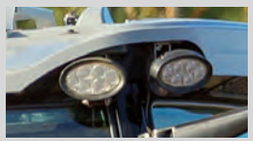
MASSEY FERGUSON

300-370 HP

# MF 8700 S


FROM MASSEY FERGUSON

# MF 8700 S – Bodyscan the new touch of efficiency

All new features on the new MF 8700 S

Across the board, we have injected new thinking into the design and features of the MF 8700 S, to improve power, comfort, usability, efficiency and reliability.

**Ultimate comfort and safety for more productive working day**

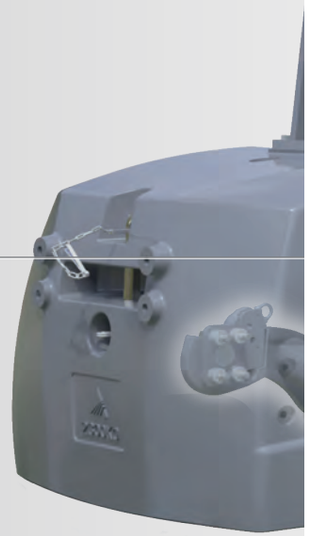
- Panorama Cab with plenty of room available, quietness and 360° visibility
- Ergonomic and easy to use controls
- New working light package with 18 LED lights extends the working day into night
- New optional air braking systems for the tractor and trailers

**Ability to work faster with most demanding implements**

- Superb rear linkage with extreme 12,000 kg lift capacity
- Up to 6 spool valves on the rear, and 2 in the front
- Power beyond installation for the more complex implements

**More power efficiency brings more traction**

- Up to 370 hp - The most powerful tractors ever made by Massey Ferguson, designed for the ultimate in output, with low running costs
- CYCLAIR system designed to match the prodigious power output produced by industry leading 8.4 litre AGCO Power engines




**New Datatronic 5 terminal provides the latest user friendly Precision Farming Package**

- Datatronic 5, 9" touch screen terminal created to provide a more intuitive and precise farming experience
- New Auto-Guide™ solutions provide economy by reducing overlaps
- AgControl™ allows you to adjust the application rate on the go, whilst automatically minimising overlap, skips and wasted product
- TaskDoc™ creates and sends securely detailed records of jobs between field and office
- AgCommand® telemetry for fleet performance and usage management

**Efficient drive-lines bring higher productivity**

- Dyna-VT transmission with Engine Power Management to deliver more power when it is needed most
- Perfect engine/transmission combination provide maximum outputs

**Perfect tyre choice with more maximum traction and soil preservation**

2.15 metre rear wheel diameter for better traction, reduced soil compaction giving the maximized performance to the ground

Michelin AxioBib 2 tyres option puts more lugs in contact with the soil, creating 'mini tracks' that lengthen the footprint by 26%, distribute the weight more effectively and improve traction by up to 28%

# The smoothest power delivery, the ultimate in productivity

Dynamic performance whatever the application. Massey Ferguson's Dyna-VT transmission provides enhanced productivity in stepless precision.

**Dyna-VT Highlights:**

- 0.03 to 40 km/h or 50 km/h*
- 40 km/h super Eco or 50 km/h* Eco
- The choice of two speed ranges optimises torque for different applications
- Lever, pedal or automatic control
- C1/C2 cruise speeds
- 'Supervisor' maximises the output under varying loads
- Dynamic Tractor Management (DTM) maintains the set travel speed by automatically adjusting the power
- Active Stop
- Turbo clutch on/off
- Shuttle aggressiveness adjustment
- Pedal aggressiveness adjustment
- Switch between cruise speeds (C1 and C2)
- Brake pedal to neutral feature

**Multipad Joystick**

The Command Control armrest, and the Multipad joystick - standard on MF 8700 S tractors - are part of the package that makes these tractors, despite their power, so easy to control with precision. A multitude of functions can be controlled in the palm of your hand.


**Cruise Control and Supervisor**

MF 8700 S tractors are fitted with an engine speed 'Supervisor' which automatically reduces forward speed to maintain full engine power by maintaining engine speed, whatever the job in hand. In conjunction with the ability to store two speed settings, this means the tractor is always working at its optimum.

**Simple, multi-function Power Control**

The Power Control lever provides convenient three-in-one, straightforward operation. Operators can shuttle between forward/reverse, select neutral, leaving the right hand free to operate the rear linkage or implement hydraulics.

