



200 - 255 HP  
147 - 188 kW

# MF 7700 S



**FROM MASSEY FERGUSON**

# MF 7700 S – Bodyscan your new profit centre

The new MF 7700 S is designed for ultimate efficiency and low cost of operation using a range of the latest straightforward and dependable technologies.

## Because we know that a tractor is a profit centre for your business

The MF 7700 S is a profit earner in any sector – right from the very first day.

Efficient drive-lines, low fuel consumption, long service intervals, impressive traction and lifting capacities together with low maintenance costs – the MF 7700 S simply makes your farming business more profitable.

And increasingly so with every hectare that you work.

## Ultimate comfort for more productive working day

Cab and front axle suspension improves driving comfort while the coloured dashboard offers better visibility throughout the working day and features the Setup & Information Screen (SIS) with ergonomic navigation.

## Low cost of operation

- AGCO Power Engines renowned for their low fuel consumption
- Maintenance free components
- Easy access to daily maintenance
- Increased maintenance intervals

## Efficient drive-lines bring higher productivity

Proven Dyna-6 powershift transmissions, plus the Dyna-VT transmissions deliver more power when it is needed most. Perfect engine/transmission combinations provide maximum performance





**Straightforward Fuse Technologies provide the latest user friendly precision farming and management solutions.**

The Fieldstar 5 terminal is standard and provides the latest user friendly Precision

#### **Farming Package**

- 9" touch screen terminal created to provide intuitive management of precision farming packages.
- 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 to the office.
- MF Connect telemetry for fleet performance and usage management.

**Ability to work faster with most demanding implements.** Up to four spool valves to the rear and two to the front, including front linkage, and power beyond installation, plus a high lift capacity hitch. The hydraulic system offers the ability to work faster with the widest implements while increasing versatility.

# MF 7700 S

# The Dyna transmissions

When it comes to drive power, we've really shifted up a gear

Whether your workload demands a semi-powershift or continuously-variable transmission, MF 7700 S tractors can be specified with the format that fits your farm. Dyna-6 options offer six powershifts, in each of four ranges, which can all be controlled from the armrest using the transmission control lever or the Multipad lever as an optional Multipad joystick.

The unique MF Power Control lever on the left side of the steering column provides a PowerShuttle feature, as well as an alternative method of transmission ratio changing and a de-clutch function. Shuttle response can be adjusted according to operator preference.

Massey Ferguson's Dyna-VT Continuously Variable Transmission continues to be one of the most popular CVT transmissions offering maximum productivity, efficiency and operator comfort.

## All Dyna transmissions benefit from:

- Exclusive and straightforward left-hand Power Control lever
- Pedal-free operation, which reduces operator fatigue and makes life easier on the operator
- Plenty of gears in the important 4-12 km/h working range, with good overlaps
- Autodrive as standard, taking automatic care of up- and downshifting to maximise versatility and output. Response point can be now automatic or adjustable according to desired engine rpm parameters
- Brake to neutral feature disconnects drive when the brake pedal is pressed
- Shuttle responsiveness can be adjusted according to speed of change required
- Progressive adjustment for Dynashift ratios
- Up to 2 cruise control speeds (depending on version)



### Multipad lever

The Multipad lever controls the rear linkage, PTO, headland management, spool valves and cruise control, as well as operating the transmission. All operations are easily to hand for greater comfort.



### Right-hand T-handle

Simply move the T-shaped transmission control lever forwards or backwards to change up or down through the 4 or 6 Dynashift ratios. To change range, simply press the range selection button as you move the lever.



### Simple, multi-function Power Control

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

- N Neutral
- De-clutch
- Forward drive
- Reverse drive
- Change up ratio
- Change down ratio



# Efficient

## The ultimate expression of productivity and innovation

Efficient is a combination of high-spec versatility and refinement dedicated to operators looking for a tractor with advanced features and functions in terms of ergonomics, comfort and automation.



