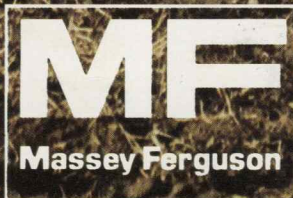


Massey Ferguson

294, 274, 254



# **New Massey-Ferguson 4-wheel drive tractors make a wise investment**

Farming profitably today calls for new and more efficient ways of doing things. And one of the ways to do this is by making sure you get maximum return on every dollar you invest in a new tractor.

That's why Massey-Ferguson introduced this new line of 4-wheel drive tractors. They're built from front to back to turn out more work...in more kinds of conditions...at less operating cost than comparable sized 2-wheel drive tractors.

There's three models available — the 67\* hp(50.0 kw) MF 294, 55\* hp(41.0 kw) MF 274 and 42\* hp(31.1 kw) MF 254.

The additional traction provided by their 4-wheel drive capability makes them ideal for cleaning out sloppy feedlots, pulling grain wagons through muddy fields, climbing steep slopes and similar jobs.

But don't get the idea they're just chore tractors. Put an implement behind them, and you'll quickly discover another benefit of 4-wheel drive. It significantly increases drawbar pull so you can cover more acres per day in any kind of field conditions.

And the reduced wheel slippage you get with these new MF tractors means you'll burn less fuel and have less wear and tear on your tires. Two good ways to save money in a hurry.

Fuel-efficient Perkins diesel engines keep operating costs low on these tractors. Rugged, syncromesh transmission features 12 forward and 4 reverse speeds. Great for field, feedlot or road hauling.

If you use tractors in this horsepower range...you owe it to yourself to get all the details on these new Massey-Ferguson 4-wheel drives. They're built for today's kind of farming where every day and every dollar counts.

\*Manufacturer's estimated PTO horsepower.



# MF features offer greater maneuverability and longer life

There are several good reasons why these new Massey-Ferguson 4-wheel drive tractors out-maneuver and out-live the competition.

For one thing, they're not 2-wheel drive tractors that have been converted to 4-wheel drive. Each is designed from the ground up to deliver all the benefits 4-wheel drive has to offer. And that can mean a lot in terms of performance and handling ease.

## Non-protruding final drives

Final drives on the front wheels are built so they don't protrude beyond the outside edge of the tires. And that's a real advantage when you need to work close to buildings and fences, or in places where space is limited.

The rugged planetary design of the front axle final drives assures long life and dependable service. Front axle features a malleable cast iron casing to stand up to hard use and tough going.

Power to the front wheels can be engaged or disengaged by a

conveniently placed lever.

The 4-wheel drive capability of these tractors also makes them easier to steer in deep mud and similar conditions. Standard hydrostatic power steering further improves maneuverability while reducing stress and strain. Steering system features an independent hydraulic pump and circuit for fast response, even with heavy front-end loads.

## High ground clearance

Ground clearance under the front axle is excellent on these MF 4-wheel drives, allowing you to work in conditions that would stop many tractors. Clearance measures 16.5 in. (419.1 mm) on the MF 294, 14.0 in. (355.6 mm) on the MF 274 and 12.0 in. (304.8 mm) on the MF 254.

Centrally-mounted differential clears trash and other obstacles so you can do more work in a day and do it faster.

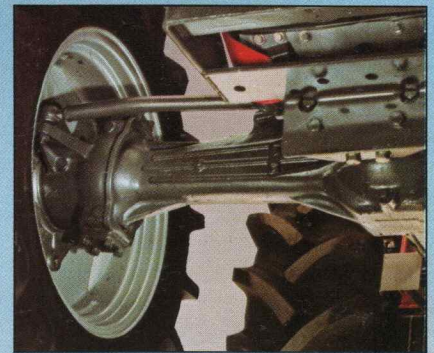
Front drive line is shielded to prevent weeds and other material from wrapping around the shaft.

Eliminates time-consuming stops and frustration.

## Balanced weight distribution

Weight is well distributed over the front and rear axles on these new MF 4-wheel drive tractors. Every pound is put to good use to improve traction and stability so you can work more efficiently.

