

HP  
270-370

# MF8600

A powerful future in farming  
5 models: 270 to 370 hp



VISION INNOVATION LEADERSHIP QUALITY RELIABILITY SUPPORT PRIDE COMMITMENT



MASSEY FERGUSON

# Farming into the future

Our vision of the future is to provide you with opportunities and solutions for your business. A vision that will last for generations to come.

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Farming in today's climate has many obstacles which farmers and contractors have to face. With the world's population rising, a greater demand for food and land and with changeable and volatile weather conditions, you need machinery you can rely on.

We understand the challenges that farmers are encountering and so our new range of flagship tractors has been designed and built by the people who truly understand the nature of your business.

Through insight and innovation we build machinery that meets the needs of modern farming so you can look to the future with confidence.





# It's still a matter of pride

In 2004, we proudly launched the award-winning MF 8400 Series, then a ground-breaking machinery line-up in the high horsepower sector. Now, through vision and passion, Massey Ferguson is anticipating the future demands of today's farming community.

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Since 2004 our designers and engineers have worked diligently to continually improve on the innovative advancements that the MF 8400 had to offer.

To get the very best performance and productivity from a tractor, we put it through its paces again and again in the most rigorous and pressurised testing a machine can be subjected to.

Massey Ferguson's designers and engineers researched the main constraints and problems facing today's and tomorrow's tractor operator; visibility and accessibility; both front and rear, bonnet and grill dynamics, work quality, ergonomics and fuel consumption.

We know how important it is to get an honest and unbiased opinion of what our customers want and need, so we used market research and extensive customer opinion and feedback to determine what was needed to take the product to the next stage.

## **Extreme testing**

Every part of the machine is painstakingly tested. Extreme condition simulation tests ensured that the tractor could withstand the worst climate, most unforgiving terrain and most difficult field operations. Temperatures within the cold chamber reach -40°C. The MF 8600 has undergone highly detailed analysis. From the simplest of switches and buttons to the tractor's external structure, every part has been assessed for pressure, resistance and general workday use.

## **Low noise levels, lowest emissions**

Machine noise levels and emissions were tested to achieve complete operator comfort and to meet and deliver the ever-evolving demands for emission reduction. By collaborating with SISU and Bosch systems, we achieved what was thought to be impossible; cleaner emissions, lower fuel consumption but with increased power.

The AGCO SISU POWER e<sup>3</sup> Selective Catalytic Reduction (SCR) system is a unique and sophisticated feature meeting future emissions legislation right now.

Cab noise levels were also tested within our unique semi-anechoic chamber using sophisticated and modern acoustic equipment, allowing the operator a comfortable and quiet working day.

Through listening to the expectations of the customer and collaborating with them during field tests, we have been able to test and develop a machine that defines the spirit of Massey Ferguson, producing a tractor with unprecedented capabilities.



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01 Designing the MF 8600 Series tractor

02 Cold chamber testing

03 Massey Ferguson customers invited to test the new 'Panorama' cab

04-05 Rugged field testing of the MF 8690 including grip and traction, visibility, power responsiveness, comfort and quality



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# A new experience

The most important objective during the development of the MF 8600 Series tractor was to produce a machine with uncompromised power and a multitude of innovative features; creating a totally new operator experience.

The MF 8600 Series has seriously modern, dynamic looks, which offset its immense structure. At the heart of the machine is a muscular, six-cylinder AGCO SISU POWER engine and award-winning Dyna-VT transmission.

Protecting your investment is a new cast front axle support, heavier-duty front axle with optional QuadLink front suspension and a tough new chassis-rail structure.

There are many new and innovative characteristics that set the MF 8600 apart from the competition; all of which guarantee the highest productivity and optimum performance.

## The MF 8600 range

Model	Engine	Capacity	ISO hp <sup>1</sup>	ISO hp <sup>2</sup>
MF 8650	6 cyl. turbo/intercooled e <sup>3</sup> SCR	8.4 litre	240	270
MF 8660	6 cyl. turbo/intercooled e <sup>3</sup> SCR	8.4 litre	265	295
MF 8670	6 cyl. turbo/intercooled e <sup>3</sup> SCR	8.4 litre	290	320
MF 8680	6 cyl. turbo/intercooled e <sup>3</sup> SCR	8.4 litre	320	350
MF 8690	6 cyl. turbo/intercooled e <sup>3</sup> SCR	8.4 litre	340	370

<sup>1</sup> ISO TR14396 @ 2200 rev/min    <sup>2</sup> ISO TR14396 @ 2000 rev/min



**01** Contemporary styling and a powerful new look combine to create the MF 8600 Series.

**02** AGCO SISU POWER Diesel 8.4 litre, 4-valve common rail engines; low running costs, low noise levels and uncompromised power and torque.

**03** The 'Panorama' cab. 28% more room means there's more space to work freely and comfortably. All controls are now located on the user-friendly arm rest to the right of the operator's seat.

**04** OptiRide 4-point cab suspension and OptiRide Plus - Dynamic cab suspension (Optional)

**05** Superb new rear linkage with extreme 12,000 kg lift capacity.

**06** Integrated Front Linkage System (IFLS) with a massive 5,000 kg lift capacity.

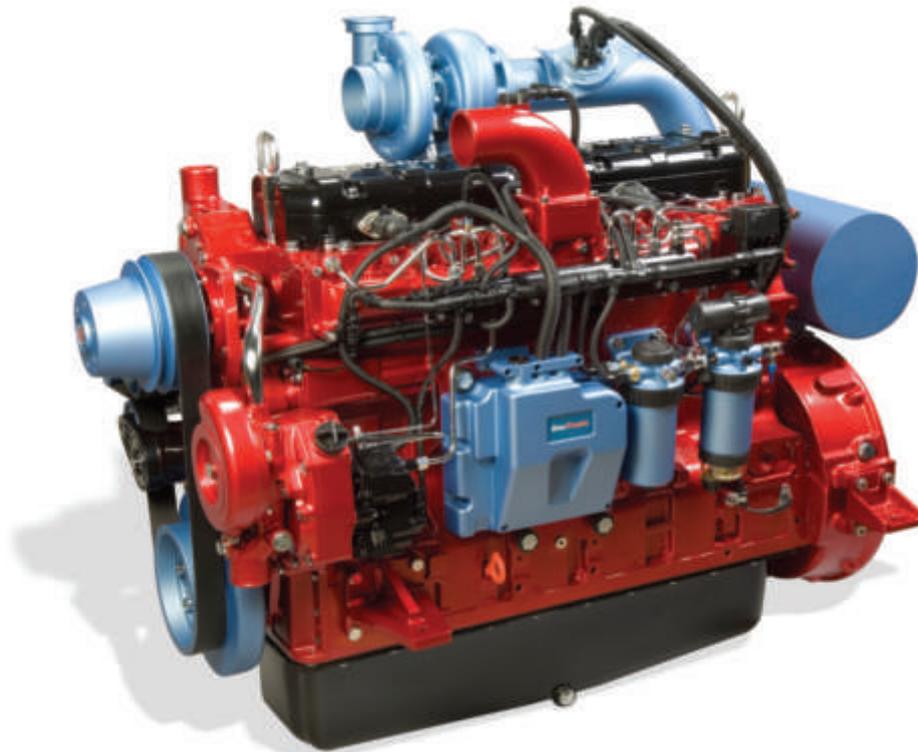
**07** The new chassis structure with immensely durable chassis rails, robust cast front axle support and heavier duty front axle with QuadLink.