Efficient is the medium specification package for the MF 7700 S Series, designed to help you work smarter and get better results. Choose from either Dyna-6 or Dyna-VT transmissions, a Command Control Armrest and mechanical or electronic spool valves

Dedicated to delivering increased productivity thanks to its key features, the Efficient specification will enable the operator to work faster, to a higher standard, with more accuracy, together with high levels of comfort, ergonomics and reliability. Stay in control of the most technologically advanced and demanding implements to take advantage of their increased productivity

### Standard Efficient features include:

- Control armrest with T lever
- Dyna 6 Autodrive – Enables automatic gear changes
- Two electronic fingertip valves
- Third and Fourth mechanical valves
- Hydraulic power beyond
- Fieldstar 5 Isobus terminal
- Three speed PTO 540/540eco/1000rpm
- Pivotin front fenders; Extended rear fenders

### Optional Efficient features include:

- Control armrest with multipad joystick
- Additional creeper gears
- Third and Fourth electronic fingertip valves
- Datatronic 4 additional to the Fieldstar 5 for tractor functions and headland management
- Suspended front axle
- Cab suspension
- 4t Front linkage
- Rear QuickHitch
- MF Connect Telemetry
- Auto-Guide and/or Precision farming packages
- 16 LED worklights





## Efficient cabs with optional multifunction loader joystick

Efficient specification tractors have the option of a multifunction loader joystick. The multifunction joystick adds front linkage control capability for even greater productivity when operating front- and rear-mounted implements.

Specifically designed for use with the Integrated Front Linkage System, the design of the unique multifunction joystick ensures smooth operation and incorporates transmission functions such as forward/reverse selection for silage packing and snow blading.

In addition the H3/H4 switches can be set to control additional functions such as rear linkage control, cruise control.

This multifunction joystick, which works seamlessly with the range of Massey Ferguson MF loaders, enables efficient materials handling, whether in the yard or in the field.



Settable function control switches or Loader operation 3rd and 4th loader function

Gear/range change

Forward/reverse shift

**'Multifunction' joystick main functions:**

- A. Lift front linkage or rear valve control +
- B. Lower front linkage or rear valve control -
- C. Front or rear valve control +
- D. Front or rear valve control -