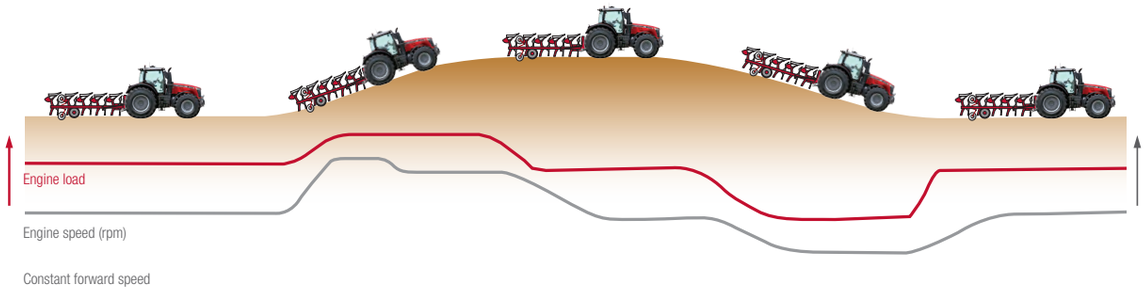
*depending on market legislation.

# MF 8700 S

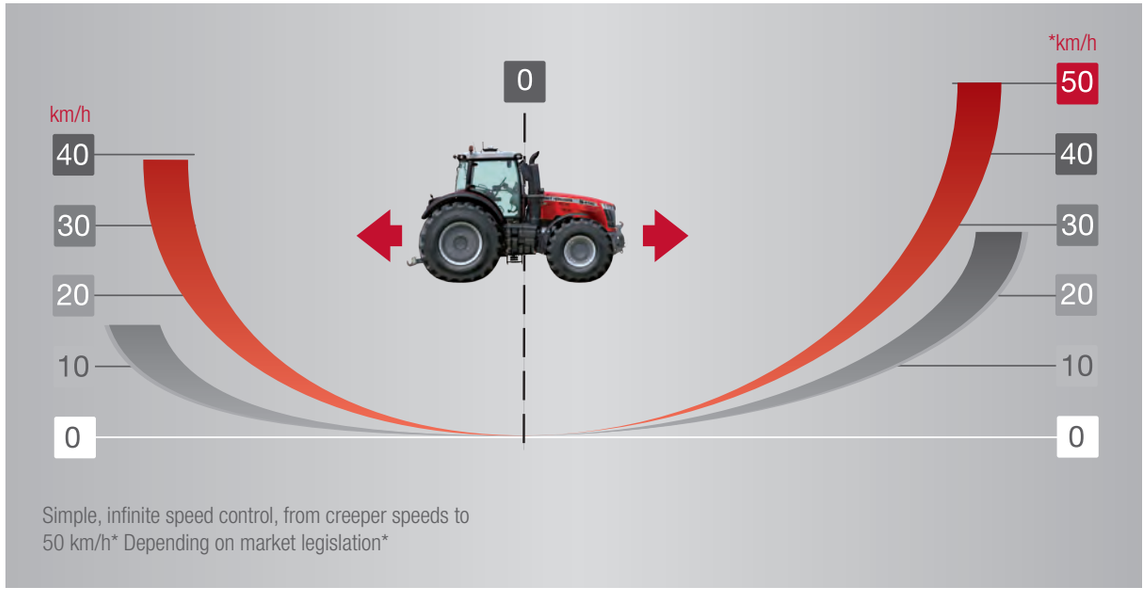
The original Dyna-VT transmission is a true testament to precision engineering; guaranteed productivity, complete operator comfort and optimum fuel efficiency at all times. Further, consistent enhancements such as Dynamic Tractor Management (DTM) make it the most intuitive transmission on the market.

**Stepless precision**
Dyna-VT is amazingly simple to operate and works extremely well in differing conditions. There's no shifting of gears, no jolts and no breaks in traction or power. The unique Power Control lever makes forward/reverse shuttling and speed change convenient and hassle-free.

**Dynamic Tractor Management**
When activated, Dynamic Tractor Management (DTM) works in conjunction with the Dyna-VT transmission, in either level or pedal mode, to automatically control engine speed according to the load on the tractor, maintaining the required forward speed whilst keeping rpm to the minimum necessary. It works from 1000-2100 rpm, with the operator able to set both a lower and an upper limit within the range. DTM can be activated with triggers such as PTO, Linkage or hydraulic activation. The result is smoother driving and excellent fuel efficiency.