**08** The MF 8600 Series is the first tractor range in the world to feature SCR technology

**09** Dyna-VT transmission now comes with Dynamic Tractor management; one of the many new and enhanced features on the ultimate transmission.

# Engines you can trust

Cleaner, more productive and economic 'AGCO SISU POWER' engines are at the heart of every MF 8600 Series tractor, guaranteeing precise power and high performance.



The 4-valve, common rail AGCO SISU POWER engine provides the ultimate in optimum power delivery, with the benefit of a turbocharged intercooler.

With exceptional 'constant power' and torque backup, the engine keeps all of its productivity and strength, but with the added advantages of lower emissions and improved fuel economy.

**Intelligent engine management**  
All AGCO SISU POWER engines feature new generation, latest technology, 'Tier III-compliant',

Electronic Engine Management (EEM). This enables continuous adjustment of the amount and timing of fuel injected, in relation to engine speed and load. The results are lower emissions, more power and superb fuel economy. EEM also enables a range of advanced engine control functions, including Engine Speed Control, which is standard on MF 8600 Series tractors.

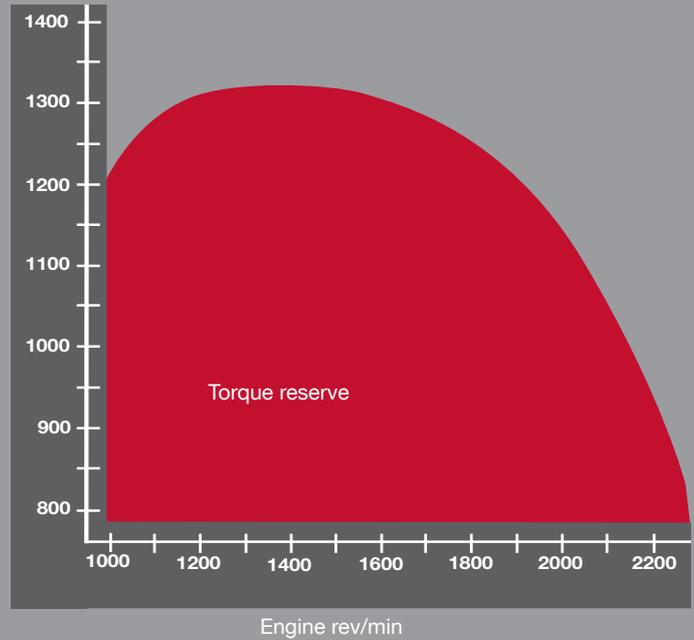
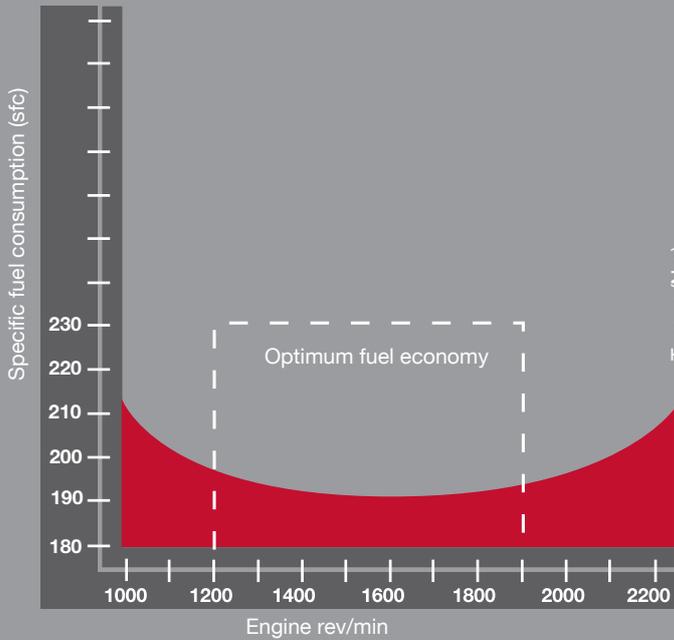
**Extra power**  
The extra power feature provides more power at 2,000 rev/min than at 2,200 rev/min. This is consistent

with PTO speed so that maximum power is available for all PTO applications.

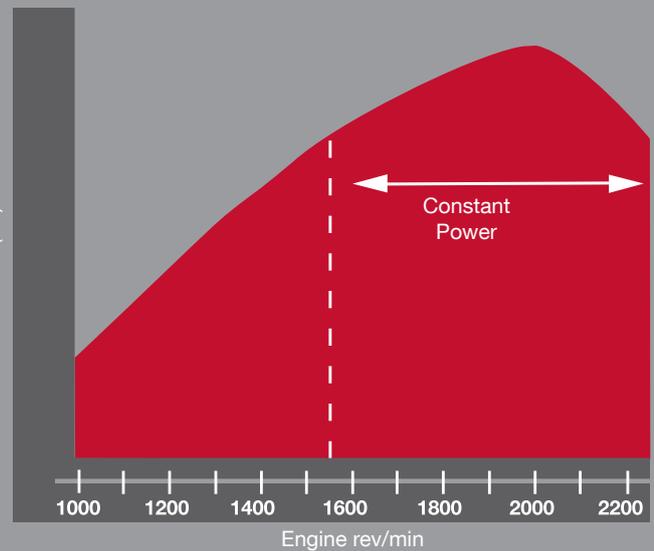
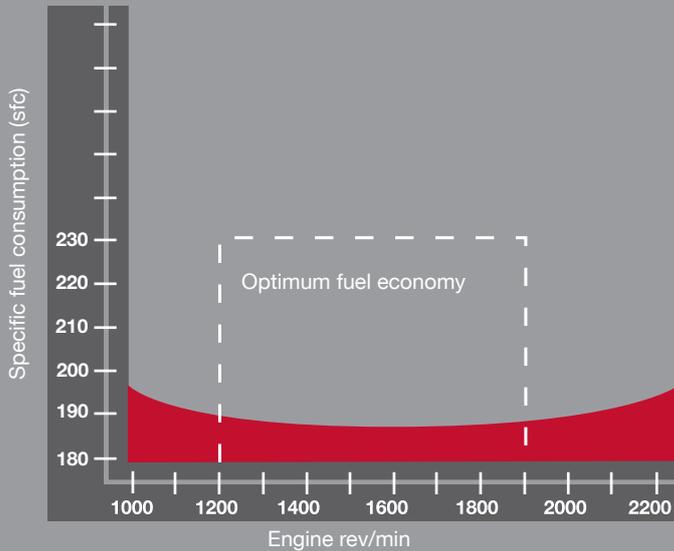
**Engine speed control**  
Switches mounted conveniently on the right-hand console enable engine speed to be pre-set and memorised.

The ability to return quickly and easily to precise engine speeds will boost productivity, improve work quality and simplify operation in almost all of your daily tasks.

Previous engines



New engines



Compared to previous generation engines, MF's electronic engine management system broadens the operating range within which the tractor is operating at optimum fuel efficiency.

The upper curve clearly shows how maximum torque is maintained between 1200 and 1500 rev/min, with steep torque rise as engine revs fall between 2200 and 1500 rev/min. The lower curve shows high power, with 'constant power' maintained down to 1570 rev/min.

**Improved fuel economy**

The Electronic Engine Management system constantly monitors a wide range of parameters and makes continual and incredibly fine adjustments to fuel injection. Combined with high pressure 'common rail' fuel injection and the 4-valve cylinder head design, this has given further significant improvements, not only in emissions but also in fuel economy.