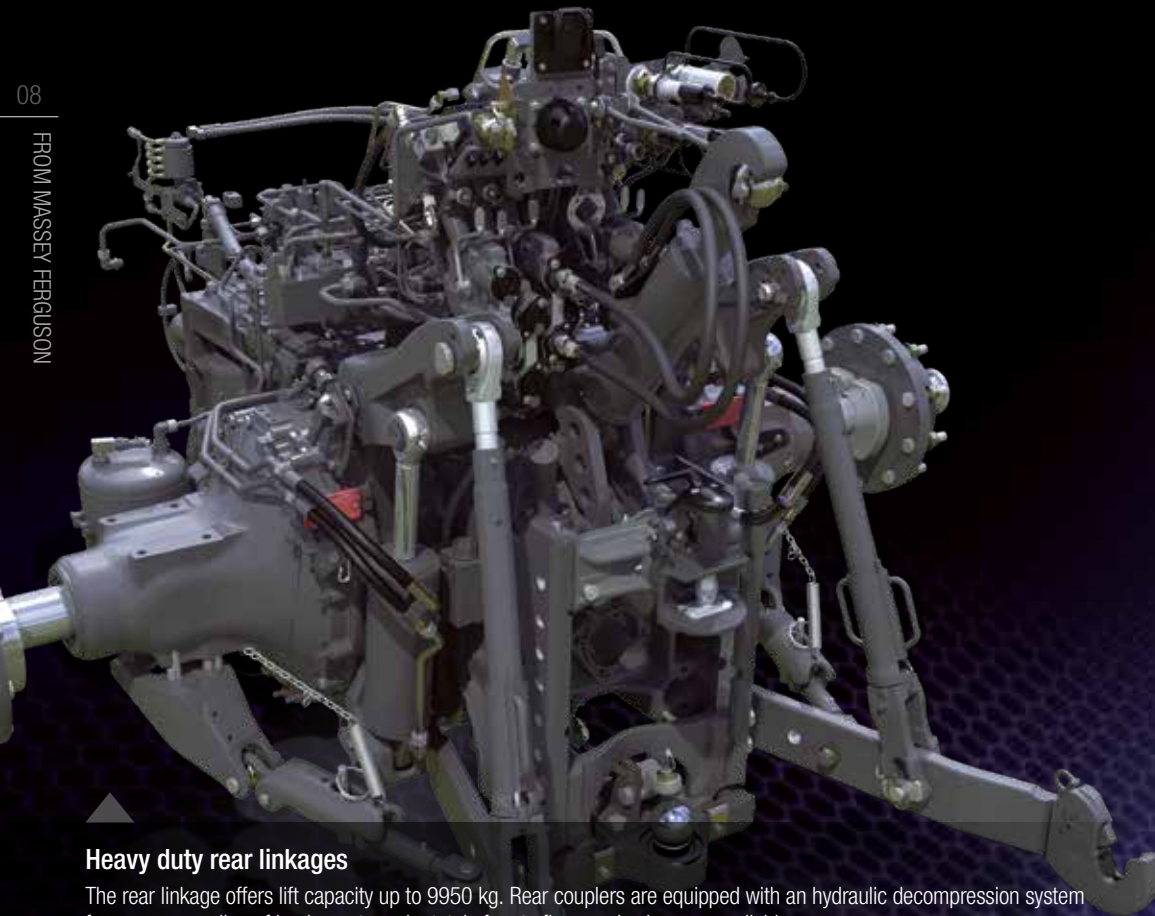
**Datatronic control centre display**

An option on Efficient tractors, the Datatronic 4 has a perfectly-positioned 7" colour monitor mounted to the operator's right. The Datatronic 4 displays important tractor information, records and shows memory functions and tasks, and oversees automation of headland management, Trailer steering axle management and Dual Control. The Datatronic 4 can be connected to a camera for improved visibility of rear mounted implements and trailers.

## Efficient cab with optional multifunction joystick and loader joystick







### Heavy duty rear linkages

The rear linkage offers lift capacity up to 9950 kg. Rear couplers are equipped with an hydraulic decompression system for easy uncoupling of implements and a total of up to five spool valves are available.

Automatic stabiliser installation has also been improved with a shorter chain for the simplest installation. A one way stabiliser each side offers extra reliability.

## Hydraulic energy to power the most demanding task

Modern implements are placing more and more demands upon the tractors that power them, which are asked to perform faster and respond better. The MF 7700 S comes with immense capability to easily handle heavy-duty applications with outstanding lift and drive capacities for the very latest implements.

Since 1936, we have always been industry leader when it comes to linkage power and hydraulic capability. Massey Ferguson's three-point linkage is the finest example of productivity, power and responsiveness, for the operator in the field. But we have never rested on our laurels when it comes to ensuring our systems meet and exceed the requirements of the very latest implements.

### Our engineers have responded with five hydraulic flow choices for MF 7700 S tractors:

MF 7720 S to MF 7726 S models are equipped with a closed-centre, load-sensing high-flow 110, 150 or 190 litres/min depending on model system for faster hydraulic response. This uses a variable displacement swash plate pump in addition to the load-sensing system found above. High flow at low engine speeds maintains high output with economy, as the variable flow pump only supplies oil on demand, while the full output of the large capacity pump is only put into action when required.



### Heavy duty Integrated Front Linkage System (IFLS)

A heavy duty Integrated Front Linkage System (IFLS) is available as an option and is designed to match the front suspension. Offering up to 4000 kg lift with dedicated front valve control, the IFLS features two spool valves and a free return line.



### Ultimate Draft Control

Massey Ferguson continues to lead the way in electronic linkage control (ELC). 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 wheelslip, reduced tyre wear and reduced fuel consumption whilst still maintaining greater output.