All these features are your assurance that when you buy a Massey-Ferguson 294, 274 or 254 4-wheel drive tractor, you're getting more return for your dollar.



High ground clearance lets you work in trash and deep mud for greater productivity. Front axle housings are malleable cast iron to decrease expensive downtime. Standard hydrostatic power steering means less fatigue.



# Perkins diesel power saves fuel and reduces downtime

Fuel efficiency is a high priority for any farmer today. But at the same time, no one can afford to sacrifice pulling power and lugging ability, either.

With the rugged Perkins diesel engines used in these new MF 4-wheel drive tractors, you get the best of both worlds.

## Direct injection design

The direct injection design of these engines assures maximum operating efficiency. Fuel is injected directly into the piston cavity through a multi-hole injection nozzle for proper mixing of fuel and air. This not only reduces fuel consumption, but also provides easier starting.

The rotary fuel pump has no delivery valves. Instead, the injectors are fed directly. This design virtually eliminates the need for field adjustments.

Proper timing is assured throughout the life of the engine thanks to an all-gear drive on the fuel pump and cam shaft.

Standard oil bath air cleaner protects the engine from dust and dirt, even in the worst operating conditions. Reduces expensive wear on engine components.

Perkins diesel engines are also designed so that the cylinder sleeves and pistons can be replaced quickly and easily if it's ever required. Keeps your MF tractor running smoothly year after year with minimal downtime.

## Greater lugging power

The big bore and long stroke built into these Perkins engines gives you extra power when you need it most.

Pistons are aluminum with bowl-type combustion chambers for extra torque. They deliver big lugging power at low rpm to move you through tough spots without having to shift down. Saves time and effort.

Crankshafts are induction hardened to provide years of dependable use. Special lubrication and filtration systems prolong the life of the main bearings. It all adds up to less time in the shop...more time in the field.

## Easy servicing

And, since time is money, the Perkins diesel engines in the MF

294, 274 and 254 are designed to make both short and long-term maintenance as fast as possible.

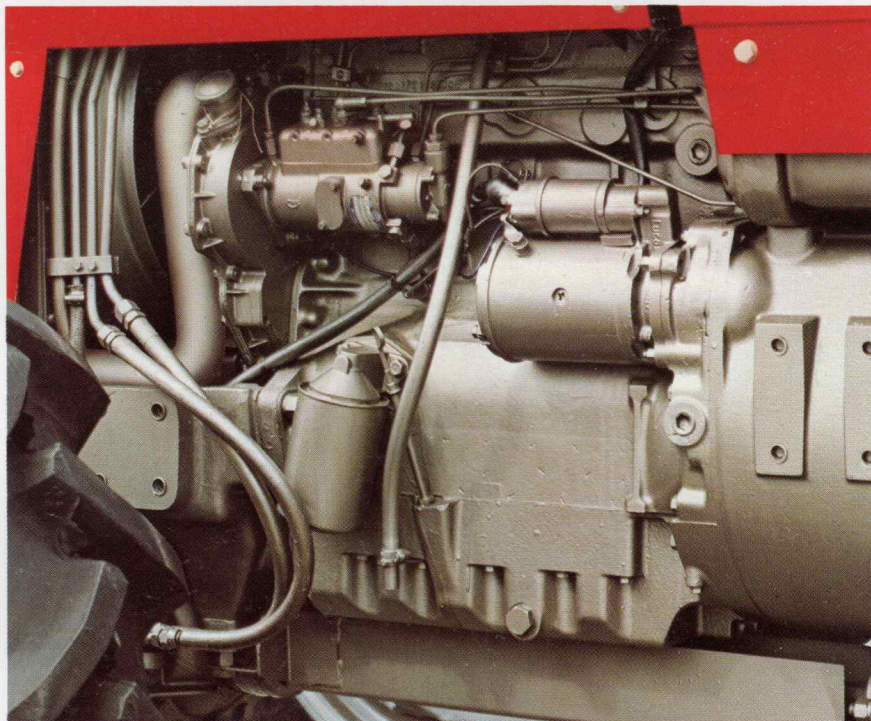
Oil and air filters, grease fittings and external ports are positioned so they're easy to reach.