**The cooling system**

A highly efficient cooling system ensures that the engine itself works to its fullest capacity regardless of the application. The fully-vented bonnet allows the engine to breathe even in dusty, dirty conditions. A large air filter maintains cleanliness within the engine, allowing for higher productivity and savings on fuel consumption.

# On the road to a greener future

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It's more important than ever to be part of the environmental solution

Through pioneering technology, Massey Ferguson, AGCO SISU POWER engines and Bosch have created the most economical and ecological off-road diesel engine in the world; creating the opportunity to own a machine that is less harmful to you, your livelihood and the environment.

While still being cost efficient and performance-perfect, the AGCO SISU POWER e<sup>3</sup> engine in the MF 8600 range is well ahead of its time both in emissions regulations and in fuel efficiency, resulting in the ultimate high horsepower tractor of the future.

Featuring Selective Catalytic Reduction (SCR) system which is widely used within the road transport industry, AGCO SISU POWER's e<sup>3</sup> SCR engine technology significantly reduces exhaust pollutants and fuel consumption.

Mauno Ylivakeri is Engineering Director for AGCO SISU POWER engines and states: "Selective Catalytic Reduction is proven to provide the best fuel economy in its class and deliver much cleaner exhaust gas emissions".

"The two main exhaust pollutants are Nitrous Oxide (NOx) and Particulate Matter," he continues. "Government policy is clearly directed at reducing NOx due to the environmental consequences of smog, acid rain and respiratory problems".



# The technology of tomorrow, today

Selective Catalytic Reduction used in conjunction with AGCO SISU POWER engines means an end to damaging emissions and high fuel costs

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## How does the system work?

The SCR system on AGCO SISU POWER e<sup>3</sup> engines treats the exhaust gases that would normally enter and damage the atmosphere, using AdBlue<sup>®</sup> diesel exhaust fluid.

AdBlue is metered in precise quantities and is injected via the Bosch control system into the exhaust, which includes a catalytic converter.

## Simple to use, easy to maintain

There's nothing complicated about the SCR system. It's incredibly easy to control and maintain. The AdBlue is held in a separate tank located next to the fuel tank and is consumed at the maximum rate of 3% AdBlue to diesel, the AdBlue tank only needs to be filled every second fuel tank fill.

A 600 litre container of AdBlue is enough to treat 20,000 litres of diesel safely whilst still allowing for optimum performance throughout.

Selective Catalytic Reduction can cut fuel consumption by a minimum of 5% compared to equivalent engines using alternative emission reduction systems. On average, this is the equivalent to thousands of litres of fuel saved every year. Reduced fuel consumption means a significant reduction in carbon dioxide (CO<sub>2</sub>) emissions. Due to

highly optimised combustion, particulate emissions are over 83% lower than current legislation demands. This is exceptionally beneficial for the environment and to people's health. Other gaseous emissions, such as hydrocarbons and carbon monoxide (CO) emissions, are lower than generally in Stage 3A engines, making this engine safe and future proof.

The characteristics of the SCR system means that optimised combustion generates around 15% less heat. This reduction in heat means the cooling package is lighter and more efficient.

The life span of SCR equipment is equal to the engine's lifetime, and the system is practically service free. The operator hardly notices the presence of SCR at all. What the operator will notice however, is the significant savings in operating costs.

SCR (Selective Catalytic Reduction) technology will be essential for meeting the strictest emissions limits at the beginning of the next decade, whilst saving money on rising fuel costs and protecting the environment for the next generation.

**This is technology for tomorrow, ready for you to use today. For your future, for your business, for the environment.**



## Economic. Efficient. Ecological - e<sup>3</sup> The facts



- The AGCO SISU POWER e<sup>3</sup> SCR system is the most efficient in its class, cutting fuel costs by a minimum of 5%.
- The AdBlue solution works in harmony with the SCR system and can be easily obtained from your Massey Ferguson dealer.



- AGCO SISU POWER e<sup>3</sup> engines with Selective Catalytic Reduction run at optimum efficiency without compromising engine performance.
- There is no need for additional service tools or expensive diagnostic interfaces in the vehicle.



- By 2014, a 75% reduction in Nitrous Oxide gases is required as part of Europe wide legislations on emissions levels. By using the e<sup>3</sup> SCR system, we are meeting these regulations in time to make a real difference to the environment and to our health.
- The technology offers big savings in costs and helps protect our environment at the same time.

# Infinite wisdom

In order to give you the highest possible power and productivity, we use the best transmission system. Our award-winning high horsepower tractors all share this ground-breaking, state-of-the-art functionality.



Dyna-VT is built around careful, thoughtful design that gives optimum durability to the machine and total operator comfort to you. Ensuring maximum productivity, reduced physical strain on the operator and optimum fuel efficiency at all times.

## **Stepless precision**

Dyna-VT is intuitive; not only does it make life easier when working in differing conditions but it's also amazingly simple to use. There's no shifting of gears, no jolts and no breaks in traction or power.

## **Constantly in control**

The unique power control lever makes forward/reverse shuttling and speed change convenient and hassle-free; when baling and foraging, for example, you can choose to control the machine by foot pedal or, depending on conditions and specific applications the operator has a choice of operating modes.

## **Pre-set speed control**

Forward and reverse speed and rate of acceleration can be pre-set within each of two ranges. By using SV1 and SV2 and 'pre-setting', the speed will be maintained automatically and also memorised at engine shutdown. Headland turns, loader work and

many more field operations become faster, easier and less tiring.

## **The 'Supervisor'**

The 'Supervisor' is on continuous stand-by and activates when engine speed falls under load. The benefit of the 'Supervisor' is that even when the load on the engine is increased and engine speed drops, the transmission will automatically reduce forward speed to maintain total power, whether in PTO applications, fieldwork or transportation.

When used in conjunction with SV1 and SV2, which set a specified forward speed, the tractor will then operate at maximum output as load fluctuates. Fine adjustments can be made on-the-move as response is immediate, making numerous applications hassle-free.

## **Dynamic Tractor Management (DTM) - Intelligent machine management for optimum fuel efficiency**

To keep you in constant control and comfort we now offer Dynamic Tractor Management (DTM), a new feature, which works in conjunction with Dyna-VT. This electronic management system will automatically control the engine and transmission when activated.

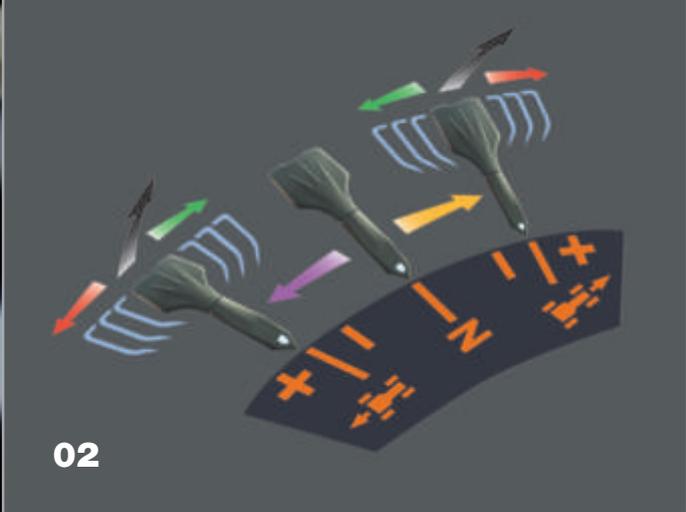
DTM controls the engine speed according to the load on the tractor. It maintains the required forward speed whilst at the same time minimising the engine revs in order to keep fuel consumption to a minimum.