Dynamic Tractor Management (DTM): As the load (red line) varies according to the conditions, the Dyna-VT will automatically adjust the engine speed (grey line) to maintain the forward speed whilst minimising fuel consumption and noise levels.




Simple, infinite speed control, from creeper speeds to 50 km/h* Depending on market legislation*

# For those who demand more:

You'll always find the usual necessities within our cabs but we always strive to push operator comfort and control to the next level. That's why the MF 8700 S comes with dramatic new features that will help to improve further your working day.

The MF 8700 S Series is dedicated to the more intense, large scale operator looking for more advanced features that will ensure cost effective benefits for their business.

**Standard features includes:**

- Command Control Armrest with MultiPad lever
- Power Control Shuttle
- "QuadLink" suspended front axle
- Automatic air conditioning
- OptiRide Plus semi-active cab suspension
- Super Deluxe Air Suspended Seat
- Mirrors with electric de-icing and adjustment
- Datatronic 5, 9" touch screen terminal
- Radar & slip control
- SpeedSteer
- Auto-Guide™ ready
- AgCommand® Telemetry system
- 4 electronic spool valve with joystick and fingertip control

**Specification options:**

- Integrated front linkage
- 2 additional rear remote valves
- Integrated front PTO
- 2 sets of hydraulic front couplers and free hydraulic return
- 1000 Eco PTO

**Datatronic 5**
The 9" Datatronic touch screen terminal is sited within easy reach and sight of the driver, and is fully adjustable according to operator preference to allow optimum viewing of all tractor functions.

# The new touch of Precision Farming

## Powered by Fuse™ Technologies

1

**Full tractor functions management** and optimisation features such as transmission, engine and hydraulics.
Moreover there is the remarkable Dual Control system providing excellent control of semi-mounted ploughs by automating the furrow entry and exit. At the same time the system adjusts the plough's depth wheel in relation to the rear linkage. The same system is also used to control implements on the front linkage, automating depth settings and the entire operation, in synchronisation with the rear linkage.

2

**Video Mode** – Pictures from an on-board camera can be displayed on the console screen, allowing operators to monitor complex implements or simply improve safety and efficiency when reversing.

3

**Headland management settings** – The Datatronic, 5th Generation 9" touch screen terminal comes as standard with the most intuitive, straightforward and easy to use automatic headland management system available in the market today and developed exclusively by Massey Ferguson. It is designed to save you significant time at headlands, allowing you to concentrate on the operation in hand so that you can maximise outputs with ease.

# Datatronic 5

First introduced in 1986, the Datatronic is now in its 5th Generation, redesigned in order to create a more intuitive Precision Farming experience, providing a system that delivers a straightforward and easy to use experience, improving efficiency, productivity and profitability.

The New Datatronic 5 features a larger 9 inch touch screen, easy-to-use and intuitive arrangement, similar to the latest generations of smart-phones or tablets.

The New Datatronic 5 and Massey Ferguson's Technology Package is a key asset for enhancing Precision Farming. Making agriculture more profitable and sustainable for the New Generation of Farmers.


4

**ISOBUS for total implement control** – ISOBUS allows an implement manufacturer's control system to be displayed on the terminal screen, saving owners and operators time and money, with no need to install additional monitors in the cab. Simply plug the implement lead into the tractor's ISOBUS socket and the system automatically uploads the operating menus and displays on the screen. MF 8700 S ISOBUS applies to the AEF (Agricultural Industry Electronic Foundation) certification.

5

**ISOBUS MultiPad switch assignment.**
ISOBUS implements can be controlled directly using the MultiPad lever. Having all controls (tractor and implement) on the same lever is a lot more convenient than using additional displays and levers. This really versatile system allows several implements to be stored to operate via MultiPad, so it can work with all ISOBUS implements currently in the farm fleet.

6

**Memorise data and settings** – Unlimited number of user settings configurations enable the system to record information during operation on area worked, fuel use, hours worked and much more. All the settings and parameters can be stored by the Datatronic terminal. Securely back-up those tractor settings: a truly unique feature of Datatronic terminal is the ability to save the memorised tractor settings. All these settings can be stored and recalled to find the previous setting that was used on a tractor. The operator can recall all its settings and be fully operational. All these settings can be transferred between all your machines equipped with Datatronic terminal.

# Guidance options to keep you on track for profit

Auto-Guide™ is Massey Ferguson's full featured, hands free steering system, available on new tractors or as an after-market installation.
Auto-Guide™ is capable of delivering sub-metre, decimetre and centimetre accuracy, increasing the efficiency of your farming operations.