# MF7700 S



## Auxiliary spool valves

Between two and four electro-hydraulic valves are fitted as standard and up to five rear spool valves may be available if required. The Fingertip Spool Valve Management System enables complex equipment to be controlled with ease and precision.

- Rear lift capacity up to 9950 kg
- Optional Integrated front linkage with 4000 kg lift capacity
- Up to 6 spool valves :
  - 4 rear spool valves & free return with decompression levers
  - 1 independant front linkage
  - 2 independant front spool valves & free return



Conveniently located decompression levers



## 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 rear linkage and the implement.

## ATC and Suspended front axle

ATC operates in addition to the Massey Ferguson-designed suspended front axle to give exceptional stability when transporting or operating mounted equipment at speed, giving greater comfort, safety and productivity.

## Power Beyond

Built into the CCLS spool block is a Power Beyond facility that provides higher oil flow from a single valve.



MF 7700 S	Closed centre system			
Model	Transmission	110 l/min	150 l/min	190 l/min
MF 7720 S to MF 7726 S	Dyna-6	●	○	-
MF 7700 S	Dyna-VT	●	-	○

- Not available    ● Standard specification    ○ Optional

# Outstanding operation and performance to tackle any task - power take off

The MF 7700 S is a tractor which is powerful, full of torque and nimble capabilities. Perfect if you are looking for a machine with unbeatable power take off for outstanding operation and performance when working with the most advanced implements.

## PTO options for every application

Maximum power is activated with standard PTO speeds at 2,000 rpm. With the benefit of a 'constant power' band of up to 1500 rpm and the 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 – with optimum economy.

MF 7700 S Efficient versions are equipped with electrical PTO speed selection for convenience.

An additional fender-mounted engagement PTO start/stop button allows the PTO to be engaged from outside the cab linked to a memorised engine rpm activation. This offers a convenient and safe way to handle applications such as filling a slurry tanker where the operator needs to be outside the cab.

## Power with economy

For lighter duty work, '540 Eco' or '1000 Eco' PTO speed is achieved at around 1550 engine rpm, 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', for improved driver comfort and also helps to protect both implement and tractor from damage caused by inappropriate engagement.

## Front PTO (optional)

A six-spline front PTO which operates at 1,000 rpm is available on MF 7700 S tractors, and combined with the front linkage allows a wide range of additional implements to be powered, helping to reduce passes and improve efficiency. Benefit from real time savings – such as more than doubling output when mowing grass.



Command Centre PTO selector switches and Auto activation button.



Pillar mounted PTO speed selection controls and linkage controls.



# MF 7700 S





# The new touch of Precision Farming

## Powered by Fuse™ Technologies



**1**  
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 saving time and money.



**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**  
AgControl™ is the new Precision Farming solution from Massey Ferguson providing you with the most advanced and most efficient Section Control feature.

## Fieldstar 5

The new Fieldstar 5 terminal is designed 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 Fieldstar 5 features a larger 9 inch touch screen, easy-to-use and intuitive arrangement, similar to the latest generations smart-phones or tablets.

The New Fieldstar 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 7700 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

With TaskDoc™ all jobs' data can be recorded with minimum effort, documented in the field record and then analysed, all in the shortest amount of time.



