper Capacities	2 or 3 (70.5 or 105.7)	2 or 3 (70.5 or 105.7)	1.9 (67)	CFS 90 (31720, 2@45 (1586)
Seed Hopper bu (L)				
Fertilizer Capability	liquid or granular (ground driven)	liquid (ground driven)	liquid (ground driven)	none
Monitor (Optional)	10.1" Color Touch Screen monitor, harnesses, and radar.	10.1" Color Touch Screen monitor, harnesses, and radar.	10.1" Color Touch Screen monitor, harnesses, and radar.	10.1" Color Touch Screen monitor, harnesses, and radar.
Remote Control Valve Requirements	2 for tractor hydraulic-driven blower 1 with pto-driven blower pump	3 for tractor hydraulic-driven blower 2 with pto-driven blower pump	4 with Delta Force 3 without Delta Force	5 with Delta Force (not factory equipped; Delta Force only fits on corn rows for 23R15)
Sensors - Standard	High Rate	High Rate	High Rate	High Rate
Optional	none	Seed Smart	Wave Vision	Wave Vision
ISOBUS-Ready	No	No	No	No
Transport Width ft (m)	6RN - 16'1" (4.90) 8RN - 20'9" (6.32)	16'4" (4.98)	16'4" (4.98)	23R15 - 16'8" (5.08) 24R20 - 16'3" (4.95) 24R22 - 15'8" (4.78)

MFVS	MFVF	MFVT	MFFT
mounted, stack fold, single bar	Narrow Transport, front fold	Narrow Transport, front fold, tracks	Large Frame, Flex, front fold, tracks
12R30, 12R36, 12R38, 12R40, 16R30	12R30, 16R30, 24R30	24R30	36R20, 36R22, 36R30
Vaccum Electric Ready	Vaccum Electric	Vaccum Electric	Vaccum Electric
Adjustable ASAE Category III or IIIN	2 pt or drawbar	Drawbar Swivel Hitch	Drawbar Swivel Hitch
5" up/ 5" down or pin rigid	21" up/ 21" down	36R-30" = 42° each wing (2 section wing), 36R-20" & 36R-22" = 21° degrees each wing	36R-30" = 42° each wing (2 section wing), 36R-20" & 36R-22" = 21° degrees each wing
7 x 7 (178 x 178)	7 x 7 (178 x 178)	7 x 7 (178 x 178)	7 x 7 (178 x 178)
Conventional till No-till	Conventional till No-till	Conventional till No-till	Conventional till No-till
Infinitely variable electric drive	Infinitely variable electric drive	Infinitely variable electric drive	ISO CAN-based variable rate hydraulic drive
none	none	none	none
none	none	none	Hydraulic controller & motor with infinite population settings
tractor three-point hitch	wheel module w/hydraulic cylinder	dual master slave	dual master slave
	6 on 12R30 8 on 16R30 10 on 24R30	4 on 36R-20" & 36R-22" 8 on 36R-30	4 on 36R-20" & 36R-22" 8 on 36R-30
9.5L-15, 6 ply 16R30: 2 Lift Assist (Optional) 4 on 12R/16R, 6 Optional on 16R -	12R30 10-15 F1 Load Range D, 16/24R30 VF295/75R22.5 6 on 12R30, 8 on 16R30, 10 on 24R30 -	25" or 30"x67" track offerings	36R-20", 36R-22", 36R-30": (2) 30" x 67" Tracks 36R20" & 36R-22" 2 tires per wing; total of 4 per planter. 36R-30" 4 tires per wing; total of 8 per planter Tires: 33x15.5-16.5, 12 ply
direct drive from tractor remote valve	direct drive from tractor remote valve pto-driven hydraulic pump and reservoir	direct drive from tractor remote valve	direct drive from tractor remote valve
1.9 (67)	1.9 or 90 CFS	150 CFS	150 CFS
none	liquid (ground driven)	liquid (tanks only)	liquid
10.1" Color Touch Screen monitor, harnesses, and radar.	10.1" Color Touch Screen monitor, harnesses, and radar.	10.1" Color Touch Screen monitor, harnesses, and radar.	10.1" Color Touch Screen monitor, harnesses, and radar.
16R30: 5 with Delta Force (not equipped from factory), Lift Assist (Optional) 12R30/36/38/40: 4 with Delta Force (not equipped from factory)	16R30/24R30: 5 with CFS and Delta Force, 4 with hoppers and Delta Force, 3 without CFS and Delta Force, 4 with PTO pump, CFS, Delta Force 12R30: 4 with CFS and Delta Force, 3 without Delta Force, 3 with PTO pump and Delta Force	7 with markers 6 less markers **Liquid drive unaccounted for	4 for tractor hydraulic-driven blower
High Rate	High Rate	High Rate	High Rate
Wave Vision	Wave Vision - Speed Tubes	Wave Vision - Speed Tubes	Seed Smart
No	No	No	Yes
12R30 - 20'8" (6.30) 12R36 - 20'4" (6.20) 12R38 - 25'0" (7.62) 12R40 - 25'0" (7.62) 16R30 - 26'2" (7.97)	12' (3.65)	9936-20 & 9936-22: 16'2" 9936-30: 15'	9936-20 & 9936-22: 16'2" 9936-30: 15'



You don't want the latest digital farming tools "just because." You want them to contribute to a better cost of ownership and cost per acre.

Fuse is the leading global open platform for digital farming products operated by AGCO Corp, supporting AGCO's brands and the aftermarket with a comprehensive and customizable suite of non-proprietary solutions that empower you to make the best decisions and maximize your profitability. Ask your dealer how Fuse adds value to AGCO® products and to your bottom line.



Ask your dealer about AGCO Protection, an extended warranty program that prolongs your coverage and safeguards against the cost of sudden breakdowns that disrupt your business with expensive repairs and costly downtime.



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