### Easy, fast set up with Go Mode function

Starts up within 5 minutes, even for first time users – This smart function allows the operator to begin working with auto-guidance/steering for the first time within a five-minute set-up time, making the system easy to work with and the benefits faster to reap.

This unique function allows Auto-Guide™ start-up within 5 minutes to allow even inexperienced drivers to step seamlessly into working with the system after just a few implement and wayline settings.

**Implement** → **Wayline** → **Go!**

**Virtually eliminates overlaps** increasing field area covered per hour

Guidance systems are proven to **save up to 12% fuel** in field operations

More efficient working means **less tedium, stress and fatigue for the operator** and more time to optimise performance of the machine

## You choose the level of accuracy you need to fit your requirements

**Submetre Accuracy**

TERRASTAR L, Autonomous, RangePoint RTX.

**Decimetre Accuracy**

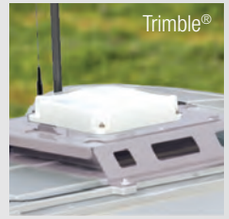
TERRASTAR C, CenterPoint RTX Standard.

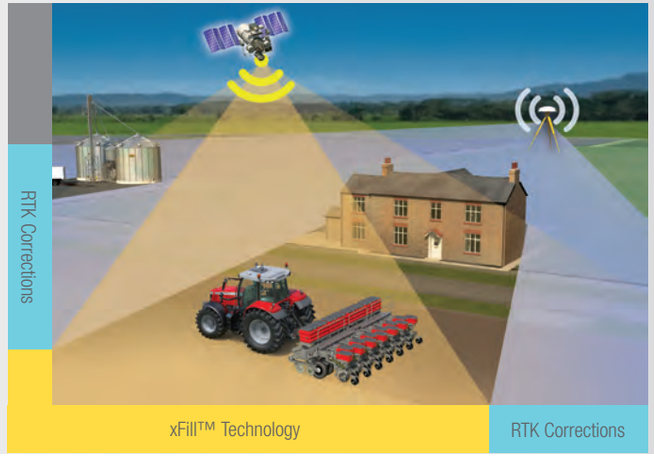
**Centimetre Accuracy**

Ntrip (3G), Satel UHF 400 Mhz (Option), CenterPoint RTX FAST US and EU (Satellite), Hiper AG with, Local solution.


## You choose your receiver according to the accuracy you are looking for

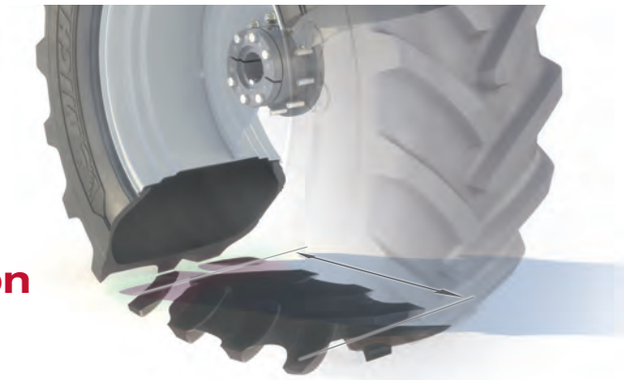
With the new Massey Ferguson Auto-Guide™, there are now two different receiver systems available, NovAtel® and Trimble®. Existing Trimble® RTK infrastructures on the farm, such as NTRIP, can continue to be used.
A number of correction signals are supported, depending on the receiver, for example, EGNOS/WAAS or RangePoint RTX™, CenterPoint RTX™ and Ntrip.
Talk to your local Massey Ferguson Dealer or Distributor to find out more.


Should you lose your signal due to the terrain, Auto-Guide™ continues to work reliably up to 20 minutes without a correction signal thanks to Trimble®-xFill™ technology.

# Large footprint for maximum traction with Michelin tyre AXIOBIB2 High Traction tyre option

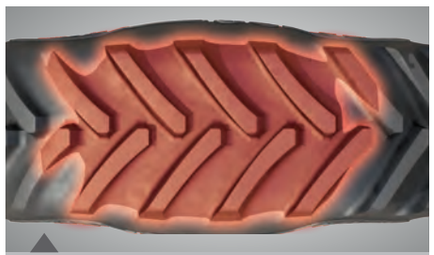


No machine works in isolation on a farm, so working closely with tyre and farm equipment manufacturers makes sense and helps us all to develop our technology. The results of our joint tests show how each element enhances the work quality, productivity and performance as well as protects the soil. It also illustrates how by carefully selecting the right tractor, equipped with the best tyres for the job and matching those to the best implement makes a big difference.