When all is said and done, having Perkins power up front means peace of mind. And that's worth a lot any day.

## Choice of 3 diesel engines

MODEL	MF 294	MF 274	MF 254
HORSEPOWER	67*	55*	42*
DISPLACEMENT	248 in. <sup>3</sup> (4.06 L)	236 in. <sup>3</sup> (3.87 L)	152 in. <sup>3</sup> (2.49 L)
NO. OF CYLINDERS	4	4	3

\*Manufacturer's rated PTO hp.



The Perkins diesel engines in the MF 294, 274 and 254 have a worldwide reputation for outstanding fuel

efficiency and lugging ability. Plus, they're designed to be fast and easy to service so you save more time.

# Wide variety of speeds for added versatility

4-wheel drive tractors in this horsepower range are often called upon to perform a lot of different tasks around the farm.

Therefore, you need a transmission with plenty of speed ranges for the field, feedlot or road travel.

Massey-Ferguson answers this need with a rugged, syncromesh transmission with 12 forward and 4 reverse speeds. So whether it's plowing, planting or pulling a wagon, you've got the speed and power combinations you need to do it efficiently.

## Ground speeds\*

	Gear	MF 294		MF 274		MF 254	
		mi/h	km/h	mi/h	km/h	mi/h	km/h
FORWARD	1	1.0	1.6	1.1	1.8	1.0	1.6
	2	1.6	2.6	1.8	2.9	1.6	2.5
	3	2.0	3.3	2.3	3.7	2.1	3.3
	4	2.5	4.0	2.8	4.5	2.5	4.0
	5	3.0	4.8	3.4	5.4	3.0	4.8
	6	3.9	6.2	4.3	7.0	3.9	6.2
	7	5.0	8.0	5.6	9.0	5.0	8.0
	8	6.1	9.8	6.8	11.0	6.1	9.8
	9	7.4	11.8	8.3	13.3	7.4	11.9
	10	9.5	15.4	10.7	17.2	9.6	15.4
	11	12.3	19.8	13.9	22.2	12.4	19.9
	12	18.1	29.1	20.3	32.7	18.2	29.3
REV.	1	2.7	4.3	3.0	4.8	2.7	4.3
	2	4.1	6.7	4.6	7.4	4.2	6.6
	3	5.3	8.6	6.0	9.6	5.4	8.6
	4	7.9	12.7	8.8	14.1	7.9	12.6

\*MF 294 with 18.4 x 30 rear tires. MF 274 with 16.9 x 30 rear tires. MF 254 with 13.6 x 28 rear tires.

## Convenient "H" shift pattern

The various travel speeds are attained by selecting either first, second or third range and reverse in any one of four gears.

Simple "H" shift pattern makes for fast, effortless shifting to save time. Second range and reverse are positioned opposite each other in the pattern, making it easy to shift from forward to reverse. A real convenience when working with front-end loaders.

Standard dual 11 in. (279.4 mm) diameter clutch provides long life and efficient power transfer to the transmission and PTO.

## Dual PTO shafts

The MF 294, 274 and 254 feature two rear PTO shafts for greater versatility. One operates independently at 540 rpm, or at ground speed. It's ideal for operating a wide variety of implements.

