


180-240 PTO hp Tractors

MF 8400 Series



MASSEY FERGUSON



For more than a century,
the most important thing
we've built is **TRUST**

Behind every Massey Ferguson® emblem is an unbeatable combination of industry-leading technology, proven reliability and equipment solutions that make you more productive and more profitable. It also represents one of the most complete lines of agricultural equipment in the industry.

Massey Ferguson has been designing, engineering, and building equipment you can rely on and trust— generation after generation. Our commitment to your satisfaction remains our top priority with flexible financing, quality parts, and a Massey Ferguson dealer who's beside you every step of the way. It all adds up to a legacy of leadership that has kept more Massey Ferguson tractors on the job worldwide than any other brand.

No matter what job you're taking on—around the farm, on the job site or right in your own back yard, there's a Massey Ferguson machine and a dedicated dealer to help you do it better and faster, all day...every day.

Massey Ferguson—what to depend on when everything depends on you.



MF 8400 Series tractors: the **NEW** definition of **EFFICIENCY**

With the 8400 Series tractors, Massey Ferguson has set a new standard for your high horsepower row-crop tractor.

These tractors deliver the ultimate in efficiency, versatility, comfort and ease of operation. MF 8400 Series tractors offer you a choice of models from 180 to 240 PTO horsepower – each one combining the innovative technology and rugged reliability that has made Massey Ferguson one of the most respected names in the business for more than a century.

Choose the MF 8400 Series tractor that best meets your specific requirements and go to work with a trusted leader in the field today.

Powerful SisuDiesel™ engines.

SisuDiesel™ 6-cylinder engines (7.4L and 8.4L) use Electronic Engine Management to deliver impressive torque. In addition, the engines are Tier III compliant for maximum fuel economy and minimum emissions.

***Dyna-VT™* transmission.**

The industry leading technology of the *Dyna-VT™* is standard with every 8400 Series tractor. Maximum power and infinite speeds at your fingertips provide unrivaled operational efficiency in the field and on the road.

Quietly leading the industry.

Every detail in your working environment is designed to give you more comfort, convenience and control in a cab that's one of the quietest in the industry.

Advanced hydraulics to boost productivity.

The closed center system is simple to operate and hard to beat for exceptional lifting power and precise control.

Electronic 3-point hitch.

A category III 3-point hitch with Electronic Lift Control and heavy duty, telescopic, sway links give you optimum versatility and control when working with mounted implements.



- ❶ Quietest cab in the industry (70 dba)
- ❷ Tilt and telescopic steering column
- ❸ External defrosting mirrors
- ❹ Handrail and step work lights
- ❺ Four front work lights for more visibility
- ❻ Electro-hydraulic differential for smooth engagement
- ❼ Rear wet disk brakes for smooth, progressive braking
- ❽ Power Front Axle (PFA) for increased pulling power and traction



Take control with **POWERFUL** SisuDiesel™ engines

Massey Ferguson 8400 Series tractors feature the SisuDiesel™ 6-cylinder engine, which is both turbocharged and inter-cooled. Built as a single-piece, cast-iron block, the engine acts as a major load-bearing portion of the tractor, reducing the need for an oversized side frame and thus helping to provide a tighter turning radius. Other benefits include reduced emissions, decreased noise level and more control with Electronic Engine Management.

Electronic Engine Management (EEM)

EEM not only provides a faster response to changing engine loads, but the system also adds to the functionality of the tractor. This enables the operator to throttle to a pre-determined engine speed at the push of a button. The EEM system can be precisely adjusted in increments of 10 rpm.

EEM allows continuous adjustment of the amount and timing of fuel injected, in relation to engine speed and load. The result is more power, lower emissions and improved fuel economy.

Engines are also equipped with a viscous fan drive to provide ample cooling power to the radiator. On delivery, the radiator is pre-serviced with an anti-freeze mixture that operates to a temperature of -30 degrees F. The cooling system also contains two separate oil coolers: one for transmission oil and the other for the auxiliary hydraulic oil.