Massey Ferguson offers a wide range of tyre options to match any transport or field applications. The latest tyre equipment allows MF 8700 S models to work at very low tyre pressures, even for high traction jobs, including dual wheels with rear tyre choice up to 900 mm and 2.15 m diameter for better power transfer to the ground.

Test results with an MF 8730 S fitted with Michelin AXIOBIB2 High Traction tire versus Michelin AXIOBIB first generation with a Gregoire Besson plough.

650/85R38
2 pairs of lugs
Smaller contact point, weight is distributed unevenly resulting in more compaction.



VF650/85R42
More lugs to the ground - 3 pairs of lugs
Larger footprint helps to spread weight more evenly, minimising soil compaction and maximising traction.

**+28%** **More traction capacity**, up to +28%

**+26%** **Footprint length** for lowest compaction

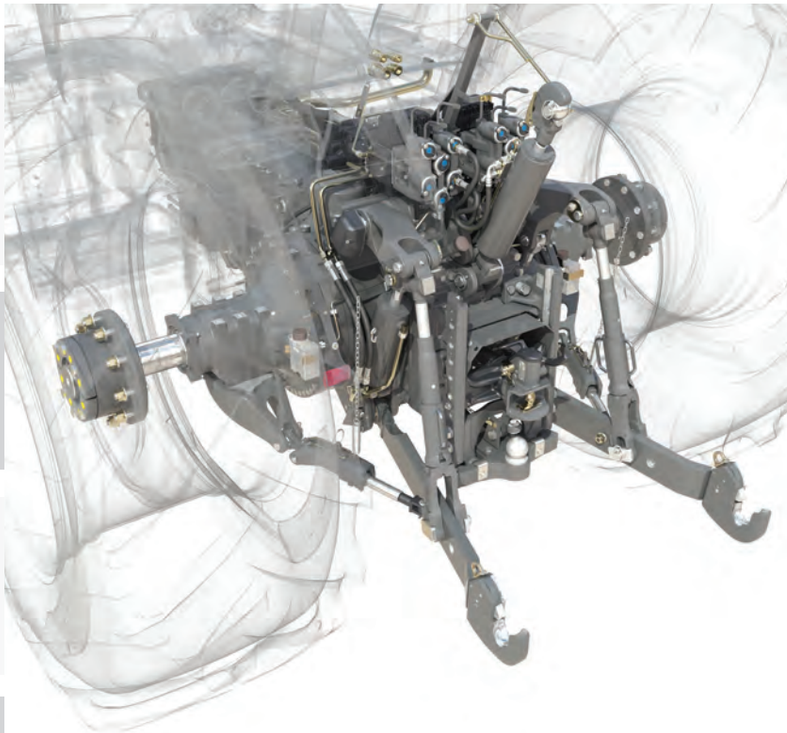
**+11%** Productivity - **Outstanding level of traction** to enable farmer to work faster in the field

**-10%** **Less Fuel Consumption** - Reducing farmers operating cost through fuel saving by up to -10%

**+4%** Low pressure level for preserving the soil and reduction compaction - VF MICHELIN Ultraflex technology for up to **+4% crop yield**

# Powerful Hydraulic Muscle:

## give a lift to your productivity



**The innovator of three-point linkage power and hydraulic capability, Massey Ferguson has never rested on its laurels when it comes to ensuring its systems meet and exceed the requirements of modern machinery. Part of Massey Ferguson DNA, our three-point linkage is the finest example of productivity, power and responsiveness for the operator in the field for more than 75 years.**

### Heavy-duty front and rear linkages

With a rear linkage lift capacity of 12,000 kg, there are few tractors in this power bracket that can match the MF 8700 S series for the ability to hoist heavy implements. The rear linkage design and the tractor's structural build are designed to handle such demands, with twin external lift rams and twin variable-float telescopic stabilisers. Quick couplers with decompressing system are standard, as are external linkage and valve controls. A total of 6 spool valves is available.

At the front, buyers can specify a fully-integrated 5,000 kg front linkage designed to match the Massey Ferguson front suspension, with two double-acting spool valves and a free return line.