# Standard and optional equipment by version

Whichever  
sector  
you're in,  
make the  
tractor your  
own

	Engine	Efficient
	6 cylinders AGCO POWER Tier 3	●
	Engine speed memory (1 or 2)	●
	Low idle engine speed	●
	Engine block heater	○
	Transmission	
	Power Control lever	●
	Right hand shuttle control	○
	T lever on Command Control Armrest	●
	MultiPad lever on Command Control Armrest	○
	Dyna-6 - 40 km/h Eco <sup>2</sup> - Speedmatching & Autodrive	●
	Dyna-VT 40 km/h Super Eco with Dynamic Tractor Management (DTM)	●
	creeper <sup>3</sup>	○
	Cruise speed memories	●
	Brake to neutral - Clutch effect	●
	ParkLock <sup>3</sup>	○
	Operator Environment	
	2 opening doors	●
	Standard air conditioning with manual adjustment	●
	Automatic air conditioning / climate control	○
	Visio roof <sup>3</sup>	○
	Roof hatch	○
	Automatic air suspended swivel seat	●
	Super deluxe air suspended seat with heater & pneumatic lumbar adjustment	○
	Auxiliary seat with seatbelt	●
	Mechanical cab suspension	○
	Active mechanical cab suspension	○
	FM Radio, CD, MP3, Bluetooth connection, USB & front auxiliary	●
	Telescopic double Angle Mirrors with Electric Adjustment and de-icing	○
	Speedsteer	○
	Fieldstar 5 - 9" touchscreen	●
	Radar and slip control	●
	Datatronic 4 with video capability	○
	Trailer steering axle management	○
	Dual Control	○
	Quick headland management	●

- Not available

● Standard specification

○ Optional

<sup>3</sup> MF7720 S to MF7726 S



<b>Operator environment</b>	
Headland Management System	○
<b>Technology</b>	
ISOBUS capability & connector	○
MultiPad with ISOBUS implement control switch assignment	○
Auto-Guide™ Ready	○
Auto-Guide™ - Trimble - Rangepoint	○
Auto-Guide™ - Trimble - Centrepont	○
AgControl™ 24 section control	○
AgControl™ - Variable Rate Control	○
MF Connect	○
<b>Chassis and Hydraulics</b>	
Electrical and mechanical controls of spoolvalves	●
Electrical controls of spoolvalves	○
Multifunction joystick	○
Loader ready tractor with Multifunction joystick (electrical control)	○
Loader live 3rd control with Multifunction joystick (electrical control)	○
Power beyond with couplers	●
Electronic linkage controls with Active Transport Control	●
Auto PTO function	●
Electric PTO speed selection	●
Auto 4-Wheel-Drive and Auto DiffLock functions	●
Telescopic stabilisers	●
Automatic stabilisers	○
Hydraulic top link on rear three point linkage	○
Integrated front linkage system	○
Integrated Front PTO	○
<b>Electrical Equipment</b>	
Automatic isolator switch	●
ISO 11786 signal connector	●
External lift control on fenders	●
External PTO start/stop control on fender	●
External remote valve control on fender	●
16 LED working lights (12 LED lights with Visio roof) <sup>2</sup> - Day time running LED	○
<b>Other equipment</b>	
Quadlink - Suspended front axle	○
Pivoting front fenders	●
Additional heater in cab	○
Hydraulic and Pneumatic trailer brake*	○
ABS socket dedicated to trailer brakes	○

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.

# Specifications

Engine
Engine Type
Number of cylinders/Number of valves/Capacity
Bore / Stroke
Aspiration
Injection type
Fan type - Transmission Dyna-6 & Dyna-VT
Maximum hp
Engine rpm at maximum hp
Maximum torque @ 1500 rpm
Max. power available @ PTO shaft (OECD, accuracy +/- 3%)
Fuel tank capacity
<b>Transmission Dyna-6</b>
Number of gears (Fwd x Rev)
Min. speed @ 1400 rpm
Number of speeds with creeper
Min. speed with creeper
<b>Transmission Dyna-VT</b>
Type
Field speed range
Road speed range
<b>Rear Linkage and hydraulics</b>
Lower links type
Maximum lift capacity, at link end
Hydraulic type & max flow - Option 1
Hydraulic type & max flow - Option 2
Maximum pressure
Maximum number of rear spoolvalves

