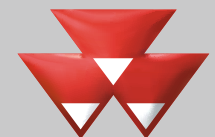


**MF 410/420**



**All-purpose utility tractors**

2 models: 55 and 64 hp



**MASSEY FERGUSON**

## Design heritage that means efficiency and peace of mind

Simple, straightforward and versatile. Whatever your farming or commercial operation, the MF 410 and MF 420 will help you to work more easily, more economically and more efficiently.



### Key Features:

- Designed to extend and enhance the Massey Ferguson range of high-value Utility tractors
- Perkins-powered, 55 hp 2-wheel drive and 64 hp 2- and 4-wheel drive models available
- Sturdy construction, yet compact and highly manoeuvrable
- Ferguson System hydraulics provide simple yet highly accurate linkage control
- Ideal tractor for smallholders, local authorities and other amenity uses
- Simple to use and maintain for easy, cost-effective operation
- AGCO parts and distribution back-up is second to none, giving added peace of mind in busy periods

*From the MF 35 and before that the TE 20, to the MF 135, MF 230 and MF 240, these new 3-cylinder models share so much of their heritage with this proud list of pioneering giants. With 3-cylinder tractor production exceeding 4 million units, Massey Ferguson is a true world leader in this class of tractor.*

Originally designed as principal workhorse tractors for everyday use, the industry has moved on but the MF 410 and MF 420 retain many of the core values of their predecessors; Ferguson System hydraulics, superb power-to-weight ratio, simple mechanical transmissions; easy, familiar operation and, significantly, high resale values.

The MF 410 and MF 420 also give farmers a new generation of EU-compliant tractors for a wide range of applications.

Equally at home as either the main tractor on a smaller acreage farm or smallholding, as the workhorse chore tractor on a larger farm or in orchards or large greenhouses, the MF 410/420 will quickly prove to be an invaluable asset.

Being rugged and reliable and backed by the world's largest dealer, parts and service network, whichever model you choose, it will also prove to be an outstanding long-term investment.



Above: Where it all began. The basic principals of the efficient Ferguson three point linkage

Inset: The highly successful MF 135



# A delight to drive

Being compact and manoeuvrable, with engines that give lots of low-speed pulling power and with light, positive hydrostatic steering, the MF 410 and 420 are a delight to operate. But don't be deceived by these nimble characteristics. Solidly-built and heavy enough to operate larger implements, both of these tractors can tackle heavier tasks in a farming or municipal environment.

## High-performance engines

These modern, engines have a host of features designed to improve performance and reduce noise and emissions.

The MF 420 also benefits from having a turbocharger, giving extra power whilst maintaining economy and durability.

## Straightforward transmissions

Strong, uncomplicated transmissions complement the engines' high torque back-up and power is transmitted smoothly and efficiently, with excellent speed overlap. The MF 410 has a robust 8 forward/2 reverse



Central gear levers, give a direct, positive gearchange. Note the conveniently placed gearbox oil filler.

speed gearbox, while the MF 420 has the benefit of an 8 forward/8 reverse speed mechanical shuttle, for faster loader work and easier manoeuvring in tight spaces.

Both transmissions provide a good range of working speeds to operate economically and efficiently in a wide range of applications. And with the creeper gearbox option, even specialist, low-speed applications can be handled too.



The MF 420 has an 8-speed shuttle gearbox as standard, with a left-hand mechanical lever for forward/reverse selection

Sure-footed traction is ensured by the transmission of drive through high speed, low torque halfshafts, with large epicyclic reduction units boosting torque to the wheels.

Available on the MF 420, the side-drive four-wheel drive option offers improved traction and braking, whilst maintaining an excellent turning circle and ground clearance.

A steering angle of 52° on two-wheel drive models and 55° on the MF 420 four-wheel drive gives a compact turning circle, so manoeuvring in tight spaces is never a problem. And with Massey Ferguson's famed hydrostatic power steering, control is precise and effortless too.

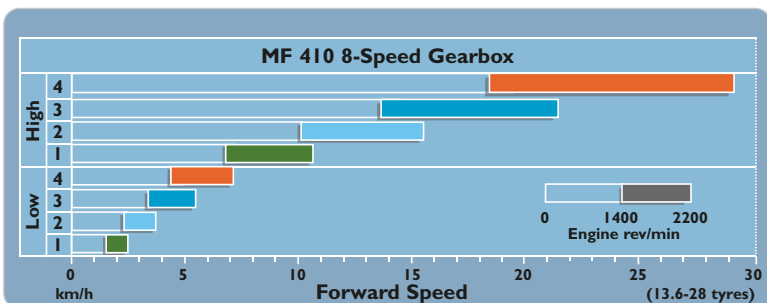
Progressive, fade-free braking is provided by the inboard, multi-plate, oil-immersed disc brakes. Hydraulically actuated, the brakes achieve excellent stopping power, with normal pedal pressure.



