

MF 135 Tractor



1 out of every 4 tractors sold in the UK is an MF 135

MF 135 is Britain's most popular tractor. Here are the facts

Farmers all over Britain have acknowledged that the Massey-Ferguson 135 is the finest tractor bar none. Sales figures far outstrip those of any other make or model. The reason is quite simple — on any size of farm the MF 135 does more work, more economically than any other tractor in its class. It is remarkably versatile — getting maximum output from both mounted and trailed equipment, thanks to the advanced Ferguson System and revolutionary Pressure Control. It works fast — with Multi-Power you can easily plough an

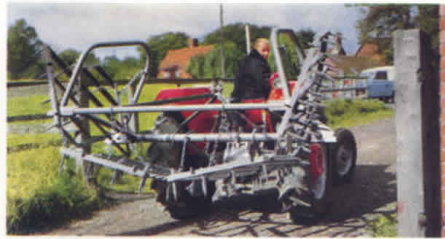
extra acre a day, boost output on baling and cart heavy loads on the road at high speed. The MF 135 is safe to use — MF engineers have spared no effort to protect the operator. And it is completely reliable — built from finest quality materials in the world's most efficient tractor factory — and backed by the finest Distribution organisation in the world. Whether you work a family farm or a big estate, you'll find the MF 135 brings you maximum profits from every acre, no matter what crop you are growing.



Advanced Ferguson System — the basic principle that puts MF tractors ahead of all others



MF were first in the field with the Ferguson System and have kept developing it ever since. Close-coupled 3-point linkage implements are quick to attach, handy to transport and work every corner of the field. With such implements the top link positively prevents the tractor rearing up and harming the operator. Two levers control all operations — but you only use one at a time.



Two-way Draft Control gives extraordinary wheelgrip for so light a tractor — converts maximum engine power into useful farm work. Weight is transferred from the implement to the rear wheels of the tractor. Working depth is controlled automatically through sensitive hydraulics. Close-coupled implements or long ploughs work equally well thanks to advanced design. Implement lift and drop together with draft control are all worked from a single lever.



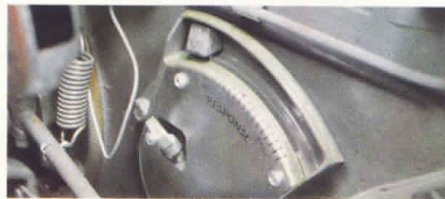
Position Control lowers the links to any desired height. It's invaluable when doing repetition work such as drilling post holes. Set the control lever stop to the desired position and every hole is made to the same depth. Also helpful when hitching heavy implements, or for controlling the working of semi-mounted equipment such as small levelling blades or rotary cutters.



Constant Pumping position provides ample power for external services. Use it to control front-mounted loaders and all kinds of equipment fitted with hydraulic motors. The normal Linkage Pump, together with the optional High Capacity Pump available on Multi-Power tractors, gives a combined oil flow of up to 9.6 gal/min. with a power output of 12.8 h.p. The advanced Ferguson System allows your MF 135 to tackle an unlimited range of farm jobs.



A special shrouded control quadrant below and to the right of the tractor seat operates Response Control. This regulates the rate of implement drop from very slow to fast. Once the desired setting is made, the operator continues to control the implement from the normal levers.



**Multi-Power, plus
45.5 h.p. diesel engine,
gives output another
boost**

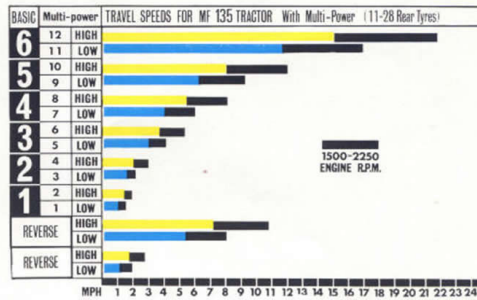


Multi-Power — Massey-Ferguson's exclusive change-on-the-go gear shift — gives twelve forward speeds and four reverse. In Multi-Power High range you get an extra 30% of speed — on the road you can travel at up to 20 m.p.h. Simply select the gear you want, then use Multi-Power to flick from High to Low at the touch of a switch. A "Hill-hold" in High range prevents the tractor from rolling back when declutched on an upward slope — a great safety device when handling heavy trailers.

But Multi-Power's uses are not confined to road work. With reversible ploughs it makes the tractor extra manoeuvrable. Using conventional ploughs you speed up as you run along the headland. And with any tillage equipment it enables you to work in a higher gear — dropping to "Low" range only as you pass through a tough patch.

Mowers, foragers and balers all give increased output with Multi-Power. Where the crop is thin you use the high range. If you strike a heavy swathe you drop to low range only as long as is necessary. On baling this means that bales are more evenly packed and better shaped. There is no stopping to change gear. You make maximum use of every hour of sunshine.