### Rear Hitch

The rear hitch with a choice of pintle pin, pick-up hitch, clevis, K80 ball or drawbar has been completely redesigned to make coupling quicker, easier and safer. The ISO hitch design is compatible with a wide range of clevis and drawbar alternatives according to markets.

### The ultimate in draft control accuracy

Massey Ferguson continue to lead the way in electronic linkage control (ELC). On MF 8700 S tractors, the latest evolution in this development provides even greater accuracy in depth setting and ground contour following to provide excellent weight transfer, traction and workrates, while reducing wheelslip, tyre wear and fuel consumption. Armrest-mounted controls for functions including quick engagement, sensitivity and raise/drop speed fall intuitively to hand. There are also full rear fender controls on both sides of the tractor to help when hitching up.

### Powerful braking systems

As you would expect from a tractor of this size, designed to haul and handle the heaviest loads, the MF 8700 S braking system is as beefy as the rest of its hydraulic arrangement. Reassuring, fade-free braking comes courtesy of oil-immersed, power-assisted disc brakes, while air brakes for trailed equipment are an option.

### Standard Active Transport Control

Designed to minimise the pitching action of heavy mounted equipment when in the raised position during transport or on the field headland, Active Transport Control, fitted as standard to MF 8700 S tractors, is a shock-absorbing system that is automatically adjusted for different implement weights to counter implement bounce. The result is smoother, safer, faster transport and a reduced risk of damage to the tractor and its hydraulic system.

### ATC and Quadlink

The combination of ATC and the Quadlink suspended front axle provides exceptional stability when transporting or operating mounted equipment at speed, resulting in greater comfort and safety for the driver, and ultimately greater productivity.

### Power Beyond

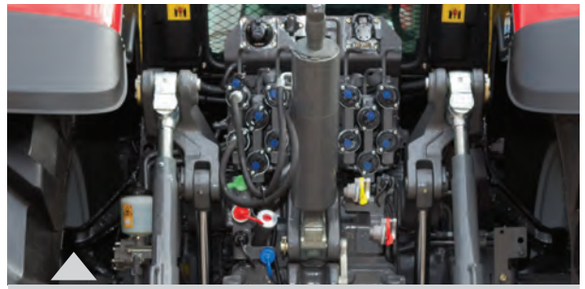
Built into the CCLS spool block is a Power Beyond facility that, via additional flow and return pipes, provides oil flow directly from the pump, enabling additional remote spool valves to be connected.

### Auxiliary spool valves

Standard specification comprises four electro-hydraulic spool valves, with up to eight available if required. Fingertip Spool Management allows complex equipment to be precisely and easily controlled. There are separate spools for the operation of the front linkage and front couplers, as well as the optional pick-up hitch.

### High flow, high pressure oil

All MF 8700 S tractors feature a closed centre load-sensing (CCLS) hydraulic system that provides 205 l/min of oil flow for both linkage and external services, for fast response whatever the load. The result: the ultimate in fuel and power efficiency. Decompression-type hydraulic couplers make implement attachment easier, allowing coupling and uncoupling under pressure.

All rear couplers are equipped with an hydraulic decompressing system.

# Performing the most demanding operations with precision

### High specification PTO

MF 8700 S tractors can be specified with a fully independent 540 Eco/1000 rpm PTO, or 1000/1000 Eco speeds. External engagement and emergency stop buttons provide convenience and safety. External engagement can be automated with engine speed for fast control of implement such as slurry tank filling.

### Economy PTO

Achieved at around 1,600 rpm, 540E and 1,000E rpm economy PTO speeds further improve fuel efficiency and noise levels when on lighter duties.

### Automated PTO control

In 'Auto' mode, the PTO is automatically disengaged when travelling at speeds above 25 km/h, while it is also disconnected when the linkage is raised and re-engaged when it is lowered. The transmission controller monitors and controls PTO engagement according to load for a smoother take-up, leading to improved driver comfort whilst protecting both tractor and implement from damage due to inappropriate engagement.

### Front PTO

A six-spline front PTO which operates at 1,000 rpm is optional on MF 8700 S tractors, and when combined with a front linkage allows a wide range of additional implements to be powered, helping to reduce passes and improve efficiency.

### Power with economy

Nominal PTO speeds are achieved at, or near to, 1,950 rpm, which is also maximum engine power. With the benefit of a constant power band of up to 600 rpm and the ability, with Dyna-VT ability, to precisely select any ground speed at the chosen engine speed, you can always achieve a perfect match of PTO speed, forward speed and power, for optimum economy.