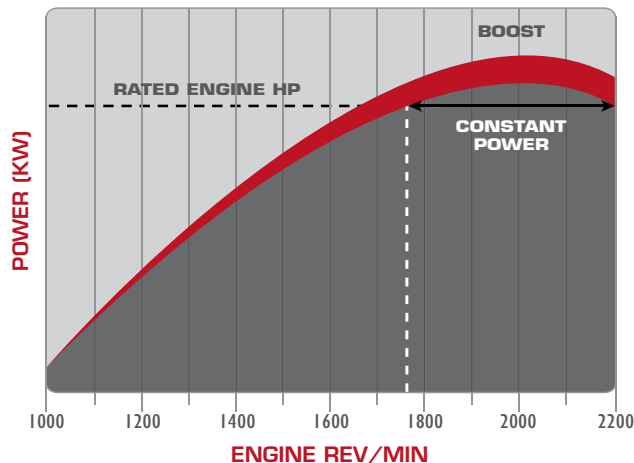
Air intake and exhaust enhancements

In order to make the 8400 Series the quietest cab in the industry, the exhaust has been routed to a vertical position on the right-hand cab A-post. This enables the tractor to maintain an interior sound level of 70 decibels and also reduces vibration. The air-intake system also provides major benefits. In order to increase forward visibility and decrease the turning radius, some

components of the intake system have been relocated. Count on Massey Ferguson and SisuDiesel™ engines to deliver the power, performance and reliability you need to do the job – all day, every day.



Two EEM switches located on the right hand console allow the operator to set two custom engine speeds.





MF 8450 (180 PTO hp) and MF 8460 (200 PTO hp) feature 74 ETA 7.4L SisuDiesel™ engines.

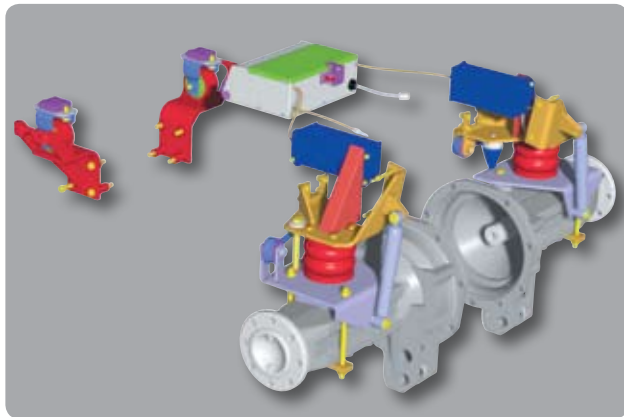


MF 8470 (220 PTO hp) and MF 8480 (240 PTO hp) feature 84 ETA 8.4L SisuDiesel™ engines.

Step up to more **COMFORT** and **QUIET**

Blazing sun, biting insects, driving rain, blinding snow... you have enough challenges to contend with on the outside of your tractor cab. On the inside, you deserve an ideal work environment every day, every season. That's what you get in the cab of a MF 8400 Series tractor. Every detail is designed to maximize comfort, convenience and control all through the workday. Plus, you'll enjoy the quietest cab in the industry with a rating of just 70 decibels.

All major tractor and implement controls are sensibly located in the right-hand console. These include hydraulic remote levers, hand throttle, electronic 3-point hitch and PTO controls, PTO speed selection, 12-volt accessory plug-ins and pre-drilled monitor mounting locations.



Massey Ferguson tractors feature an optional dual-stage pneumatic cab suspension system. Now, at the touch of a button, you can adjust the suspension to suit changing conditions.

The cab roof gives you plenty of headroom plus a console with easy access to the high-capacity, high-efficiency heating and air conditioning system and optional premium sound system. Their compact design, along with placement of the inside rearview mirror on the overhead console, maximizes your forward visibility.

When you travel across the roughest field or down a rugged country road, the optional pneumatic cab suspension system is unmatched by any other in the industry for smooth transport and a comfortable ride.