**Only MF tractors
have Multi-Power**



MF 135 brings real
efficiency and high
output to any size of farm

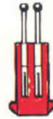


Underneath the compact dimensions and beautiful styling, the famous MF 135 tractor is rugged and powerful. The engine — an economical 45.5 h.p. 3-cylinder diesel — is built by Perkins to MF specifications. It has been proved in hundreds of thousands of tractors all over the world. The MF 135 is built at Coventry — at the world's most

modern tractor factory. Highly refined and automated production techniques and rigorous testing throughout, ensure the highest standards of quality and reliability. You can rely on your MF 135 for hours of solid work, week in, week out, right round the year.



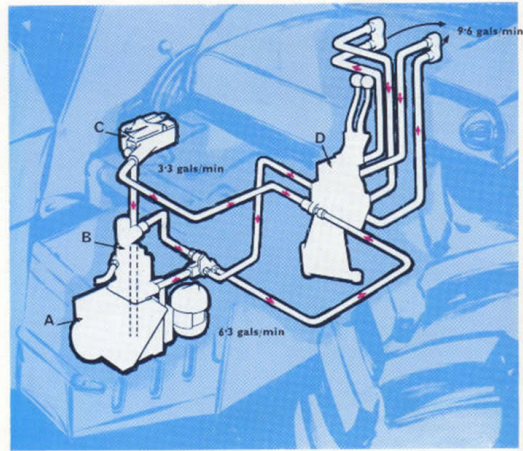
Advanced, precision hydraulics give greater work output to trailed or mounted implements and external services



A high capacity pump (B) is available as an optional extra on Multi-Power tractors. This delivers 6.3 gals/min which is fed to a single or dual spool valve (D) mounted at the rear of the left foot plate. Combining valve (C) can be fitted to the top of the transmission housing which combines the flow — 3.3 gals/min — from the linkage pump with that of the high capacity pump to give an output of 9.6 gals/min at the spool valve.

The spool valve can be set to either single or double acting. With the combining valve open a power output up to 12.8 h.p. is available and the increased flow can be used to speed up the operation of external services or to operate hydraulic motors.

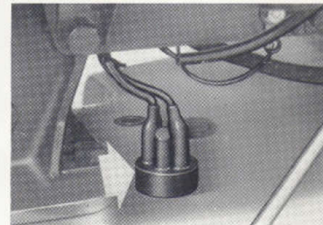
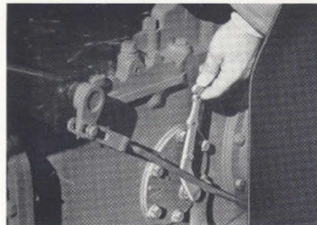
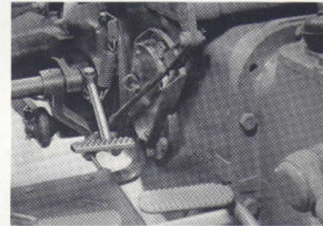
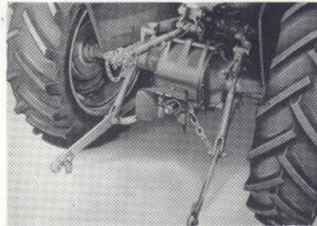
With the combining valve closed external services can be operated from the high capacity pump leaving the linkage pump free to operate the lift or Pressure Control services.



These standard features give wonderful value for money

An extra strong Category 1 linkage has a lifting capacity of 3100 lb. Top link is adjustable for length. Spring catch on levelling lever maintains the desired setting. Note the PTO guard with quick single bolt fixing.

Pressure applied to the differential lock pedal, at the rear of the right-hand footstep, ensures equal positive drive through both rear wheels when either wheel resists adhesion. The lock is disengaged when pressure is released.



The PTO gives 35 h.p. at 540 rev/min. Standard PTO speed occurs at 1684 engine rev/min., giving excellent torque "back up". Dual clutch model gives live PTO and hydraulics. Ground-speed PTO is incorporated.

All MF tractors are equipped with the original MF safety start device. The engine cannot be started with the tractor in gear — protects the operator and bystanders.

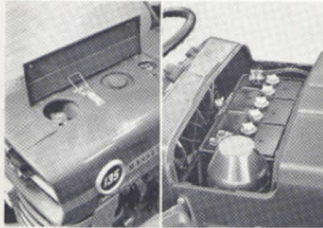
Tailor-made cabs and attractive styling designed for supreme comfort and safety



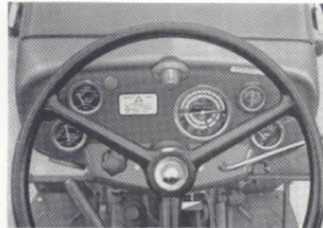
An attractive cab, specially designed by Massey-Ferguson, combines pleasing appearance with great comfort and convenience. The steel-framed fibre-glass construction is draught-free, rain proof and rust proof. The driver has full access to implements and has plenty of room inside. The top and side doors are easily removed in warm weather, while an optional roller blind with inset window provides maximum protection at the rear during the winter months.

The handsome styling of the MF 135 is completely functional. Strong flat-top fenders with built-in lights and hand-grips provide protection from mud on wet roads. They include two generous toolboxes. Panels in the bonnet allow easy access to fuel tank, radiator and battery. The radiator grille incorporates powerful headlamps in protective nacelles. A large mirror is provided for road work.