Command Centre PTO selector switches and Auto activation button.


Fender mounted PTO, hydraulic spool valve and linkage controls.


Pillar mounted PTO speed selection controls and linkage controls.

# Standard and optional equipment – tailor your tractor to you

| | |
|---|---|
| **Engine** | |
| 6 cylinder AGCO POWER Tier 2 | ● |
| EEM Engine with memorised speed control | ● |
| Engine Block Heater | ❍ |
| **Transmission** | |
| Power Control shuttle | ● |
| MultiPad lever on Command Control Armrest | ● |
| Dyna-VT 50 km/h* Eco with Dynamic Tractor Management (DTM) @ 15 T gross vehicle weight | ● |
| Dyna-VT 40 km/h Super Eco with Dynamic Tractor Management (DTM) @ 18 T gross vehicle weight | ❍ |
| Cruise speed control | ● |
| ParkLock | ● |
| **Operator environment** | |
| Standard Air Conditioning | ● |
| Automatic Air Conditioning | ❍ |
| Super Deluxe Air Suspended Dynamic Damping System Seat | ● |
| Super Deluxe Air Suspended Maximo Evolution Seat | ❍ |
| Leather Super Deluxe Air Suspended Maximo Evolution Seat, leather auxiliary seat & leather steering wheel | ❍ |
| Auxiliary Seat with Seatbelt | ● |
| Radio, CD, MP3, Bluetooth connection, USB & Front auxiliary | ● |
| Telescopic double angle mirror | ● |
| Telescopic double angle mirror with Electric Adjustment and de-icing | ❍ |
| Active mechanical Cab Suspension | ● |
| **Technology** | |
| 9" / 23 cm Datatronic 5 touch screen | ● |
| Trailer steering axle management ready | ● |
| Dual Control | ● |
| Radar and slip control | ● |
| Headland Management System | ● |
| ISO 11786 signal connector | ● |
| MultiPad with Isobus implement control switch assignment | ● |

**KEY**

– Not available
● Standard specification
❍ Optional
* Depending on market legislation

| | |
|---|---|
| AgControl™ 24 section control | ❍ |
| AgControl™ 24 sections control with 2 VRC | ❍ |
| SpeedSteer | ● |
| Auto Guide™ Ready | ● |
| Auto Guide™ Novatel - Submeter | ❍ |
| Auto Guide™ - Trimble - Submeter | ❍ |
| Auto Guide™ - Novatel - Centimetre | ❍ |
| Auto Guide™ - Trimble - Centimetre | ❍ |
| AgCommand® | ● |
| **Chassis and hydraulics** | |
| Electrical controls of spool valves | ● |
| Electronic joystick | ● |
| Power beyond with couplers | ● |
| Electronic linkage controls with Active Transport Control | ● |
| Auto PTO function | ● |
| Auto 4-Wheel-Drive and Auto Difflock functions | ● |
| Telescopic stabilisers | ● |
| Automatic stabilisers | ❍ |
| Hydraulic Toplink | ❍ |
| Integrated front linkage system | ❍ |
| Integrated Front PTO | ❍ |
| **Electrical equipment** | |
| Automatic isolator switch | ● |
| External lift control on fenders | ● |
| External PTO start/stop control on fender | ● |
| External remote valve control on fender | ● |
| LED working lighting | ❍ |
| **Other equipment (specifications may vary by market)** | |
| Quadlink – Suspended front axle | ● |
| Pivoting front fenders | ● |
| Additional heater in cab | ❍ |
| Hydraulic trailer brake | ● |
| Pneumatic and hydraulic trailer brake | ❍ |

**KEY**

– Not available
● Standard specification
❍ Optional
* Depending on market legislation