Inside the cab of every 8400 Series tractor, you'll discover the ultimate in ergonomic design, comfort, convenience and visibility. Every detail is designed to enhance your comfort and maximize your control all through the workday.





MAXIMUM power... INFINITE speeds...TOTAL control

Dyna-VT™ boasts smooth, infinitely variable speed control that offers versatility and precision through innovative technology, sophisticated features, and easy-to-use, straightforward controls.

Innovative Smooth operation

Dyna-VT features two infinitely variable speed ranges (0-17mph) for field applications and (0-25mph, with 32mph option) for transport. Simply move the left-hand control lever into 'forward' or 'reverse' then push the armrest-mounted *Dyna-VT* lever. Acceleration is based on the position of the lever, so there's no break in traction or power...no shifting required...just infinite speed control from 'supercreep' to high transport speed. Once you've reached your desired speed, simply release the lever.

If you prefer left-hand speed control, the Power Control lever increases your speed the longer the lever is held in the 'forward' or 'reverse' position. The Power Control lever also offers convenient, left hand control of forward/reverse shuttle and de-clutching.

Pre-set speed control

Forward or reverse speed can be pre-set within each of two ranges. Simply turn the 'SV1' or 'SV2' dial to your preferred speed and it appears on the console digital display. Press the armrest mounted button and your selected speed will be maintained automatically and stored at engine shutdown.



Choose your operating mode

'Lever mode' is ideal for most conditions, where ground speed control is achieved by the Power Control or *Dyna-VT* lever. For specific applications, simply select 'Pedal mode' for three operating options using the accelerator pedal (or hand throttle) to adjust the transmission ratio:

Power mode – for heavy-duty applications, this option features 'automatic transmission' characteristics with maximum speed at maximum engine rpm, so full power is available.

Economy mode – for light-duty applications, the engine operates at a maximum of 1800 rpm, for improved fuel efficiency and economy.

Forager mode – ideal for forage and baling applications, this option maintains a selected engine speed and power. When large volume crop is encountered, lift the pedal while material is chopped or baled and ground speed is adjusted, while engine speed and power are maintained. Press the pedal again and return to normal working speed.

Engine 'Supervisor'

The engine Supervisor automatically reacts when engine speed falls under load. By adjusting the transmission ratio, the Supervisor maintains the relationship between engine load and forward speed. Simply turn the rotary control to maximize engine and transmission characteristics for PTO, transport or draft conditions. Fine adjustments can also be made on-the-go with immediate response for optimizing performance and fuel economy.

The Dyna-VT lever is located in the adjustable armrest for quick access and easy control.



SV1/SV2 pre-set adjustment speed, Dyna-VT operating modes, and range selection are accessed in one easy-to-access location.



The Power Control lever offers convenient left-hand speed control.



The engine Supervisor works automatically in the background to maximize productivity.

Sometimes, a lot of **HIGH PRESSURE** is good for you

Massey Ferguson 8400 Series tractors feature a closed center, pressure and flow compensated hydraulic system with a maximum flow of 39 gallons per minute (GPM). The axial piston pump is mounted externally on the transmission and driven through a collecting shaft. This pump supplies high-pressure oil (2900-psi) for remotes and 3-point hitch. A second pump mounted in tandem with the auxiliary hydraulic pump supplies oil for other functions such as steering, brakes and oil cooler. A third pump supplies oil for transmission operation and lubrication. A key benefit of this three-pump system is that the auxiliary hydraulics and the transmission oil never mix. Also, the sump for the transmission and the sump for the remote hydraulics are located at different areas of the tractor. This reduces the potential for contamination in the transmission.

Ergonomic design of lever placement puts hydraulic controls in a convenient, easy-to-reach location to help reduce operator fatigue and increase efficiency.

Four hydraulic remotes, power beyond circuit and a load-sensing line are standard on all MF 8400 Series tractors. The electronic remotes are simple spring return to neutral valves and do not incorporate internal detents, float or manual flow adjustments. Detent locks are standard and allow the valves to be held open at full flow.