	MF 7720 S	MF 7722 S	MF 7724 S	MF 7726 S
	AGCO POWER			
No. /No./ cm³	6 / 4 / 6600	6 / 4 / 7400		
/mm	108/120	108/134		
	Turbo with electrical wastegate and intercooler			
	Common rail			
	Vistronic	Vistronic	Vistronic	Vistronic
✪ ISO hp (kW)	200 (147)	215 (158)	235 (173)	255 (188)
rpm	1950			
✪ Nm	923	974	1030	1050
hp (kW)	180 (132)	195 (144)	210 (155)	230 (169)
Litres	430	430	430	430
Fwd x Rev	24 x 24	24 x 24	24 x 24	24 x 24
km/h	1.1	1.1	1.1	1.1
Fwd x Rev	36 x 36	36 x 36	36 x 36	36 x 36
km/h	0.26	0.26	0.26	0.26
Stepless, Continuously variable transmission				-
km/h	Forward : 0.03 to 28 km/h - Backward : 0.03 to 16 km/h			-
km/h	Forward : 0.03 to 40 km/h - Backward : 0.03 to 38 km/h			-
cat	Cat 3			
kg	9300/9600	9300/9600	9950	9950
l/min	Closed Centre Load Sensing 150 (Dyna-6) (OPT)			
l/min	Closed Centre Load Sensing 190 (Dyna-VT) (OPT)			
Bars	200			
	4 plus Power Beyond			



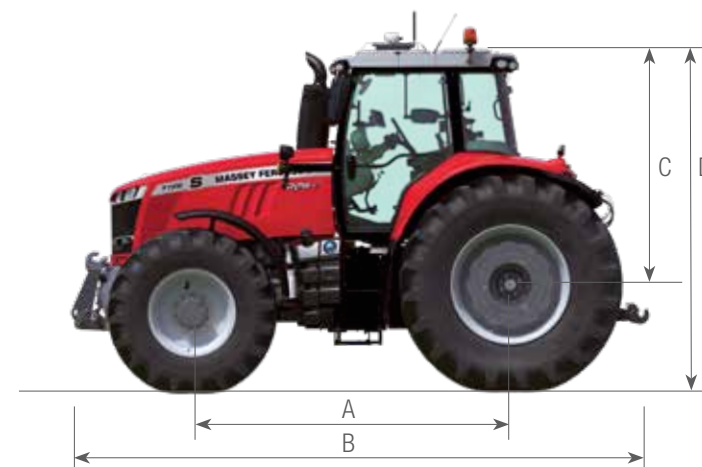
Rear Power Take-Off	
Engine speed at	540/540 Eco/1000/1000 Eco Dyna-VT
	540/540 Eco/1000 Dyna-6
	540 Eco/1000/1000 Eco Dyna-6
Shaft diameter	
Independent Front linkage and Front Power Take-Off	
Lower links type	
Maximum lift capacity, at link end	
Maximum number of front spoolvalves	
Engine speed at 1000 front PTO speed	
Wheels and Tyres	
Front	
Rear	
Weights	
Average minimum weight#	
Maximum Gross vehicle weight*	

	MF 7720 S	MF 7722 S	MF 7724 S	MF 7726 S
rpm	1870 / 1500 / 1900 / 1530			
rpm	1890 / 1520 / 2000		1890 / 1520 / 1930	
rpm	1520 / 2000 /1600		1520 / 1930 / 1600	
Inches	1 3/8" 6 & 21 splines			
Cat	3			
kg	4000			
	2			
	1920			
(Full range available. Please consult your Dealer)				
	540/65R30			
	650/65R42			
(May vary depending on configuration. Please consult your Dealer)				
kg	7400			
kg	14000			

ISO 14396 - Not available \*Depending on market legislation # Minimum average weight excludes ballast, additional options and is fitted with standard wheels and tyres

## Dimensions

		MF7720 S to MF7726 S	
		MF7720 S to MF7722 S Dyna-6 Dyna-VT	MF7724 S and MF7726 S Dyna-6
A	Wheelbase	mm	3.00
B	Overall length from front weight frame to rear linkage arms	mm	5149
B	Overall length from front linkage to rear linkage arms	mm	5868
C	Height at centre of rear axle to top of cab	mm	2204
D	Total height	mm	3129 3179





# MASSEY FERGUSON



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