# Specifications as standard

| Engine | | MF 8730 S | MF 8732 S | MF 8735 S | MF 8737 S |
|---|---|---|---|---|---|
| Engine Type | | AGCO POWER | | | |
| No. of cylinders/no. of valves/Capacity | No /no./l | 6 / 4 / 8.4 | | | |
| Bore / Stroke | mm | 111 / 145 | | | |
| Aspiration | | Turbo charged with intercooler | | | |
| Injection type | | Common rail | | | |
| Fan type | | Vistronic – variable fan speed | | | |
| Maximum hp @ 1,950 rpm | ✪ ISO hp | 295 | 320 | 350 | 370 |
| Maximum torque @ 1,500 rpm | ✪ Nm | 1,300 | 1,390 | 1,530 | 1,540 |
| Max. power available @ PTO shaft (OECD, accuracy +/- 3%) | hp | 250 | 275 | 300 | 320 |
| Fueltank capacity | litres | 690 | | | |
| Service interval | hours | 400 | | | |
| **Transmission Dyna-VT** | | | | | |
| Type | | Stepless, Continuously variable transmission with Dynamic Tractor Management (DTM) | | | |
| Field speed range | km/h | 0.03 - 28 km/h Forward and 0.03 - 16 km/h Reverse | | | |
| Road speed range | km/h | 0.03 - 50 km/h* Forward and 0.03 - 38 km/h Reverse<br>40 km/h Eco at 1400 rpm - 50 km/h* Eco at 1550 rpm | | | |
| **Rear Linkage and hydraulics** | | | | | |
| Lower links type | Category | 3 or 4 | | | |
| Maximum lift capacity, at link end | kg | 12,000 | | | |
| Hydraulic type | | Closed Centre Load Sensing | | | |
| Maximum Flow | litres/minute | 205 | | | |
| Maximum pressure | Bars | 200 | | | |
| Maximum no of rear spool valves | | 6 | | | |
| **Front linkage and Front Power Take-Off** | | | | | |
| Type | | Integrated on chassis with independent valve control, electro-hydraulic control | | | |
| Lower links type | Category | 3 | | | |

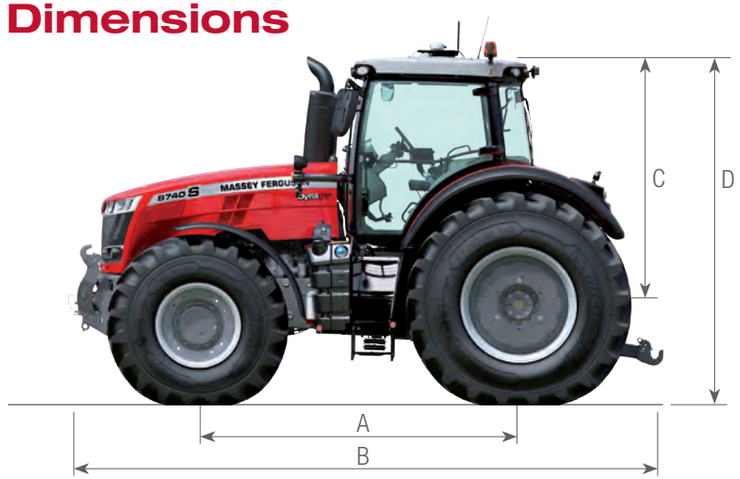
| Front linkage and Front Power Take-Off (cont.) | | MF 8730 S | MF 8732 S | MF 8735 S | MF 8737 S |
|---|---|---|---|---|---|
| Maximum lift capacity, at link end | kg | 5,000 | | | |
| Maximum no of front spool valves | | 2 | | | |
| Engine speed at 1000 front PTO speed | rpm | 2,036 | | | |
| **Power Take-Off (Rear)** | | | | | |
| Operation and control | | Electro-hydraulic engaged. Start/stop control on armrest and on rear fender, with headland automation | | | |
| Speed selection | | Electro-hydraulic control in cab | | | |
| Engine speed at 540Eco / 1000 | rpm | 1,577 / 1,970 | | | |
| Engine speed at 1000 / 1000Eco | rpm | 1,970 / 1,605 | | | |
| Shaft diameter | inches | 1 3/8 " 6 & 21 splines; 1 3/4" 20 splines | | | |
| **Wheels and Tyres** | | (Full range available. Please consult your Dealer) | | | |
| Front | | 600/65R34 | | | |
| Rear | | 710/75R42 | | | |
| **Weights** | | | | | |
| Average minimum weight with no ballast | kg | 10,800 | | | |
| Maximum gross vehicle weight | kg | 18,000 | | | |

**KEY**

✪ ISO TR14396
– Not available
* Depending on market legislation

# Dimensions

| | MF 8700 S |
|---|---|
| A – Wheelbase – m | 3.1 |
| B – Overall length from front weight frame to rear linkage arms – mm | 5,552 |
| B – Overall length from front linkage to rear linkage arms – mm | 6,200 |
| C – Height at centre of rear axle to top of cab – mm | 2,353 |
| D – Maximum height – mm | 3,515 |



MASSEY FERGUSON

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