DTM will manage the engine between 800-2260 rpm but it can manually set an upper or lower speed limit in which the DTM will still work exceptionally well. The system works in harmony with Dyna-VT, allowing you the option of lever or pedal modes.

Dyna-VT and Dynamic Tractor Management (DTM) will work consistently at maximum efficiency and economy whilst maintaining a smoother drive quality and a noticeable reduction in fuel consumption.



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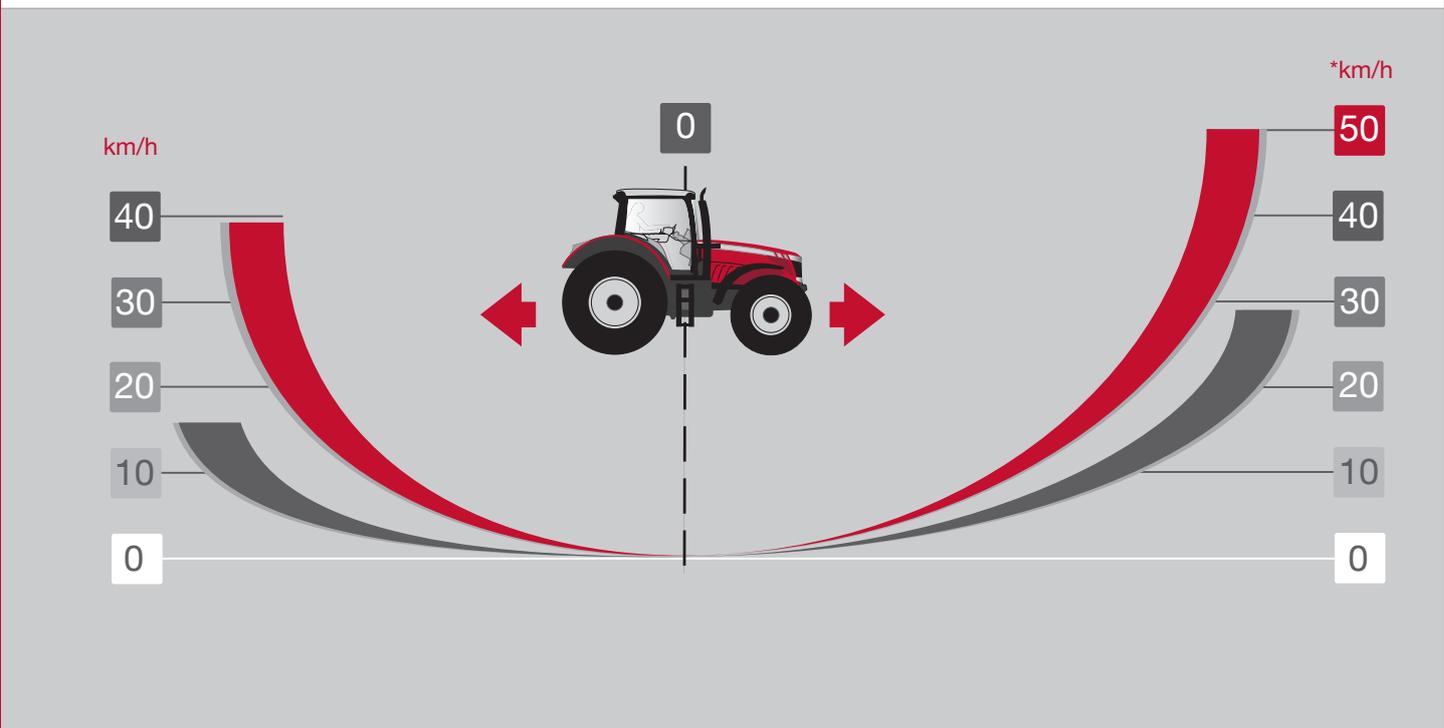
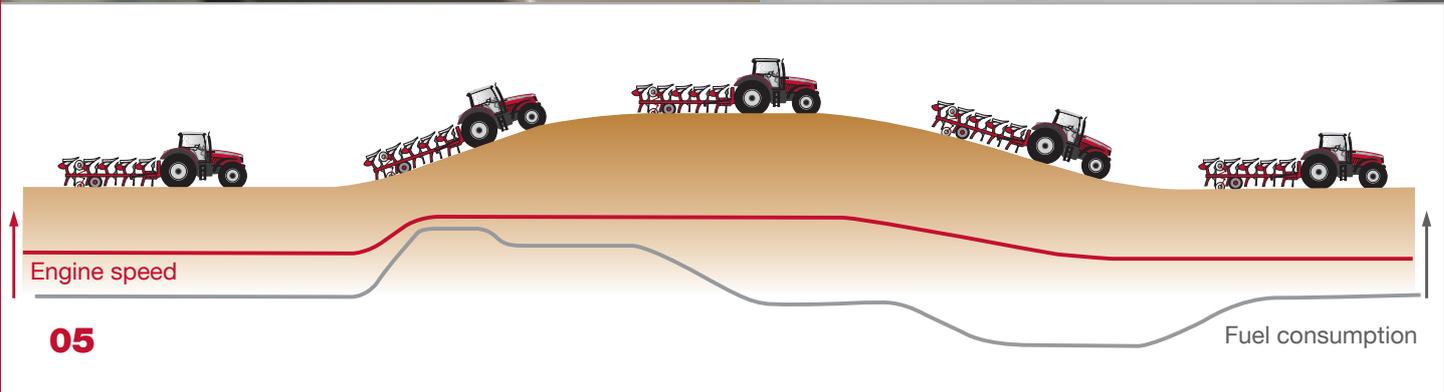
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01-02 Left-hand power control lever

03 Dyna-VT lever

04 SV1/SV2 Speed memories, Dyna-VT operating modes and range selection

05 Dynamic Tractor Management at work

06 Two infinitely variable ranges cover all field and transport applications

\*Depending on market legislation

# In-Cab excellence

Like its exterior, the MF 8600's interior is modern, uncluttered and ergonomically sound, offering you the ultimate operating space.

This spacious cab has been specifically designed with the operator's comfort and well-being in mind.

We understand that you may spend many hours in your tractor, so it's important to feel relaxed within a pleasant environment. The 'Panorama' cab features a purposeful layout, with superb instrumentation, intuitive Dyna-VT controls and levers and switches thoughtfully grouped on the new armrest to the right of the operator. The 'Panorama' cab now boasts four pillars rather than six so visibility is unrestricted. The cab is now 28% more spacious, compared to that of the MF 8400 Series tractor.

#### **Significantly improved ride quality**

As well as an extremely comfortable drivers seat, the MF 8600 cab is fitted with a brand new 4-point suspension system. It uses the latest in hydraulic ram and accumulator technology, through the use of sensors, which intelligently provides information to ensure the cab is at an even level.

For even more comfort you may prefer the award-winning OptiRide Plus as an option. This allows the operator to completely control the level of damping through the dial in the cab. Via a number of sensors and data collected through the tractor CAN-BUS, the system will automatically adjust the damping of the cab suspension. Information on rolling and pitching is fed to the 'central cab suspension control box', which maintains damping and can provide up to 25% more comfort.



OptiRide Plus cab suspension system has been awarded the gold medal for innovation at SIMA 2009.





01 New 'Panorama' cab with 28% more room





# More productivity, enhanced comfort

You'll always find the usual necessities within our cabs but we always strive to push operator comfort to the next level. That's why you'll find new features that will help to make the working day a lot less stressful.

