

MF 440 FC



MF 440 FC-TC
Front cut mower – tool carrier,
for year-round versatility



MF 440 FC - use it all year round!

When you buy a front-cut mower you know that you are buying a machine that will be in the garage for a few months of every year, not earning its keep! But a front-cut mower has the potential to be so much more, if only it wasn't designed on a compact tractor chassis going backwards!

With this in mind, MF designers started with a 'clean sheet of paper' and came up with a totally new concept; a concept that has produced a machine that you are able to use 12 months of the year. So, whether you are a private owner, a contractor, a municipality/council/local authority or a regional or national organisation with large and varied estates to manage, your investment is more fully utilised with the innovative MF 440.

A Tool Carrier with infinite possibilities

Once the mowing is over, whether for the day or for the season, imagine being able to drop off the mowing deck, remove the lid of the collector, replacing it with cage sides perhaps and fitting a 6" wood chipper to the front end. Hook up the hydraulic PTO and off you go; turning those fallen branches into useable wood chips, making a mulch out of the dead bracken and generally helping clean up around the site. This is just one example of the possibilities that owning this machine could open up for you and your business.

When you need to do different jobs or offer additional services to your customers, buying another dedicated machine just adds to the cost of your business! And how do you really justify another machine for a shorter season than grass cutting?

The Dozer blade is equally at home in snow or soil



The MF 440 as a carrier with tipping body



So just what is the MF 440 FC-TC?

It's a:

Front-Cut Mower

Flail Mower

Hedge Trimmer

Wood Chipper

Cherry Picker

Water Bowser

High Pressure Washer

Sprayer

Spreader

Seeder

Sweeper

Snow Blower

Snow Blade

Salt Spreader

Leaf Blower / Collector

Carrier with Tipping Body

and more...

The MF 440 tipping body, with a capacity of 600 kg



The spreader attachment



Mowing, collection and tipping are all handled easily with the MF 440 FC



The highly efficient snow blower attachment



Probably the primary task - as a fast, effective front cut mower



Simple, efficient operation

Operating the MF 440 FC couldn't be easier. Everything has been designed to extract the best performance from the machine and the operator!

Sitting comfortably, with a commanding view ahead, major controls are placed at your feet (forward/backward control of the hydrostatic drive and brakes) or to your right hand side (Hydraulic PTO controls / Pressure Selector / Cruise Control / Table Lift / Collector Lift & Dump / Collect or Discharge Selector).



Comfortable, productive driving position

Depending on the implement attached to the hydraulic PTO you can run the system in 100 bar mode or 200 bar mode. 100 bar mode should be used to get any equipment moving, particularly high inertia items like a mower deck, a wood chipper or a snow blower. Once running you can build the engine revs up to working speed and if you are involved in a high speed, heavy duty application, switch across to 200 bar mode and get the very best performance from the machine. Mowing should always be done in 200 bar mode as this will ensure that the machine is on top of the cutting at all times. Like all MF tractors weight transfer plays an important role in the performance of the machine. When mowing, the automatic weight transfer works seamlessly with the forward motion of the machine. 80 to 100kg of weight are transferred from the deck to the front axle to help maintain traction. The

An aid to any application, the forklift truck-style axle design gives excellent manoeuvrability



front axle can oscillate 11° either side which, together with the 10° all round float of the deck allows the front of the machine and the mower deck to accurately follow ground contours, greatly reducing any possibility of scalping and helping you to maintain work quality.

The Cutting Deck

The cutting deck is made up of three, individual cutting units. These are powered by two hydraulic motors, one on each of the outer cutting units. The middle cutting unit gets its power from both outer units via a belt from each unit. This method provides control and speed regulation between each cutting unit. An individual unit is responsible for cutting the grass in its



The high speed cutting deck. Air enters at the centre to blast the grass cuttings up into the main crop elevator

path and discharging it through its own exit channel. This means that the grass is cut once or twice and not kept within the deck long enough to make "spinach"!

Through careful design, air is allowed to enter around the centre of the blade carriers which revolve at very high speed. This speed creates an air flow that blasts the cut grass up the outlet shutes, into the main crop elevator and on towards the collector.

To keep the overall length of the machine compact and manoeuvrable, the main crop elevator curves gently upwards, behind the driver, in front of the engine and into the collector. To ensure a smooth, continuous flow of material into the collector a "forage harvester" style blower, helps the transition from elevator to collector.



The Collection System

Sometimes you need to collect the grass and sometimes you don't. The MF 440 FC lets you choose, without leaving the seat to unbolt panels or open trap doors.

A simple lever in the bulkhead between the operator and the collector has two positions, 'Collect' and 'Discharge'. In the 'Collect' position, material from the deck is directed into the collector.

When the hopper is full, it can be emptied into a waiting skip, pick-up truck or whichever method you utilise for the removal of grass and waste.

In the 'Discharge' position any material coming off the deck is allowed to bypass the collector and is directed into a channel that enables the air flow and the grass to discharge out and down, onto the ground across the full width of the rear of the machine.



'Collect' or 'Discharge' grass cuttings by moving a convenient lever

Grass can be collected into the 1100 litre hopper and emptied at varying heights



Profitability through versatility

The MF 440 can be adapted as your needs change. Buy it as a mower first if this is your primary requirement, then build on its versatility by adding other accessories and components as the need arises or as budget is available.

The MF 440 FC is the solution to a host of problems...