Remote Valve Management System (RMS)

The Remote Valve Management System (RMS) is standard on MF 8400 Series tractors. The system is comprised of a joystick mounted to the armrest that controls two electro-hydraulic proportional spool valves at the rear of the tractor. The RMS system also incorporates a third

function switch with allows the activation of a solenoid valve for functions such as the grapple fork on a front-end loader. Then, the RMS system can be used in place of a loader joystick, eliminating the need to purchase extra loader equipment. To activate the third function switch, simply add a relay to the fuse panel. All wiring harnesses are already included in the tractor.

In addition, the RMS system offers a memory feature which allows you to set proportional flow rates. The function memorizes the flow rate of the output and input of each spool valve controlling the expansion/retraction of the hydraulic cylinders. For example, the RMS system can be used to control the rate of drop on a lifted implement, thus reducing potential damage to the axle and hydraulic ram mounts.

Electronic Lift Control (ELC)

Tilling, planting, grading and a host of other tasks go easier and faster with MF 8400 Series tractors, thanks to the category III 3-point hitch with Electronic Lift Control (ELC). The ELC is easy to use – and adjusts for changing conditions – with controls located on the right-hand console and a rocker switch on the right armrest.

When it is time for transport over rough ground or roadways, simply use the transport lock to secure an implement in the “up” position and let the hydraulic rams absorb shocks.

540/1000 & Economy PTO

All MF 8400 Series tractors feature dual speed (540/1000 rpm), independent Power Take Off (PTO). The PTO is driven by a live shaft from the engine. A wet, multi-disc

clutch engages and disengages the PTO output shaft. A safety switch is designed into the engagement system to prevent the engine from being started if the PTO is in the engaged position. In addition, there is a convenient PTO cut-off switch located on the outside of the tractor. This allows safe, quick access to disengage the PTO from the ground without having to climb back in the cab.

The tractor can also be equipped with an optional 540 Economy PTO. This allows a 23% reduction in engine speed (from 2000 to 1550 rpm) for equipment that doesn't demand maximum horsepower. The result: less fuel consumption, noise and vibration.

FIG 1: ERGONOMIC LEVER LAYOUT

The right-side console layout features an ergonomic design that places hydraulic controls in a convenient location for easy operator access.

FIG 2: ELECTRONIC LIFT CONTROL

Electronic Lift Control (ELC) allows quick adjustment of height limit, draft sensing, and rate of drop. For added convenience, controls are located on both the right armrest, and on the rear of the right console. This makes the 3-point hitch easy to use in operations such as tilling, planting, and grading.

FIG 3: REMOTES

MF 8400 Series tractors feature standard float and detent locks, in addition to four standard electronically controlled remotes, a power beyond circuit, and a load sensing line. An optional fifth hydraulic remote is also available.



FIG 1



FIG 2



FIG 3

Get ahead in your field with **LEADING-EDGE** tractor control systems

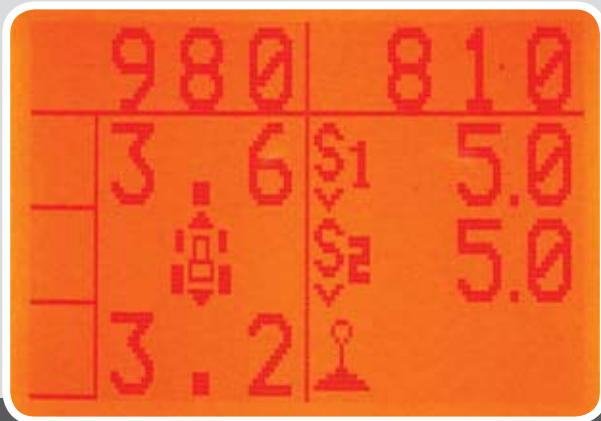
Innovative technology has been a hallmark of Massey Ferguson products for more than a century and MF 8400 Series tractors continue this vital tradition. These tractors offer state-of-the-art tools that are used to enhance the efficiency of your tractor and the productivity of your fields.