The 'Panorama' cab is 28% larger, allowing the operator more room to move around easily and comfortably in the cab. This extra space makes provision for the newly styled ergonomic armrest which can be positioned precisely for operator comfort.

The single, wide door and unobstructed flat floor provides excellent access at all times. It's quiet too, with low in-cab noise levels under load. Fine-tuning of the machine means noise quality has been improved considerably.

#### **The control centre**

For added convenience, the control centre next to the armrest houses the controls for PTO, front and rear linkage, draft and position control and steering settings. By encasing these controls within the panel prevents any risk of accidental operation.

#### **Datatron Control Centre Display**

The Datatron 4-Control Centre Display (CCD) has a perfectly positioned 7" colour monitor. Mounted on the armrest, it is fully adjustable to allow optimum viewing of all the tractor's functions.

The operator area within the MF 8600 Series cab is built to the highest levels of comfort and usability. As you would expect, the instrument panel is clear and concise and has been designed for optimum visibility. It's mounted conveniently on the telescopic steering column along with the multi-function lever, dot matrix controls and 'Power Control' lever. All of which can be tilted so everything moves with your body's movement for comfort and extra control.

The instrument panel has two main digital displays as well as an analogue rev counter. All main tractor warning functions can be viewed from here as well as engine coolant temperature, oil pressure, AdBlue and fuel tank levels, so you are always in total control of your machine.

#### **Little extras make a big difference**

Sometimes it's the little things that can make a huge difference to how you work every day. The MF 8600 suspended cab is available with numerous features including a cool box, extra plug sockets for mobile phones and laptops, radio and CD

player, air suspended swivel seat, telescopic side mirrors and electric de-icing. Optional extras include CD Player with MP3 compatibility, Dynamic suspended cab, super-deluxe air suspended seat and automatic air conditioning.

#### **Solar energy for extra power**

A new solar panel, located on the cab roof, is just another cost-effective and environmentally-friendly way to get the most from your machine. The solar panel will compensate for any natural battery loss and will maintain a full battery all-year-round, even when the tractor is not in use. There's no need to worry about cold start in the winter.

The solar panel uses only 100% renewable energy and will maintain battery longevity.



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01 High visibility instrument panel and telescopic steering column

02 Control arm

03 Under-panel control centre

04 USB port and SD card connection through the 'Control Centre Display'

05 Work lights module

06 Air conditioning and climate control

07 Well-placed vents for extra ventilation, demisting or heating

08 Using nature's resource - The MF 8600 solar panel

# Meeting operational demands precisely

With power, versatility and durability of operation as key design criteria, the PTO system has a standard specification that meets all operational demands.

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## **New Front PTO**

A new front PTO is now available as an option across the range. With 6 splines at a PTO speed of 1000 rev/min, the combination of robust front linkage and various PTO options will intensify productivity and flexibility.

## **High specification PTO**

Fully independent 540 Eco/1000 rev/min or 1000/1000 Eco rev/min PTO is available. Additional fender-mounted engagement and emergency stop buttons also give added convenience and safety.

## **Power with economy**

Nominal PTO speeds are achieved at, or near to, 2000 rev/min which is also maximum engine power. With the benefit of a 'constant power' band of up to 600 revs and the ability, with Dyna-VT, 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 – with optimum economy.

## **Economy PTO**

For lighter duty work, '540 Eco' or '1000 Eco' PTO speed is achieved at around 1600 engine revs, further improving fuel economy and helping to reduce in-cab noise levels.

## **Automated PTO control**

In 'Auto' mode, the PTO is automatically disengaged when the linkage is raised (or when travelling at speeds above 25 km/h)

and re-engaged when the linkage is lowered.

Further reducing the need for operator input, the Transmission Controller monitors and controls PTO engagement depending on load. This gives a smoother 'take-up', giving improved driver comfort and also helping to protect both implement and tractor from damage due to inappropriate engagement.

## **Differential locks and 4-wheel drive**

The Transmission Controller also takes care of many of the normally repetitive tasks of 4-wheel drive and differential lock operation. The system also engages the differential lock when you need it; when the implement is lowered into work and disengages it when you don't.

## **QuadLink suspended front axle**

Now fitted as standard on all MF 8600 Series tractors, the QuadLink front axle has excellent ground clearance and maintains good turning angles even with larger tyre sizes.

## **Accurate, precise steering**

All MF 8600 Series tractors are equipped with hydrostatic steering which provides light, positive and accurate steering under all operating circumstances.

## **SpeedSteer - for exact turns**

This new, optional feature enables the operator to adjust the steering ratio and select the number of turns of the steering wheel required for a given amount of steering angle turns. The system can be switched on and off. Above 18 km/h, it automatically switches off for safe operation at high speed in the field and on the road.

## **Auto-Guide for faster, precision farming**

The optional Auto-Guide satellite navigation system uses leading GPS technology to guide your tractor and implements at higher rates of speed and accuracy. This is especially valuable for more accurate operation at night, in low visibility or when working in pre-emergent crops.

Auto-Guide steers the tractor, without operator input, to make parallel bouts avoiding overlap or un-worked land. This reduces driver fatigue and fuel usage, eliminates unnecessary chemical application and can significantly increase productivity.



01 PTO speed selection

02 PTO selector switches and 'Auto' activation button

03 Fender mounted PTO controls

04 Optional SpeedSteer for simple headland turns



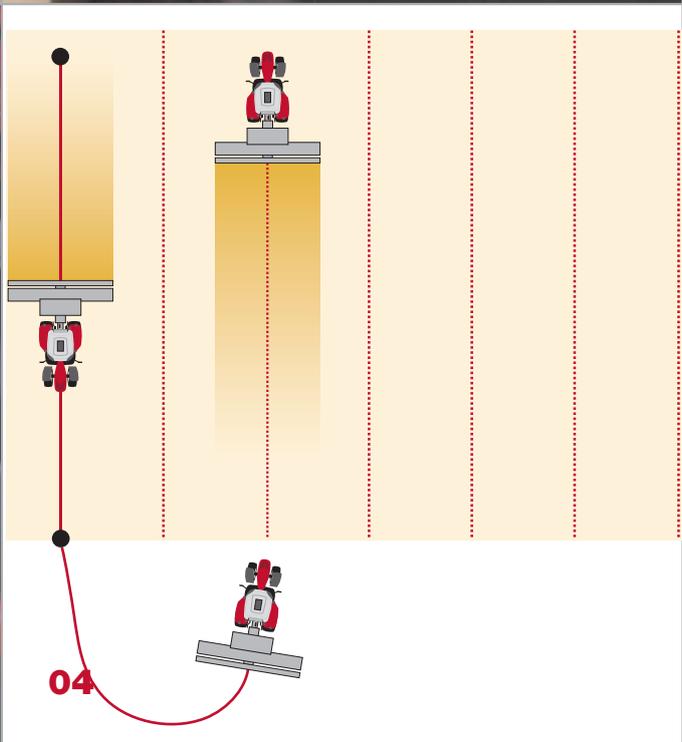
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# Responsiveness is second nature

We have always been industry leaders when it comes to hydraulics and linkage. In part, it's what we're famous for but our continual refinement of the Massey Ferguson linkage system means more productivity, power and responsiveness, for the operator, in the field.

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## More accurate draft control

Massey Ferguson's digital ELC system gives the highest standards of draft control with more accurate depth settings and better ground contour following. The result is more weight transfer, better traction, less wheel slip, reduced tyre wear and reduced fuel consumption whilst still maintaining greater output.

