

MF 400



World proven pedigree

9 models: 46 to 130 hp



MASSEY FERGUSON

A rugged, dependable workhorse, now even better!

Greater operator comfort, improved reliability and a new, modern look. The MF 400 Series now offers a range of upgraded features – some subtle, others more obvious – designed to provide higher levels of productivity in the competitive climate of today's farming.

Powerful, high-torque diesel engines and rugged, heavy-duty transmissions – as found throughout the Massey Ferguson tractor range – form the heart of the MF 400 Series, with two- or four wheel drive options available.

Simple to operate, easy to maintain and built to last, these versatile tractors have many features normally only found on more sophisticated machines. Designed and engineered to handle a wide range of tasks with ease, while total peace of mind is assured by Massey Ferguson's renowned worldwide service and parts network.

It's the power you need

Power units ranging from 46hp (ISO) to 130hp (ISO) are used in the class-leading MF 400 range: engines that have been proven time and again in the most demanding conditions, generating maximum torque at low engine speeds, thanks to their long stroke and direct injection.

Operators will be reassured by the ability of these engines to pull through the most testing situations and maintain constant speeds while the PTO is working. In addition, the torque rise, or 'back-up,' means increased load pressures can be handled without the need to change gear.

The MF 400 range uses three, four and six cylinder engines – either naturally aspirated or turbocharged, depending on the model – all of which are known for high output, fuel

efficiency and quiet operation. An invaluable option when working in dusty conditions is the newly-designed, over-bonnet, centrifugal pre-cleaner, through which air passes before being filtered.

This clever feature is self-cleaning and significantly reduces the need to clean the air filter itself. It also ensures optimum performance is maintained during operation, while prolonging engine life and efficiency. The two larger models in the range can also be supplied with an exhaust-aspirated air cleaner, which provides a performance boost where dust is a problem.



Model	Engine (cylinders)	Engine power (ISO) hp/kW	Max torque @ rev/min
MF 415	3	46/34	181/1350
MF 415 (narrow)	3	46/34	181/1350
MF 425	4	65/48	235/1400
MF 435	4	72/54	267/1400
MF 435 (narrow)	4	72/54	267/1400
MF 440	4	82/61	288/1400
MF 460	4	105/78	382/1400
MF 465	6	120/89	442/1200
MF 475	6	130/97	510/1400

- New curved rear fender
- Bigger, more comfortable platform and steps
- New electrical system
- More efficient hydraulics
- New look grille and headlights
- More substantial steering wheel
- Smoother throttle pedal arc



Standard transmission	Standard lift capacity
8F/2R	2100 kg
8F/2R	2100 kg
8F/2R	2500 kg
12F/4R	3200 kg
12F/4R	3200 kg
12F/4R	3200 kg

Uncompromising strength and durability

Performance-boosting transmissions

Immensely strong but uncomplicated transmissions ensure power is transmitted smoothly and efficiently, with excellent speed overlap and torque back-up.

The three and four cylinder models (in the 46hp to 82hp range) have a robust 8 forward/2 reverse gearbox, while the two six cylinder machines rely on a 12 forward/4 reverse set-up.

These transmissions provide four and six speeds respectively in the all-important field working range.



Heavy-duty axles

The four-wheel drive versions provide enhanced traction and safer braking, while the massive strength of the axles and heavy-duty bearings allow huge load pressures to be handled with ease – whether trailed or when imposed by large, mounted implements.

On the three and four cylinder models – the MF 460 excepted - power is delivered to the wheels by means of a side drive

shaft, whereas the MF 460 and the six cylinder machines have a central shaft – well-protected and recessed to ensure maximum ground clearance.

Performance on uneven ground is enhanced by the 11° axle oscillation – a standard feature on all models. The four-wheel drive versions are equipped with an automatic

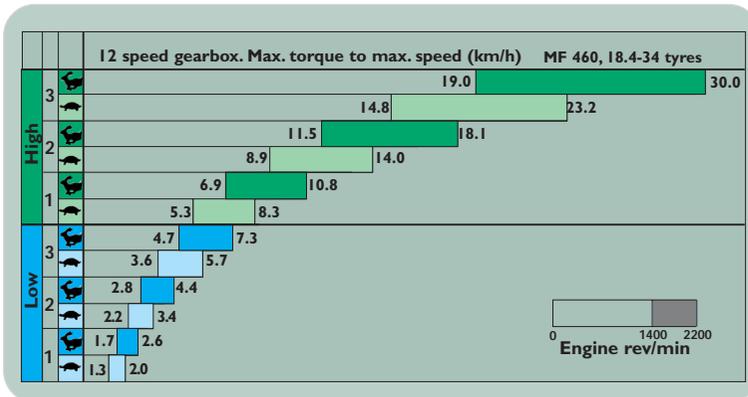
limited slip differential which locks the drive to the front axle to maintain traction in the event of one wheel losing grip.