Dot Matrix

All MF 8400 Series tractors are equipped with a Dot Matrix Display Screen on the left-hand side of the dash. The screen provides features which control numerous tractor functions.

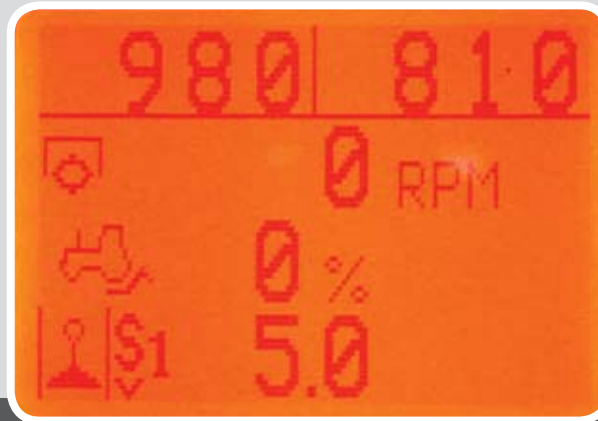


Main Screen



The main screen on the Dot Matrix system provides the tractor forward/reverse take-off speeds, the pre-set cruise controls (SV1, SV2), and the pre-set engine speeds.

Work Screen



The work screen provides immediate data of ground speed, PTO speed and wheel slippage. This eliminates the need to toggle through various screens during operation.

Hydraulic Time and Flow Control



The Dot Matrix display screen allows you to adjust precise hydraulic flow and set time detents for hydraulic remotes controlled by the RMS joystick.

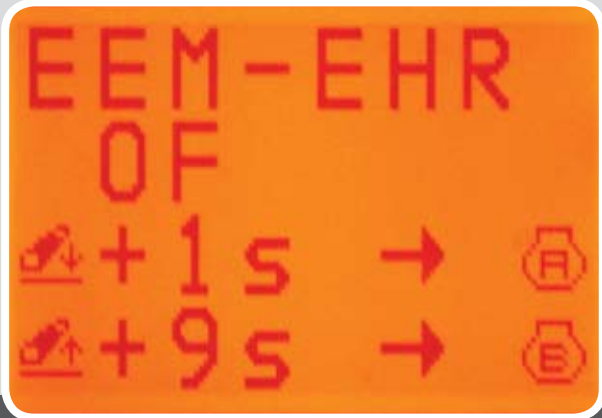
Navigation Pad



Controls for the Dot Matrix screen are located on the right-hand steering console. A blister-pad allows the operator to scroll through the various screens and adjust tractor functions. Radar is also standard equipment on all MF 8400 Series tractors.



Mini-Headland Management



The Mini-Headland Management system allows the operator to coordinate automatic changes in engine speed with the position of the rear linkage.

Shuttle Modulation



The shuttle modulation screen allows the operator to adjust the sensitivity of the forward/reverse shuttle of the transmission.

Wheel Slip Monitor



The Wheel Slip monitor allows operators to set the amount of slippage the tractor will incur, prior to making adjustments in the 3-point linkage.

DISCOVER THE finer points of A MASSEY FERGUSON

Datatronics III®

Upgraded Datatronics III software is located within the Console I, and is a valuable option on all MF 8400 Series tractors. The Console I offers a user-friendly interface with color screens that are easy to read, and provide numerous precise control services at your fingertips.

Tractor Performance Monitoring

- Measures fuel consumption
- Controls slip
- Tracks time on the job

Specific Hydraulic Control Services

- Time detent and flow control over all electro-hydraulic remotes
- Headland management system, which stores a time sequence of instructions to be repeated at headlands
- Memory functions which allow up to six sets of tractor settings to be stored on the console

Headland Management System

The headland management system allows you to record up to 35 tractor functions at the headland, and, at the push of a button, replay those functions across the entire field or throughout your operation.

Recording can be performed in two ways:

- Manual Mode: The operator selects the sequence required using the Console and rotary knob. Each action is displayed by an icon on the screen.
- Automatic Mode: Using the record mode, the operator's actions are automatically recorded.