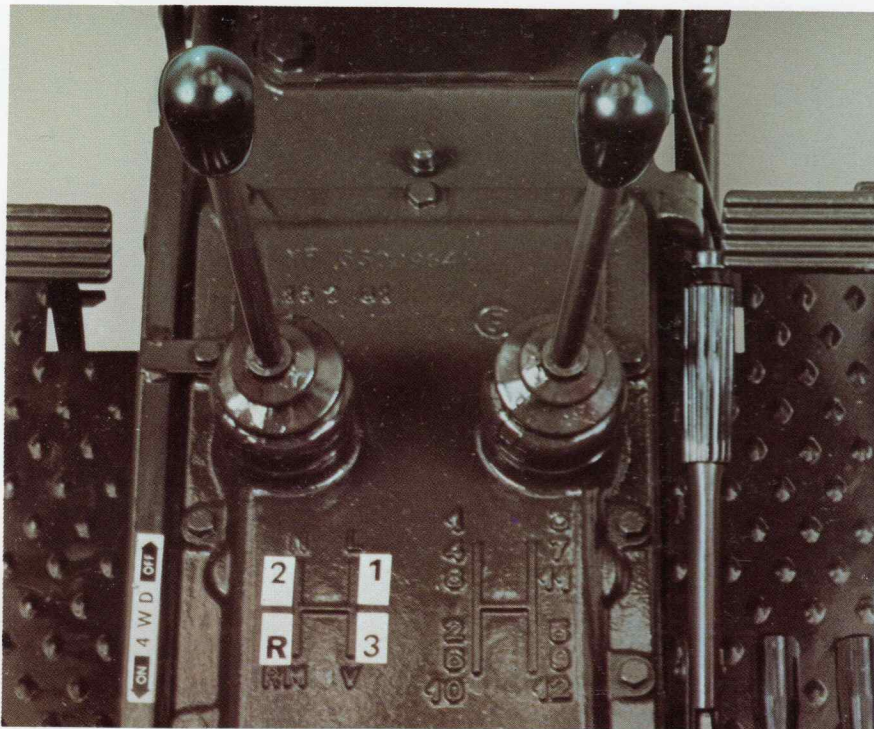
The other shaft runs directly off the engine to drive front-end loader pumps and other auxiliary equipment. The shafts can be operated simultaneously for maximum use of your tractor.

Both PTO shafts can be engaged by levers located within easy reach from the driver's seat.

## Standard differential lock

Handy differential lock on the rear axle can be engaged quickly by a foot pedal. Keeps you moving through mud and tough soils for a full day's work.

Dual dry disk brakes assure quick stops, smooth turns and money-saving reliability.



"H" pattern for both transmission levers makes shifting fast and easy. Reverse and second range are

positioned opposite each other, allowing you to quickly change directions. Great for front-end loader work.

# Extra hydraulic muscle for heavy implements and front-end loads

In addition to all the advantages these new MF 4-wheel drive tractors have to offer, they can also deliver the kind of hydraulic muscle you need to handle heavy implements and front-end loads.

## Big lift capacity

Maximum 3-point lift capacity is 3670 lbs.\* (1664.7 kg) on all three models. Lets you easily lift heavy implements and other loads. Hydraulic capacity is 9.4 gpm (35.6 L/min) on the MF 294 and 274; 9.2 gpm (34.8 L/min) on the MF 254 to eliminate fading and slow response. And that can mean a lot when you've got lots to do and little time to do it in.

Hydraulic lift pumps are engine-mounted and feature a washable strainer and magnetic plug for fast, easy maintenance.

## Draft and position control

Draft and position control are standard. This improves both traction and fuel efficiency.

Category II, 3-point linkage is standard on the MF 294 and 274; category I, 3-point linkage is standard on the MF 254.

Sensitivity and automatic lowering rate adjustments provide precise control of mounted implements. Screw-type top link and adjustable hand-crank on right-hand lift rod let you quickly level implements. Assures

thorough, uniform tillage during seedbed preparation.

## Dual auxiliary hydraulics

Dual spool auxiliary valves are standard. Gives you the extra versatility you need to operate implements and attachments that require additional cylinders.

Push-to-couple hydraulic couplers take the work out of hooking-up hoses. Couplers are conveniently located behind the operator's seat.

These new MF 4-wheel drives give you the kind of hydraulic capabilities usually left to larger tractors.

\*Manufacturer's estimate at 24 in. (609.6 mm) beyond ball ends.



Push-to-couple hydraulic couplers save time and effort when hooking-up. Standard dual spool auxiliary valves allow you to operate additional remote cylinders. Couplers are conveniently located for easy access.

# Comfort features fight fatigue to keep you alert

Anyone that's ever spent time on a tractor knows that a comfortable, alert operator is a whole lot more productive than one who's fatigued.