## Convenient controls

Frequently used controls and the ELC control panel are mounted on the armrest for straightforward, accurate operation. The system incorporates advanced integrated features such as sensitivity, quick soil engagement and automatic drop speed as standard. For faster implement attachment the rear linkage can also be operated from push buttons on each rear fender.

## Fast hydraulic response

The Closed Centre Load-Sensing (CCLS) hydraulic system provides 175 l/min oil flow for both linkage and external services with virtually

instantaneous response, with no wasted power - or fuel.

Implement hook-up is simple, with 'decompression hydraulic couplers' that enable equipment to be connected and disconnected under pressure.

## Auxiliary spool valves

Four electro-hydraulic valves are fitted as standard and a further 6 rear spool valves are available if required, the Fingertip Spool Valve Management System enables complex equipment to be controlled with ease and precision.

Separate spools are dedicated to the operation of the front linkage, and front couplers, as well as the dromone auto hitch when specified.

## Power beyond

Built into the CCLS spool block is the 'Power beyond' facility. Extra flow and return pipes provide oil flow directly from the pump, enabling additional remote spool valves to be connected.

## Standard Active Transport Control (ATC)

When driving across the headland or transporting heavy mounted equipment, implement 'bounce' can occur.

Active Transport Control is a shock-absorbing system which minimises the 'pitching' action - automatically adjusting for different implement weights.

This gives smoother, safer, faster transport and, by reducing shock loads through the lift rams and hydraulic circuits, also minimises the risk of damage to the lift system.

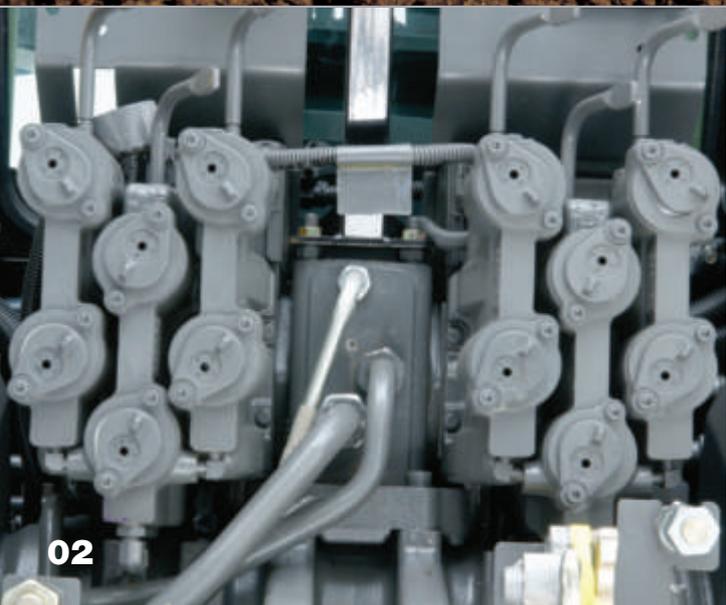
## ATC and QuadLink

ATC operates in conjunction with the QuadLink suspended front axle to give exceptional stability when transporting or operating mounted equipment at speed, giving greater comfort, safety and productivity.



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01 Powerful linkage and hydraulics means excellent field performance  
02 Six rear spool valves are available  
03 Heavy-duty, extra strength three-point linkage



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**Highly specified rear axle and linkage**

Like everything else on the MF 8600 Series, the rear axle and 3-point linkage are highly specified. Twin external lift rams, high visibility pick-up hitch and drawbar, quick-attach hook top and lower links, external linkage control on both rear fenders, twin variable float telescopic stabilisers and three spool valves are all standard equipment. Rear linkage lift capacity is an immense 12,000kg.

**Exceptionally powerful brakes**

As you would expect, a tractor range as powerful as the MF 8600 Series needs an extraordinarily

strong braking system. All models are fitted with oil immersed, power-assisted disc brakes which give reassuring, fade-free braking, even with heavy loads.

Optional factory-fitted pneumatic trailer brakes can be fitted, adding comfort and safety when driving with heavy loads at high speeds.

**Integrated Front Linkage System (IFLS)**

MF 8600 Series tractors come complete with a brand new, fully integrated front linkage system. This new system has been consolidated into the overall design of the machine

and complements the front suspension perfectly.

Two front hydraulic couplers with dedicated spool valves provide hydraulic service for implements and, with an overall lift capacity of over 5,000 kg, the MF 8600 Series tractors' immense capability can easily handle heavy-duty applications.

# What our customers have to say

▼ Peter Jensen farms around 800 hectares of combinable crops south of Randers in Denmark, with his brother Mogens, operating a rotation comprising winter wheat, oilseed rape and winter barley. In 2008 he was invited to use a new MF 8600 Series tractor. Here's his verdict.

"My first impressions were that the MF 8690 looks very strongly built and heavily proportioned, particularly with regard to the front axle, chassis side rails and 3-point linkage."

"It feels good to drive, very easy to operate and the ride is steadier due to the OptiRide suspension. The view from the cab is excellent and is much more spacious too. It's good to have all the main

controls on the Control Arm."

"I like the new, modern styling and really appreciate the pivoting bonnet, which gives easy access to the cooling package and air cleaner for daily maintenance."

Mr Jensen is also impressed by the MF 8690's field and fuel performance. "After sowing 550 hectares of winter wheat using a 6-metre Amazone power harrow/seed drill combination, it appears that the fuel consumption on a ratio of litres per hectare was considerably lower compared to my previous tractor," he reports.

"However, with the MF 8690, I was able to travel at a faster average speed, with the higher productivity providing a good saving in time. It

also makes it easier to get the job done on time."

Asked what would make him choose a Massey Ferguson tractor over a competitor's model, Mr Jensen replies: "I want a tractor with the most advanced technology, with efficient cab suspension and with renowned engine and transmission technology. I also appreciate the network and back-up behind Massey Ferguson."





▲ Kai-Richard Schlichting runs a substantial contracting operation around the town of Hindenburg, in the Sachsen-Anhalt region of Germany. Besides employing 25 permanent staff, the business runs 15 tractors – eight of which are Massey Ferguson machines. This means he should be well-qualified to comment on the new MF 8600 Series.

“My initial impression was extremely positive, proving to me that we had made the right decision in opting to use Massey Ferguson within our company,” Kai-Richard Schlichting states. “Compared to earlier models, the MF 8600 is a step forward in its extremely successful development, which is underlined by its provoking and appealing design.”

“The MF 8600 is extremely user-friendly, being simple to understand and operate,” he continues. “The switch arrangement is simply and clearly laid out – for example, it is now very easy to operate the cruise control setting on the console. In addition, the cab is very spacious, quiet, clearly laid-out and comfortable.”

Kai-Richard Schlichting has also formed a highly positive view of the SCR technology’s potential to reduce both diesel consumption and emissions. “I think it makes you feel good to be able to deliver a full service to customers, while at the same time contributing something to the environment and nature – which is what we contractors live off at the end of the day.”

There are numerous reasons why Kai-Richard Schlichting continues to invest in Massey Ferguson tractors in order to provide a round-the-clock service 365 days a year. High on the list is to be able to call on good, flexible dealers.

“Everyone from the dealers themselves, area managers and demonstrators are always available and ready to act, responding quickly and constantly on hand to help with problems,” he says.