No More Extra Monitors

Console I is designed to monitor the performance of both the tractor and trailing implements through a common ISOBUS (International Standardization Organization) system. As a result, Massey Ferguson now offers a single terminal for control of all ISOBUS 11783-compliant implements, including balers, planters, sprayers, etc., saving you time, money, extra monitor installations...and the annoying wiring and cab clutter that goes with them.

Auto-Guide™ Puts Accuracy At Your Fingertips

But if you prefer to put it in monetary terms, few options have the potential to return the investment as quickly as the MF Auto-Guide satellite navigation system. This easy-to-learn, easy-to-use system offers unlimited benefits, including less fatigue and exhaustion; increased operation speeds — particularly at night or in low-visibility conditions; fewer skips and overlaps; less seed and chemical waste, and greater productivity.

Models ordered “Auto-Guide ready” come from the factory with all necessary wiring harnesses and brackets pre-installed. Simply mount the TopDock on the cab roof and plug it in. You don't even need a separate monitor, since Auto-Guide operates through the Console I via ISOBUS technology. That also means that Auto-Guide can be activated through the Headland Management system, allowing total “one-button farming.”



Main Menu

The main menu screen allows the operator to scroll between the different functions of the Datatronics III Software.



Headland Menu

The Headland Menu allows the operator to store up to 35 different functions which can be repeated with a push of a button on the right-hand armrest.



Valves Menu

The valves menu allows the operator the ability to adjust the time and flow of all hydraulic valves. This menu also enables the operator to engage or disengage the float position on all hydraulic valves.



Memories Menu

The Memories Menu allows the operator to keep track of up to six different operations. The operator can personalize the operation name and also the headland sequence for each of the 6 memories.



21.5' Turning Radius @ 60"
Tire Size: 14.9R34

AGCO Software FIELD MANAGEMENT

Attention to detail and accurate and efficient record keeping are essential requirements of any successful business; and farming is no exception. That's why data recorded using the Datatronics III memory function can be displayed on the Console I screen or transferred via memory card to another tractor or the office computer.

As a result, this award-winning system has the potential to improve productivity via record keeping, data analysis and/or mapping. As standard equipment, the GTA100 Communicator package allows machine use and job data to be viewed, managed and exported to farm management programs. The information can also be integrated with other software options, including GTA200 Record Keeping, GTA 300 Mapping and GTA400 Precision Farming.

The included software CD also includes an "SD Card Tool," which allows tractor settings to be programmed ahead of time on any PC computer. Pre-program such variables as hydraulic flows, headland sequences or transmission and engine presets from the comfort and convenience of your office. Then transfer and load the setting to a Console I via any standard SD card.