Without being restricted by complicated shaft or belt drives, a wide range of equipment can be attached to the MF 440, powered by up to 40 hp of oil.

So you can tailor it to your current needs and up-grade later to cover new applications that you don't even know about yet!

Equipment attachment

On the front linkage

The easiest way to attach an item to the front linkage is via the Implement Quick Attach Frame.

This simple triangular adaptor is mounted on the existing front linkage and a mating adaptor plate is fitted to the implement.

Power is then provided by connecting an hydraulic motor to the 540 rev/min, 6 spline shaft and joining it to the implement. With the ability to throttle back on the engine and run in 100 bar or 200 bar modes, running the implement at the correct speed is simple too.



Quick attach mounting frame

Mid-mounted on the main body

Simply remove the lid of the collector and use its base as a container or platform.

– A cage is available that can be used to carry all manner of things; the chips from a wood chipper for example. It can even be

adapted to lift and lower a person. In this case the tipping control is isolated but the lift and lower remain active.

– Add some hydraulic tools, a rotary saw, a pruner, or a chain saw and you have the perfect “cherry picker”.

– The collector base can also be replaced with a mid-mounted accessory platform, to provide the ideal base for many other applications:-

– Hedge Trimming - Mount a 1m flail head on a long reach arm, plug in the hydraulic PTO and off you go - clean, tidy hedge rows and verges.

– High Pressure Washer - Mount a water tank with a high pressure washer system complete with lances and you have the ability to power clean pavements and walls (removing graffiti).

– Street Cleaning - Add a self contained Vacuum Tank complete with wander hose pick-up and you are ready to clean up almost anywhere!

You could utilise both front linkage and the mid-mount accessory platform

– A snow blower (or a more simple angled blade) mounted on the front linkage and a salt spreader mounted on the accessory platform provide clean useable drives, access roads and paths!



How would you use your MF 440 FC?

We know that there are many more applications that this machine could handle with ease. Talking to end users and potential users is already providing us with a list of implements and applications to consider.

If you already have some equipment that normally goes on a small tractor, it may even be possible to adapt it to work on the MF 440. With up to 40 hp of oil available there is enough power to drive most hydro-mechanical systems. Ask the question and we will try our best to say “yes”!

The Massey Ferguson 440 FC could provide you with the solutions that your business is looking for and some that your potential customers have yet to tell you about!

MF 440 Specifications

Engine

Type/Power	Diesel/40 hp
No. Cylinders	4
Capacity	1500 cm ³
Fuel tank capacity	40 litre

Transmission

Type	3 speed, hydrostatic
Control	2 pedals, Forward/reverse
4 wheel drive	Permanent, hydrostatic
Differential lock	Electro-hydraulic, acting on all 4 wheels

Wheels and tyres

Front	26-12.00-12 Turf
Rear	26-12.00-12 Turf

Brakes

Type	Disc, front
Parking brake	On main discs

Hydraulics

Main pump PTO	60 litre/min @ 100 or 200 bar
Auxiliary pump*	20 litre/min @ 170 bar

*Includes a manual pump for emergency use or testing

Front linkage

Type	Category 1
Control	Electro-hydraulic

Dimensions

Overall length	2702 mm
Overall width	1354 mm (less mirrors)
Overall height	1987 mm (less beacon)
Wheelbase	1397 mm
Track	1034 mm
Ground clearance	196 mm

Mower deck/collection system

1.5 m cut (60"); 3 Blades (Reversible/replaceable tips)
Cutting height - 3 cm to 10 cm (0.5 cm increments)
Automatic weight transfer with Front Linkage in mowing mode.
Deck Oscillation - 10° Front to back / 10° Side to side
Collector - 1100 litre capacity
Minimum tipping height from ground - 90 cm
Maximum tipping height from ground - 210 cm
Tipping offset from rear bumper - 80 cm
Collector automatically opens when tipping
Collect Grass or Discharge Grass operator selectable from seat

Operator environment

Hydrostatic steering. Deluxe seat with integrated armrests. Adjustable steering wheel. Roll bar.
Hour Meter / Fuel Gauge / Engine Temp Gauge / Oil Pressure Warning / Oil Temperature Warning / Diesel Pre-Heat Lamp.
Operator Presence Switch (Seat).
PTO Disconnect (Tank Emptying).
Rear View Mirrors.
Road Lighting
Warning Beacon





Design, testing and manufacturing

Massey Ferguson has a long tradition of innovation and engineering excellence. Based on continual questioning and analysis of farmers' needs, our products are designed, tested and built, using the latest manufacturing techniques, to enhance your productivity, efficiency and convenience.



World's largest distribution network

With a network of more than 5000 dealers in over 140 countries, Massey Ferguson can claim to have the world's most comprehensive farm machinery distribution network, dedicated to providing local service of the highest calibre.



Industry-leading parts support

Through leading edge technology, Massey Ferguson is proud to boast a full range of genuine AGCO Parts, supporting all Massey Ferguson machine ranges, from enhancements to new products to repairs for older 'heritage' machines and all complying with strict engineering quality standards. Backed by a comprehensive warehouse ordering system, you can be sure that when you insist on the AGCO hologram you will receive commitment from the best in the industry.



Financial support

Massey Ferguson retail finance schemes are widely available to help fund machinery purchase. With the emphasis on flexibility, these schemes are tailored to customer's specific business needs and to take account of cash flow and seasonal business cycles. Depending on the market, financial options include leasing, hire purchase, contract hire and loan facilities.

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.



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