The rugged, box-type front axle on the two-wheel drive models, being heavily reinforced at pressure points, are no less robust than on the four-wheel drive version and the massive strength of the rear axle widens the range of tasks that can be tackled by MF 400 Series tractors.

Sure-footed traction is assured thanks to the transmission of drive through high-speed, low-torque halfshafts with large, epicyclic reduction units, boosting torque delivery to the wheels. There is no compromise in manoeuvrability either. A steering angle of 52° gives a turning circle of 7.20m on the two-wheel drives (55° and 9.42m respectively on the four-wheel drive models).

These movements are achieved courtesy of Massey Ferguson's renowned Hydrostatic power steering system, which enables precise, effortless control in all situations.

Inboard, multi-plate, oil-immersed disc brakes provide smooth, progressive, fade-free braking. With its proven reliability and positive response, this well-established mechanical system is especially reassuring in transport and heavy-haul applications. A heavy-duty haulage hitch can be a useful option if this type of work is likely to be a regular occurrence.



A 330mm (13in) diameter cerametallic dual clutch transmits power to the drive (with the exception of the 46hp MF 415, which is fitted with a 12in diameter organic disc). Extremely hard-wearing, these cerametallic clutch plates are used throughout the Massey Ferguson tractor range, as the material has been proven to reduce inertia and promote smoother gear changes.



Excellent high-clearance capability allows the MF 400 to cope with both delicate and tough operations



Rugged standard width 4-wheel drive front axle

Comfort, simplicity and safety

Specialist applications

Dimensional variations are available within the MF 400 range, notably narrow versions of the MF 415 (46hp) and MF 435 (72hp), for use where width restrictions – such as in fruit orchards – are encountered frequently. These models can be fitted with an optional mid-mounted, folding ROPS bar.

There is now a factory-built high ground clearance version, with approximately 600mm clearance, which will be a welcome addition to the range for growers of large canopy vegetable crops, such as potatoes and brassicas. This version can revert to the standard specification with the minimum of adjustments, so increasing its versatility.



Legendary linkage, powerful PTO

The muscular hydraulic system fitted to all Massey Ferguson 400 Series tractors delivers straightforward but highly accurate linkage control via a two lever control quadrant.

The unique Scotch Yoke pump at the core of the system generates excellent lift capability, supplying oil only when it is required.

MF 400 Series 4 and 6 cylinder tractors benefit from a separate auxiliary hydraulic pump, supplying an additional 42 and 50 litres/min respectively for the standard double acting spool valve. This 3 position, 'spring to neutral' valve can be augmented by an optional extra unit.

A new selector valve on selected models allows oil from both pumps to be combined providing a maximum flow of 59 and 77 litres/min respectively.

The upgraded hydraulic oil filtration system reduces hydraulic turbulence, leading to increased reliability and prolonged component life.

A rugged, no-nonsense live-drive PTO features on all models, developing 540 revs/min at 1900 engine revs/min. However, operations involving frequent engagement and disengagement

will benefit from the independent PTO option, which utilises a rugged hydraulic clutch pack.

Massey Ferguson has always placed great emphasis on the comfort and safety of those operating its machines and the new features now introduced to the MF 400 Series include a number of improvements in this area.

Most noticeable is the new steel rear-wheel fender, longer and curved to provide the operator with greater protection. The platform area has also been enlarged, reducing noise and vibration and so boosting operator comfort. A re-designed instrument panel now incorporates a clear, easy-to-read layout with upgraded switches, while the new steering wheel has a more substantial feel to it.

Apart from the MF 415 and narrow versions, MF 400 Series tractors feature integral shields which deflect engine heat and noise away from the operator, reducing fatigue and stress and increasing productivity.