TRACTOR MODEL	8450	8460	8470	8480
PERFORMANCE				
*PTO HP @ Rated Engine RPM	180 @ 2,200	200 @ 2,200	220 @ 2,200	240 @ 2,200
ISO Engine HP @ Rated Engine RPM	215 @ 2,200	235 @ 2,200	260 @ 2,200	290 @ 2,200
Fuel Tank Capacity Gallon (L)	158.5 (600)	158.5 (600)	158.5 (600)	158.5 (600)
ENGINE				
Make	SISUDiesel™	SISUDiesel™	SISUDiesel™	SISUDiesel™
Number of Cylinders / Aspiration	6/ Wastegate	6/ Wastegate	6/ Wastegate	6/ Wastegate
Type of Cooling / Fuel	Liquid/ Diesel	Liquid/ Diesel	Liquid/ Diesel	Liquid/ Diesel
Displacement Liters (CID)	452 (7.4)	452 (7.4)	513 (8.4)	513 (8.4)
Starting Aid	Thermostart	Thermostart	Thermostart	Thermostart
TRANSMISSION				
Type	<i>Dyna-VT</i>	<i>Dyna-VT</i>	<i>Dyna-VT</i>	<i>Dyna-VT</i>
Ranges	2	2	2	2
Speeds Forward	infinite	infinite	infinite	infinite
Cruise Control Speeds	2 per Range	2 per Range	2 per Range	2 per Range
BRAKES AND FINAL DRIVES				
Type of Final Drives	Inboard Planetary	Inboard Planetary	Inboard Planetary	Inboard Planetary
Type of Brakes	Wet Disc	Wet Disc	Wet Disc	Wet Disc
PTO				
Speeds - Standard	540/1,000	540/1,000	540/1,000	540/1,000
Engagement	Electro Hydraulic	Electro Hydraulic	Electro Hydraulic	Electro Hydraulic
Economy (540E/1,000)	Optional	Optional	Optional	Optional
4WD FRONT AXLE				
Engagement	Electro Hydraulic	Electro Hydraulic	Electro Hydraulic	Electro Hydraulic
Maximum Steering Angle	55 Degrees	55 Degrees	55 Degrees	55 Degrees
HYDRAULICS				
System Type	Closed Center PFC	Closed Center PFC	Closed Center PFC	Closed Center PFC
Total Flow -Standard (gal.)	39	39	39	39
Remotes - Standard / Optional	4/5	4/5	4/5	4/5
THREE POINT HITCH				
Category	III	III	III	III
Stabilizers	Sway Block	Sway Block	Sway Block	Sway Block
Lift Capacity @ 24" lbs (kg)	15,600 (7,078)	15,600 (7,078)	15,600 (7,078)	15,600 (7,078)
OPERATOR AREA				
Cab Glass Area (ft²)	61	61	61	61
Noise Level dB(A)	70	70	70	70
Suspended Cab (Optional)	Dual Stage Pneumatic	Dual Stage Pneumatic	Dual Stage Pneumatic	Dual Stage Pneumatic
Steering Wheel	Tilt & Telescopic	Tilt & Telescopic	Tilt & Telescopic	Tilt & Telescopic
Operator Seat	Air	Air	Air	Air
Transmission Control(s)	Right Console/Arm Rest	Right Console/Arm Rest	Right Console/Arm Rest	Right Console/Arm Rest
Forward/Reverse Shuttle Location	Left Side	Left Side	Left Side	Left Side
Cab Doors Standard	2	2	2	2
DIMENSIONS & WEIGHT*				
Wheelbase in (mm)	121 (3,075)	121 (3,075)	121 (3,075)	121 (3,075)
Overall Length in (mm)	206 (5,240)	206 (5,240)	206 (5,240)	206 (5,240)
Maximum Height Over Cab	122 (3,100)	122 (3,100)	123.6 (3,140)	123.6 (3,140)
Approx. Shipping Weight lbs (kg)	19,136 (8,680)	19,136 (8,680)	19,951 (9,050)	19,951 (9,050)

*All dimensions measured with 18.4R46 rear tires and 16.9R30 front tires.

AGCO Corporation has a corporate policy of continuous product improvement and development; therefore, specifications are subject to change without any advance notice. AGCO Corporation is not responsible for differences between the specifications or illustrations contained in this publication and the actual equipment.

YOUR SATISFACTION IS THE MOST IMPORTANT PART OF A MASSEY FERGUSON® 8400 SERIES TRACTOR.



QUALITY PARTS

Massey Ferguson branded parts are manufactured to meet the same high standards of dependability as every MF 8400 Series tractor and implement. Continued and consistent use of these quality parts will help keep your tractor running like new.



MASSEY FERGUSON®

EXCEPTIONAL SERVICE

Count on your MF Dealer for prompt service from qualified technicians who know your MF 8400 Series tractor inside and out. What's more, your MF Dealer is determined to earn your business with extra effort at every turn.



LOW-RATE, FLEXIBLE FINANCING

Your MF Dealer and AGCO Finance offer attractive financing to make sure a new MF 8400 Series tractor will fit your operating budget. Extremely competitive rates and terms make it easy to buy, lease or rent.



MASSEY FERGUSON®