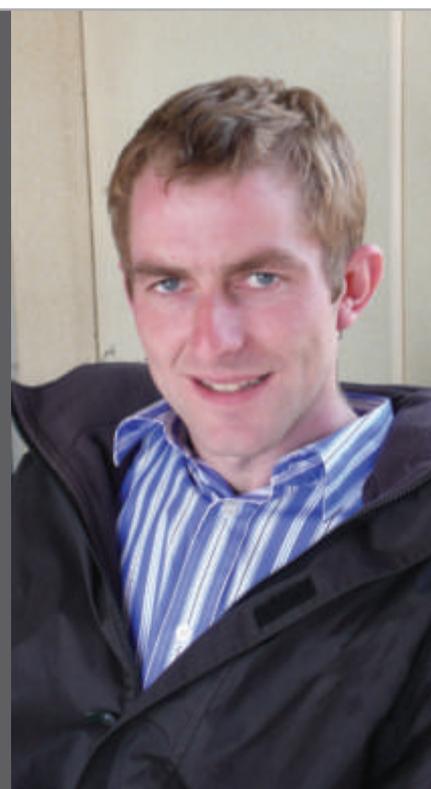
“As for the tractors, it is the robustness of the extremely powerful engine, the user-friendliness and the diesel consumption that continue to astound us.”

## Dyna-VT

▶ James Bolton is a contractor based in Somerset, UK. He currently owns a fleet of Dyna-VT tractors, which have helped to run his business for over 13 years.

James says that when Dyna-VT was introduced it was a real turning point for tractor operators, “We are busy all year round so we need good, strong reliable tractors. Dyna-VT gives us productivity and comfort without loss of torque and power.”

“What both ourselves and our customers particularly like is the fuel economy and driveability. Dyna-VT tractors are very easy and comfortable to drive, even during heavier road haulage applications. Fuel efficiency is a major issue for all farmers and contractors so through the use of Dyna-VT, you can always achieve good engine speed and power whilst benefiting from controlled fuel consumption.”



# Individual care packages for individual circumstances

Nothing is ever certain in life; this is especially true if you work within the agricultural sector. So imagine how much easier life would be if you could experience true peace-of-mind where your farm machinery is concerned; no more hidden costs or surprise invoices.

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**manager** Service and Repair Contract\* is a complete package aimed at providing total care for your tractor including routine maintenance, repair cover and full AGCO backed warranty. This fully-backed contract will cover critical components such as:

- Engine and transmission
- Hydraulics
- PTO
- Steering
- Electronics
- Cab and controls
- Axles

#### Assurance for the life of the machine

You can be assured of 'preventative' servicing using the latest technology and professionally trained technicians. With years of experience they are on hand to ensure that your machine runs at optimum performance.

All of this will be carried out according to a strict maintenance schedule supplied by Massey Ferguson.

With a **manager** contract and through this 'preventative' servicing, your machine will maintain excellent productivity throughout its long working life. The most important aspect of this package is that you will never incur any unexpected hidden costs.

It is possible to cut the cost of maintaining your machine through 'preventative' servicing and maintenance, thereby reducing long term ownership costs and securing a productive future for your business.

#### Tailored to your needs

**manager** has been designed to cater for your individual needs. Cover is available for up to 5 years or 6,000 hours depending on your requirements. Available at initial point of sale or, for added flexibility, you can choose to take on a **manager** contract any time up to 12 months after machine registration.

Your dealer will prepare the servicing contract and can tailor it to last up to a maximum of 10,000 hours.

By choosing **manager** Service and Repair Contract, not only are you assured of complete peace-of-mind for you and your business but also a higher residual value for your machinery, full dealer history and genuine AGCO Parts inside and out.

**For more information on **manager** Service and Repair Contracts speak to your Massey Ferguson dealer.**

\* **manager** Service and Repair Contract may not be available or may be market dependant. Please contact your Massey Ferguson dealer to check availability in your area.



# Customer Support

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## AGCO Customer Support... providing local service to the global brand

Massey Ferguson is a true global brand with machines operating all over the world, from revolutionary “little grey fergie” tractors to the latest high-tech tractors and combines. Have you ever wondered how we continue to provide industry-leading parts and service support to such a vast array of machines and technologies across the globe?

Behind every Massey Ferguson machine is the powerful aftersales support of AGCO’s Customer Support organisation.

Our main aim is to ensure that every machine - old or new - is fully supported locally, offering every Massey Ferguson owner:

- The best service in the industry
- Low cost of ownership
- A reliable and durable machine
- Minimum machine downtime
- A high resale value

### **State-of-the-art warehousing and logistics from AGCO Parts**

Of course, every Massey Ferguson dealer is fully backed-up by the AGCO Customer Support organisation which provides industry-leading parts supply through AGCO Parts’ state-of-the-art warehousing and logistics. With outstanding service levels, overnight delivery and inventory covering all Massey Ferguson machines - even those over 10

years old - we only ever supply genuine parts, and we guarantee the right fit, first time.

### **The right aftersales solution whatever the age of machine**

Whatever the age of Massey Ferguson machine, AGCO Customer Support has the right after sales solution to save time & money, providing appropriate, affordable and reliable servicing and maintenance solutions in every situation.

### **Practical local support where you need it**

AGCO places great emphasis on providing the best service to our Massey Ferguson dealers and this extends beyond the exceptional servicing and maintenance solutions and parts supply:

- Expert training and specialist equipment
- Advanced diagnostic techniques
- Information retrieval technology to communicate the very latest parts and service information
- Highly skilled technical support groups

With aftersales support from AGCO Customer Support, it’s not just about supplying a filter or doing an oil change. It’s about providing the best solution to our customers’ needs, wrapped up with industry-leading parts and service support.



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# Our promise to you

Our mission at Massey Ferguson, since the company was founded, has been to design, engineer and manufacture reliable, trustworthy and innovative tractors. Tractors that people recognise the world over.

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## VISION

Our vision for the world of agricultural machinery has always been clear; to produce worthwhile and innovative solutions for professional farmers feeding the world. Always recognisable, the Massey Ferguson brand of products signifies technological advancement, enhanced design, strict testing and quality manufacturing which is consistently trustworthy and hardworking.

## INNOVATION

We've always been one step ahead when it comes to innovation. Our founder, Harry Ferguson is proof of that.

Through continual questioning and analysis of customers' needs, our products are designed, tested and built to enhance productivity, efficiency and convenience, constantly pushing the boundaries of farm machinery.

From the simplest push of a button to technological innovations in engine and transmission efficiency, we strive to make life simpler for the operator.

## LEADERSHIP

Massey Ferguson is the most widely sold tractor in the world, making us the leaders in the agricultural arena. We've won awards for our class-leading technology and advancement in design and we're already driving ahead, environmentally and economically.

## QUALITY

It takes certain distinctive attributes to make a quality product. At Massey Ferguson, this distinction starts at the drawing board and doesn't stop. Every stage of manufacturing, from the building and testing process to sourcing the best components, demands excellence. Our products and services meet the most stringent standards allowing us to deliver our promises, confidently.

## RELIABILITY

We don't let a Massey Ferguson machine out of our sight until we are 100% sure it will perform to the high standards you expect. Only after rigorous and painstaking testing both in simulations and in the field, will we allow our products to leave the factory. Whatever you put your tractor through, day after day, season after season, we can guarantee we've already tested those limits and gone beyond them.

## SUPPORT

Agriculture can be a solitary business, that's why we make sure that you can get support whenever you need it and at crucial times of the year. Be assured of sustainability from more than 3,200 dealer outlets in over 140 countries and a comprehensive machinery distribution network, you'll be part of dedicated family of specialists who make it their business to give you genuine, top quality service support.