The 2-post safety frame folds easily, for working in low buildings or under overhanging branches



Rugged 4-wheel drive front axle features good ground clearance and a tight, 55° steering angle



MF 410 gearbox is a simple, rugged unit, with perfectly-spaced ratios, for efficiency and economy

## Tough, high-capacity axles

The rugged, box-type front axle of the two-wheel drive models, heavily reinforced at pressure points, is no less resilient than the four-wheel drive option and the rear axle's strength widens the range of applications that can be tackled by the MF 410 and MF 420.

## Comfort and control

### Legendary linkage, powerful PTO

*Straightforward, but accurate linkage control is assured on the MF 410/420 models thanks to the muscular Ferguson hydraulic system.*

First class lift capabilities derive from the unique Scotch Yoke pump at the core of the system, which supplies oil only when required by a hydraulic function. The three-point linkage is controlled by simple mechanical levers, conveniently-positioned to the right of the seat.

The hydraulic pump supplies up to 53 litre/min at 175 bar, so there's plenty of flow and pressure for either operating the three-point linkage or powering external equipment.

On the MF 410, external oil flow is controlled via a simple trailer tipping pipe, and on the MF 420 by either one or two (optional) spool valves.

### Tough PTO system

A rugged, no-frills, 'live' PTO is fitted on the MF 410, with 540 rev/min at only 1789 engine rev/min.

On the MF 420, operations requiring frequent PTO engagement and disengagement will benefit from the standard independent system, which runs continuously, with drive to the PTO shaft lever-controlled by a hydraulic clutch pack.

A control valve on the independent system allows gradual take-up of drive to the PTO shaft, protecting both implement and tractor from the shock of sudden engagement.

**Massey Ferguson has always placed great importance on the operator's comfort and safety in its tractor design and the MF 410/420 are no exceptions.**

Ease of operation, too, is a high priority and close attention has been given to the positioning and layout of the controls and gauges.

Apart from the obvious operator benefits, it has been shown time and time again that productivity increases noticeably when operator stress and fatigue are minimised.

The MF 410 and MF 420 both feature integral shields, which deflect engine heat and noise away from the operator; while substantial rear wheel fenders provide good protection from mud and groundwater.

Wide, self-cleaning steps lead to the comfortable platform area, whilst the large, adjustable rear-view mirror and horizontal exhaust both enhance the excellent all-round visibility.

The strong, two-post ROPS frame, fitted as standard, can be folded quickly for working in low buildings or any restricted-height situations.



Clearly laid out instruments, well-positioned controls



Safe, easy access to the spacious platform



Rugged three point linkage system; simple hydraulic and PTO controls

# The MF 410 and 420: a pleasure to own and to operate

Many factors go together to make the difference between a tractor that simply 'does the job' and a tractor you come to like and trust. To the core features of simplicity, manoeuvrability, power and economy, the MF 410 and MF 420 add quality, rugged reliability and the real benefit of being easy to own and operate on a day-to-day basis.

## Mechanically simple

From the simple gearbox design, direct mechanical levers and linkages to the tried and trusted 3-point linkage and hydraulic system, every component in an MF 410/420 has been designed and rigorously tested to give years of trouble-free service.

All of the controls are well-placed, with many grouped by function, for comfortable operation; whilst the pendant-style clutch and brake pedals follow the natural movement of the leg, to reduce pedal effort. Clear instruments and warning lights keep you in touch with all of the tractor's major

functions, helping to optimise fuel economy and performance and avoid unnecessary, potentially expensive down-time.

## Simple routine servicing

Being mechanically straightforward, service requirements are kept to minimum, with daily routines being easy and quick to carry out.

The engine features an under-bonnet pre-cleaner, so it's out of the main dust stream and requires emptying less frequently.

Being mounted horizontally, the hot exhaust is out of harm's way and means an unobstructed forward view from the operator's seat.

*And, of course, being fully 'CE-compliant', these tractors are kind on both the driver and the environment too.*



Compact and tough, with powerful hydraulics, the MF 420 4-wheel drive is an ideal loader tractor



The hydraulic pump for the steering system is externally mounted. Filters are positioned for quick service access.



Quickly removable side panels give easy access to air filter, radiator and engine service points

## A Complete package

No matter where in the world you are operating, nor how remote the location, Massey Ferguson's unrivalled service and parts back-up is very much part of the deal when you invest in one of its many tractor options. Technical training is given regularly at local level to ensure dealer technicians are fully capable of providing a first class diagnostics, repair and maintenance service.