So it just makes good economic sense to own tractors that are as comfortable to operate as possible, whether you use them a lot or a little.

## Spring-suspension seat

The wide, deep-cushioned spring-suspension seat on these new MF tractors is fully adjustable to your height and weight. Smooths out the roughest fields and feedlots, and allows you to change positions for more comfort on long days.

Seat backrest provides support to reduce back stress and strain. No doubt about it, a good seat is an inexpensive way to boost productivity and feel good at the same time.

## Convenient footboards

Getting into the seat has been made easy by wide, clean footboards and handy step. You can get on or off these tractors quickly from either side.

Gearshift levers and other controls have been positioned so they're out of the way, creating a nice open area in front of the seat. This further improves accessibility and gives you more leg room for additional comfort.

Fully-instrumented dashboard accurately monitors tractor functions. Gauges are strategically placed so you can read them at a glance. And there's a full array of lights...including two head lamps, one rear lamp, fender-mounted flashers, turn signals and brake lights.

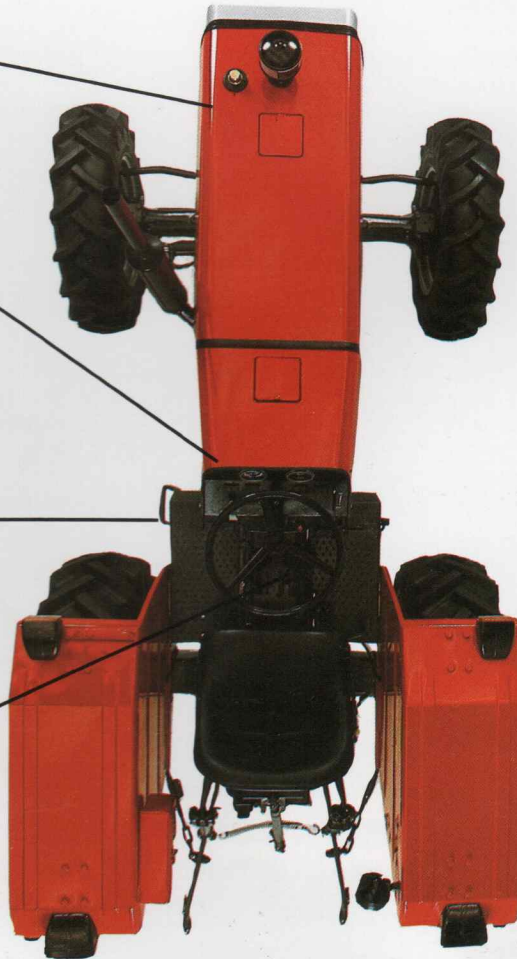
There's everything you need on the new MF 294, 274 and 254 to stay comfortable and relaxed so you can devote your full attention to your work. And that means you not only get more done...but you do a better job at the same time.

Side panels and one-piece hood can be removed in minutes for quick access to the engine and related components.

Instrument panel contains a full compliment of gauges and warning lights. Lets you monitor tractor functions at a glance.

Handy step and footboards make it easy to get on or off these tractors from either side.

Gearshift levers and other controls are positioned so they're easy to reach, yet leave an open area in front of the seat for extra leg room.



Front grille comes off in seconds to speed servicing of the oil bath air cleaner and battery. Easily removable hood and side panels provide quick access to the engine.



Spring-suspension seat is deeply cushioned and has a full-width backrest for maximum comfort. Adjusts to operator height and weight to keep you relaxed, alert and fully productive.

# Specifications: MF 294, 274, 254

## MF 294

### Horsepower

Manufacturer's rated PTO horsepower:  
67 @ 2100 rpm.

### Engine

Type: Perkins A4.248 diesel.  
Cylinders: 4.  
Displacement: 248 in.<sup>3</sup>(4.06 L).  
Compression ratio: 16:1.

### Transmission

Syncromesh with 12 forward and 4 reverse speeds.

### Clutch

Dual dry plate. 11 in.(279.40 mm) diameter.

### Power take off

Type: Upper shaft — direct engine drive.  
Lower shaft — fully independent 540 rpm or ground speed.