Equally, we won't let an opportunity slip through your fingers. If you have the commitment but not necessarily the financial resources to compete in today's market-driven climate then AGCO Finance could have the solution. Ask your local dealer for more information.

Financial options are market specific but can include leasing, hire purchase, contract hire and loan facilities.

## PRIDE

Here at Massey Ferguson, pride means many things to us. It's in everything we do and it shows. It's in our proud heritage, our unique product design and our ongoing support to our customers.

## COMMITMENT

We are deeply committed to delivering the highest of expectations and to build quality, reliable products with innovative features that are backed by the best support packages. Ultimately, we are committed to continuous growth and profitability for all, whilst recognising the needs of both large and small businesses through professionalism and quality.



Engine Performance		MF 8650	MF 8660	MF 8670	MF 8680	MF 8690
Max. hp @ 2000 rev/min	✚ ISO hp (kW)	270 (199)	295 (217)	320 (236)	350 (258)	370 (272)
Rated hp @ 2200 rev/min	✚ ISO hp (kW)	240 (177)	265 (195)	290 (213)	320 (236)	340 (250)
Max. torque @ 1400 rev/min	✚ Nm	1185	1295	1400	1492	1540

#### Max. power available @ PTO shaft

Maximum hp @ 1000 PTO rpm (OECD, accuracy +/- 2%)	OECD hp (kW)	225 (166)	250 (184)	275 (202)	300 (221)	320 (236)
Specific optimum fuel consumption	g/kWh	190*	190*	190*	190*	190*

#### Engine

Diesel, direct injection		AGCO SISU POWER e <sup>3</sup> SCR				
Type	litre/no.	84 CTA Turbo/Intercooled 8.4/6				

#### Transmission

Type	Dyna-VT with Power Control: Stepless, Continuously Variable Transmission with Dynamic Tractor Management (DTM)					
Field speed range	0.03-28 km/h Forward and 0.03-16 km/h reverse					
Road speed range	0.03-50** km/h Forward and 0.03-38 km/h reverse					

#### Power Take-Off (Rear)

Operation and control		Independent, electro-hydraulic, start/stop control on armrest and on rear fender, with headland automation				
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#### PTO speed @ engine rev/min

1000 rpm (21 spline shaft)	rev/min	2031				
Flanged shaft		●	●	●	●	●

#### Economy PTO

540 or 1000 rev/min	rev/min	1598				
Shaft diameter, 35 mm (13/8in)		●	●	●	●	●

#### Integrated Front Linkage System (IFLS)

Type		Independent, electro-hydraulic				
Linkage lift capacity	kg ○	5000				

#### Linkage and Hydraulics

Linkage control		Electronic control of draft, position, Intermix, height/depth, rate of drop, 'quick soil engagement' and Active Transport Control.				
Closed Centre Load Sensing (CCLS)		●	●	●	●	●
Max. oil flow at pressure	litre/min / bar	175/200				
Lower links		Cat 3 or 4, hook type				
Maximum lift capacity, at link ends,	kg ●	12,000				

#### Auxiliary hydraulics

Spool valves	Up to 6 electronic spool valves, 4 fingertip and 2 joystick					
Hydraulic couplers	'Decompression' couplers with connect/disconnect under pressure function					

#### Steering

Type- Standard	Hydrostatic, tilt/telescopic steering column					
with 'Speed steer'		○	○	○	○	○

#### Brakes

Oil-cooled, multi-plate discs, hydraulic actuation						
With power assistance		●	●	●	●	●
Parking brake		Switch-operated, independent 'park lock'				
Trailer brakes		Hydraulic, pedal-operated ○				
Air Brakes		○	○	○	○	○

# Specifications

Every effort has been made to ensure that the information contained in this publication is as accurate and current as possible. However, inaccuracies, errors or omissions may occur and details of the specifications may be changed at any time without notice. Therefore, all specifications should be confirmed with your Massey Ferguson Dealer or Distributor prior to any purchase.

4WD Front axle		MF 8650	MF 8660	MF 8670	MF 8680	MF 8690
Max steering angle	degrees	55				
'Hydralock' differential lock		●	●	●	●	●
Quadlink suspended axle		●	●	●	●	●

## Wheels and Tyres

Front		600/70R28		620/65R34	620/65R34
Rear		650/85R38		710/75R42	710/75R42

## Operator Area

### Cab

'Tiltable' bonnet		●	●	●	●	●
Standard equipment includes:		De-luxe 'flat floor' cab, side exhaust, tinted glass, opening side and rear windows, air conditioning, four-speed fan with heater unit, adjustable steering column, radio, CD player, speakers, aerial, automatic air suspended swivel seat with armrests, instructor seat, Opti-Ride cab suspension, Control Centre Display (CCD Datatronic 4; video provision and ISOBUS ready) Electronic linkage control, spool valves, 2 front and 2 rear work lights, flashing beacon, telescopic side mirrors with electric de-icing, Solar-panel on cab roof.				
Variable equipment includes:		Automatic climate control, super-deluxe swivelling seat, additional work lamps, 2 additional spool valves, hitch viewing mirror, 'Visio' roof, radio/CD player, High visibility hitch, OptiRide Plus cab suspension				

## Weights and Dimensions (approximate, less fuel)

Weight - Minimum, no ballast	kg	10300	10300	10300	10300	10300
Length, links horizontal	m	5.67	5.67	5.67	5.67	5.67
Wheelbase	m	3.10	3.10	3.10	3.10	3.10

## Height

Over cab	m	3.38	3.38	3.38	3.38	3.38
Turning circle - dia. less brakes	m	7.4/8.4	7.4/8.4	7.4/8.4	7.4/8.4	7.4/8.4

## Capacities

Fuel tank - AGCO SISU POWER e <sup>3</sup> SCR	litre	590	590	590	590	590
AdBlue tank	litre	30	30	30	30	30

- = Standard    - = Not applicable/available    \* = Manufacturer's testing  
 ○ = Optional    \*\* = Depending on market legislation    ⚙ = ISO TR14396

# MF 8600 highlights

Here's a quick reminder of some of the advanced features of the MF 8600 Series tractors that further enhance their place firmly within the high horsepower sector.

- 01** Massey Ferguson's new flagship tractor, the award-winning MF 8600 boasts the revolutionary 'AGCO SISU POWER e<sup>3</sup>', six cylinder, 370 hp 'SCR' engine as standard.
- 02** Smooth, curved lines gives the MF 8600 range a powerful, dynamic new look. The newly shaped chassis structure allows for tighter turning circles and the ability to handle heavy ballast and draft loads as well as very large implements.
- 03** Dyna-VT transmissions now work with Dynamic Tractor Management (DTM) for a harmonious and cost-effective working day.
- 04** New fully integrated Front Linkage System has a lift capacity of 5,000 kg and is available with two optional front hydraulic couplers.
- 05** Heavy-duty rear linkage provides 12,000 Kg lift capacity for seriously hard work. Available with a variety of CAT 3 or 4 ball ends.
- 06** QuadLink can be switched on or off to optimise quality of work and field performance whatever the conditions.
- 07** The new, ergonomically sound 'Panorama' cab provides 28% more room with integrated armrest for added comfort when working.
- 08** New OptiRide and OptiRide Plus cab suspension systems for added operator comfort and productivity.
- 09** The closed centre auxiliary hydraulic system has a 175 l/min pump flow, allowing for excellent hydraulic flow when you need it most.
- 10** A new front PTO is now available as standard across the range. With a choice of 6 or 21 splines at a PTO speed of 1000 rev/min.