*With a Massey Ferguson tractor, you're never on your own.*



The MF 410/420 is built in a modern factory using the most stringent quality control procedures

# MF 410/420 Specifications



## MF 410 2-WD

### Performance

Rated engine power @ 2200 rev/min	*55.0 ISO hp (39.5 kW)
Max. engine torque @ 1400 rev/min	*222 Nm
*ISO TR 14396	

### Engine

Make/Type	Perkins / I103C-33
No. of cylinders	3
Capacity	3.3 litre
Aspiration	Natural
Exhaust	Horizontal
Air cleaner	Dry element, with underbonnet air intake

### Transmission

8 speed partial synchro.	8 forward/2 reverse speeds
--------------------------	----------------------------

### Power take off

Type	Live, dual clutch, pedal-operated
PTO speed	540 rev/min @ 1789 engine rev/min
Shaft diameter	35 mm (1.38 in)
No. splines	6

### Steering

Type	Hydrostatic
Turning circle	6.5 m

### Brakes

Type	Oil-cooled discs
Actuation	Mechanical
Parking brake	Hand lever operated

### Hydraulics

Linkage functions	Draft, Position and Response Control
Max. oil flow	52.6 litre/min
Max. pressure	175 bar
Control	Trailer tipping pipe
Max. lift capacity, at link ends, links horizontal	1790 kg
Lower links	Cat. 1/2 interchangeable ball ends

### Operator area

Type	Semi platform
Seat	Spring suspension
Protection	2-post folding safety frame

### Wheels and tyres

Front	6.00-16 6PR Pressed
Rear	13.6-28 6PR Pressed

### Weights and dimensions

With full fuel, oil and water, 'standard' tyres	
Weight	2275 kg
Overall length	3410 mm
Height, over ROPS	2380 mm
- over folded ROPS	1810 mm
Wheelbase	2060 mm

### Capacities

Fuel tank	48 litre
Hydraulic system	42 litre

### Variable equipment

Spring suspension seat with armrests, single speed IPTO, spool valves, creeper gearbox, 2-axle trailer hitch, front weight frame with 8 x 27 kg weights, rear wheel weights, range of wheels and tyres.

## MF 420 2- & 4-WD

### Performance

Rated engine power @ 2200 rev/min	*64.4 ISO hp (48.0 kW)
Max. engine torque @ 1400 rev/min	*270 Nm
*ISO TR 14396	

### Engine

Make/Type	Perkins / I103C-33T
No. of cylinders	3
Capacity	3.3 litre
Aspiration	Turbocharged
Exhaust	Horizontal
Air cleaner	Dry element, with underbonnet air intake

### Transmission

8 speed partial synchro, shuttle	8 forward/8 reverse speeds
----------------------------------	----------------------------

### Power take off

Type	Independent
PTO speed	540 rev/min @ 1789 engine rev/min
Shaft diameter	35 mm (1.38 in)
No. splines	6

### Steering

Type	Hydrostatic
Turning circle - 2 WD	6.5 m
- 4 WD	7.0 m

### 4-wheel drive

Axle type	Mechanical, with outboard planetary final drives. Side drive
-----------	--

### Brakes

Type	Oil-cooled discs
Actuation	Mechanical
Parking brake	Hand lever operated

### Hydraulics

Linkage functions	Draft, Position and Response Control
Max. oil flow	52.6 litre/min
Max. pressure	175 bar
Control	1 single/double-acting spool valve
Max. lift capacity, at link ends, links horizontal	1790 kg
Lower links	Cat. 1/2 interchangeable ball ends

### Operator area

Type	Semi platform
Seat	Spring suspension
Protection	2-post folding safety frame

### Wheels and tyres

Front - 2WD	6.50-16 6PR Pressed
- 4WD	280/70R20 Pressed
Rear	13.6R28 Pressed

### Weights and dimensions

With full fuel, oil and water, 'standard' tyres		
	2WD	4WD
Weight	2275 kg	2575 kg
Overall length	3510 mm	3580 mm
Height, over ROPS	2380 mm	2380 mm
- over folded ROPS	1810 mm	1810 mm
Wheelbase	2060 mm	2120 mm

### Capacities

Fuel tank	48 litre
Hydraulic system	42 litre

### Variable equipment

Spring suspension seat with armrests, 2nd single/double-acting spool valve, creeper gearbox, 2-axle trailer hitch, front weight frame with 8 x 27 kg weights, rear wheel weights, range of wheels and tyres.



### **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.



### **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 customers' 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.



### **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.



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.

[www.masseyferguson.com](http://www.masseyferguson.com)



MASSEY FERGUSON is a worldwide brand of AGCO Corporation  
© AGCO Limited. 2005 | B-English/0505/10m | I3481/0505/70m