### Front wheel drive

Malleable cast iron with outboard planetary.

### Front tread width

61.5 in.(1562.1 mm).

### Rear tread range

61 to 81 in.(1549.4 to 2057.4 mm).

### Ground clearance front axle

16.5 in.(419.10 mm).

### Differential lock

Pedal operated.

### Steering

Hydrostatic power.

### Brakes

6.50 in.(165.10 mm) dual disc dry.  
Mechanically actuated.

### Hydraulics

Type: Engine mounted gear pump.  
Linkage: Category II with draft and position control.  
Linkage lift capacity: 3670 lbs.\* (1664.7 kg).  
Hydraulic capacity: 9.4 gpm(35.6 L/min).  
Remote: Dual spool valve.

### Turning radius

15.00 ft.(4.57 m).\*\*

### Tires

Front: 12.4 x 24.  
Rear: 18.4 x 30.

## MF 274

### Horsepower

Manufacturer's rated PTO horsepower:  
55 @ 2200 rpm.

### Engine

Type: Perkins A4.236 diesel.  
Cylinders: 4.  
Displacement: 236 in.<sup>3</sup>(3.87 L).  
Compression ratio: 16:1.

### Transmission

Syncromesh with 12 forward and 4 reverse speeds.

### Clutch

Dual dry plate. 11 in.(279.40 mm) diameter.

### Power take off

Type: Upper shaft — direct engine drive.  
Lower shaft — fully independent 540 rpm or ground speed.

### Front wheel drive

Malleable cast iron with outboard planetary.

### Front tread width

59.5 in.(1511.3 mm).

### Rear tread range

59 to 79 in.(1498.6 to 2006.6 mm).

### Ground clearance front axle

14 in.(355.60 mm).

### Differential lock

Pedal operated.

### Steering

Hydrostatic power.

### Brakes

6.50 in.(165.10 mm) dual disc dry.  
Mechanically actuated.

### Hydraulics

Type: Engine mounted gear pump.  
Linkage: Category II with draft and position control.  
Linkage lift capacity: 3670 lbs.\* (1664.7 kg).  
Hydraulic capacity: 9.4 gpm(35.6 L/min).  
Remote: Dual spool valve.

### Turning radius

15.00 ft.(4.57 m).\*\*

### Tires

Front: 11.2 x 24.  
Rear: 16.9 x 30.

## MF 254

### Horsepower

Manufacturer's rated PTO horsepower:  
42 @ 2250 rpm.

### Engine

Type: Perkins A3.152 S diesel.  
Cylinders: 3.  
Displacement: 152 in.<sup>3</sup>(2.49 L).  
Compression ratio: 17.4:1.

### Transmission

Syncromesh with 12 forward and 4 reverse speeds.

### Clutch

Dual dry plate. 11 in.(279.40 mm) diameter.

### Power take off

Type: Upper shaft — direct engine drive.  
Lower shaft — fully independent 540 rpm or ground speed.

### Front wheel drive

Malleable cast iron with outboard planetary.

### Front tread width

59.5 in.(1511.3 mm).

### Rear tread range

55 to 75 in.(1397.0 to 1905.0 mm).

### Ground clearance front axle

12 in.(304.80 mm).

### Differential lock

Pedal operated.

### Steering

Hydrostatic power.

### Brakes

6.50 in.(165.10 mm) dual disc dry.  
Mechanically actuated.

### Hydraulics

Type: Engine mounted gear pump.  
Linkage: Category I with draft and position control.  
Linkage lift capacity: 3670 lbs.\* (1664.7 kg).  
Hydraulic capacity: 9.2 gpm(34.8 L/min).  
Remote: Dual spool valve.

### Turning radius

15.00 ft.(4.57 m).\*\*

### Tires

Front: 9.50 x 20.  
Rear: 13.6 x 28.

\*Manufacturer's estimate at 24 in.(609.6 mm) beyond ball ends.

\*\*Manufacturer's estimate with brakes.  
Massey-Ferguson reserves the right to change design and specifications of its products without notice or obligation.



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