A robust two-post ROPS frame is available as an option, although the sun/rain canopy is a popular specification for many purchasers. A choice of seats, with optional arm-rests and seat belt are also available, while low-pressure clutch pedals and Hydrostatic power steering too, are standard.



Clearly laid out instruments (MF 435)



Ergonomically designed operator environment



Efficient Ferguson three point linkage

Heritage

Massey Ferguson's roots stretch back to the very beginning of farm mechanisation around the world. For many thousands of farmers on all five continents, their first tractor was a basic, tough, dependable workhorse, painted grey and built in Coventry, England.

Advancements in design, technology and manufacturing processes have transformed the tractor market over the years, but Massey Ferguson has remained in the forefront because of its commitment to quality, reliability and after-sales service.

Business development in recent times has seen greater emphasis placed on ultra-modern manufacturing facilities in both Brazil and Central Europe.

This operation embodies the traditional Massey Ferguson character and values, with tractor design being very much an

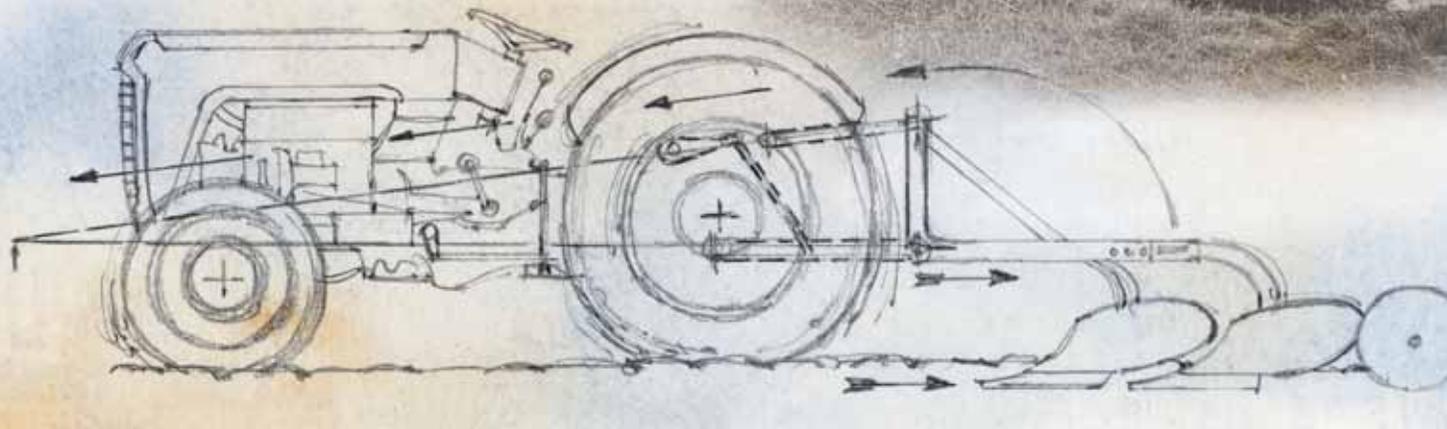
international affair, combining the expertise and experience of engineers from Europe and the Americas.

Indeed the qualities and product features that have defined MF's worldwide reputation for innovation and engineering excellence are being continually developed within this facility

– reflecting the future needs of the farming communities globally.

Straightforward tractors for everyday tasks.

Invest in Massey Ferguson's worldwide heritage.



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 400 Series is built in an ultra-modern manufacturing facility in Canoas, Brazil

MF 400 Specifications: ● = Standard ○ = Optional – = Not applicable/available

		MF 415	MF 415N	MF 425	MF 435	MF 435N	MF 440	MF 460	MF 465	MF 475
Performance										
Rated engine power	*ISO hp (kW)	46 (34.3)	46 (34.3)	65 (48.5)	72 (53.7)	72 (53.7)	82 (61.1)	105 (78.3)	120 (89.5)	130 (96.9)
	†DIN PS (kW)	45 (33.1)	45 (33.1)	62 (45.6)	70 (51.5)	70 (51.5)	80 (58.8)	102 (75)	115 (84.6)	125 (91.9)
	@ rev/min	2250	2250	2200	2200	2200	2200	2200	2200	2200
Max. torque @ rev/min	*Nm	181/1350	181/1350	235/1400	267/1400	267/1400	288/1400	382/1400	442/1200	510/1400
Maximum PTO power										
@ rated engine speed	†DIN PS (kW)	39.7 (29.6)	39.7 (29.6)	54.7 (40.8)	62.5 (46.6)	62.5 (46.6)	70.7 (52.8)	90.9 (67.8)	101.5 (75.7)	110.3 (82.3)
*ISO TR14396 †DIN 70020										
Engine										
Water cooled, direct injection diesel	Type	AD3.152	AD3.152	A4.236	P4001	P4001	P4001	P4001T	1006.6	1006.6T
	Aspiration	Natural	Natural	Natural	Natural	Natural	Natural	Turbo	Natural	Turbo
Capacity	litre	2.5	2.5	3.8	4.1	4.1	4.1	4.1	6	6
Number of cylinders		3	3	4	4	4	4	4	6	6
Transmission										
8 forward, 2 reverse, sliding spur		●	●	●	●	●	●	–	–	–
12 forward, 4 reverse, synchromesh		–	–	○	○	○	○	●	●	●
Power take-off										
Type		Single speed, live PTO. 540 rev/min @ 1900 engine rev/min. 35 mm (1 ³ /in) 6-spline shaft								
Independent PTO		○	○	○	○	○	○	○	○	○
540/1000 rev/min PTO		–	–	–	–	–	–	○	○	○
Linkage and hydraulics										
Functions		Draft control, Position control, Response control								
Max oil flow/pressure	litre/min / bar	17/210	17/210	17/210	17/210	17/210	17/210	17/210	17/210	17/210
Maximum lift capacity at link ends	kg	2100	2100	2500	2500	2500	2500	3200	3200	3200
Auxiliary hydraulics										
Max oil flow/pressure	litre/min / bar	17/210	17/210	42/170	42/170	42/170	42/170	50/170	50/170	50/170
Control		I double acting spool valve with spring-to-neutral facility (plus selector valve, MF 415/MF 415N)								
'Standard' wheels and tyres (Full range available, please consult your Massey Ferguson Dealer)										
Front - 2WD, Pressed wheels		6.00-16	6.00-16	7.50-16	7.50-16	6.00-16	7.50-16	9.00-16	9.00-16	9.00-16
- 4WD, Pressed wheels		12.5/80-18	7.00-18	12.4-24	12.4-24	7.00-18	12.4-24	14.9-24	14.9-24	14.9-24
Rear, Pressed wheels		14.9-24	14.9-24	18.4-30	18.4-30	14.9-24	18.4-30	18.4-34	18.4-34	18.4-34
Weights and dimensions (approximate, with 'standard' wheels and tyres, less fuel)										
Weight - 2WD/4WD	kg	2030/2210	2030/2210	2590/2870	2590/2870	2155/2866	2620/3040	3575/3940	3626/4210	4120/4520
Dimensions										
Overall length - 2WD/†4WD	m	3.84/3.84	3.47/3.47	3.98/4.13	3.98/4.13	3.60/3.60	3.98/4.13	4.25/4.32	4.56/4.63	4.56/4.63
Overall height										
- over exhaust/sun canopy	m	2.10/2.44	–	2.44/2.58	2.44/2.58	–	2.44/2.58	2.80/2.64	2.80/2.64	2.80/2.64
- over steering wheel	m	–	1.57	–	–	1.57	–	–	–	–
Wheelbase - 2WD/4WD	m	2.00/2.00	2.01/2.01	2.14/2.37	2.14/2.37	2.14/2.14	2.14/2.37	2.37/2.46	2.71/2.73	2.71/2.73
† Measured to front of weight frame										
Capacity										
Fuel tank	litre	57	57	75	75	75	75	210	210	210



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 3,200 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.



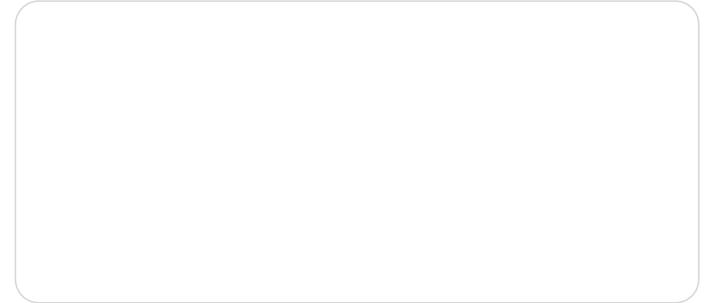
Financial support

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.

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