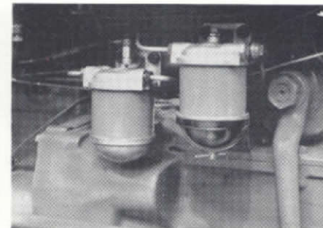
Neat, easily opened panels give access to all service points. Panel in bonnet top reveals fuel and water points, and panel in front of steering wheel gives access to battery. A panel in the front grille is also removable.



A complete set of instruments is illuminated at night. Cigarette lighter is optional. The tractorometer shows high and low speed ranges, together with standard PTO and belt pulley speeds.



The MF 135 is equipped with primary and secondary filters to ensure complete reliability of the injection system. Any water is quickly drained away from the agglomerator bowl.



An adjustable plough lamp is fitted to the right-hand fender, ensuring more accurate evening work and proving invaluable when there is a tight schedule to be met.



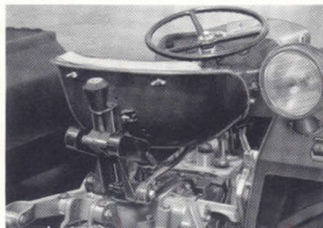
Road regulation lights are incorporated. Side and tail lights are fitted to the fenders. Twin headlamps are built into the radiator grille. Number plate lamp and reflectors are also included.



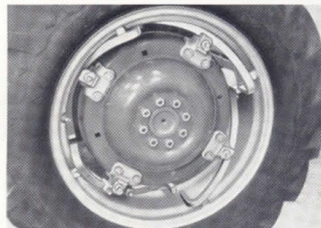
The handbrake operates on both rear wheels for parking. Twin footbrakes can be locked together for road work or applied independently to assist turning.

**Optional equipment
to add extra convenience
and versatility**

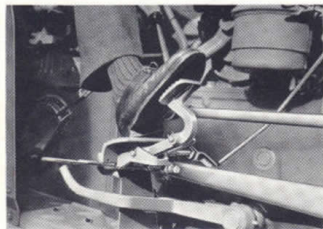
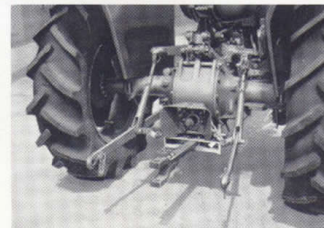
A spring suspension seat can be fitted, giving the operator complete comfort on rough jobs. Ideal for use when cultivating on clods, or for fast travel on rough roads. Gives a really smooth ride.



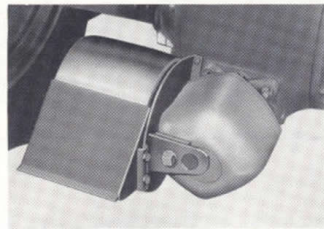
Power Adjusted Variable Track rear wheels give immediate track changes without effort. Track can be changed from 52" to 64" initially, then from 60" to 72" by interchanging wheels.



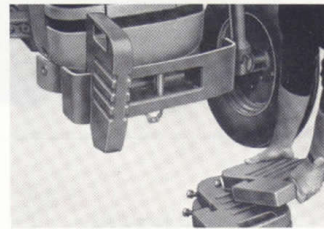
A swinging drawbar, adjustable for both length and height, gives correct hitching for PTO driven implements. Essential for use with Pressure Control. Extremely strong and rigid.



A foot throttle is especially useful for loader work, leaving the hands free. Foot pedal over-rides the hand throttle setting, but engine speed returns to hand setting when the pedal is released.



The MF 135 will saw wood — or even milk the cows in an emergency. This 9" pulley gives belt speeds of up to 3098 ft/min. with the dual clutch model. Regulation safety guards are provided.



Front end ballast is easily adjusted with this weight-frame/tow hitch. Handy "jerry-can" weights are simple to handle and bolt on securely in seconds. Recessed towing mouth provides useful front hitch point.



On all farm jobs MF 135 outpaces every other tractor in its class

The MF 135 switches quickly and easily from job to job. It's ideal for accurate row-crop work such as potato planting and ridging. The advanced Ferguson System transfers weight from implement to tractor — the bigger the load the better the grip.



PTO-driven equipment is handled at its full capacity, thanks to 35 h.p. at the PTO shaft. Both mounted and trailed equipment can be used — the adjustable swinging drawbar ensures that trailed PTO driven machines can be correctly hitched for smooth, efficient running.



Using exclusive Pressure Control, the MF 135 enables you to bring full Ferguson System efficiency to existing trailed implements and four-wheel trailers. There's no need to scrap existing equipment which is in good order — you can make it earn its keep better than ever.



The Automatic Hitch enables the operator to hitch up without leaving his seat. A heavily loaded trailer can be hitched without effort — and the hitch speeds operations such as manure spreading, where constant hooking up and unhooking may be required.



Using Constant Pumping on the hydraulics, all kinds of external services can be brought into play. Loaders work faster. Trailers can be tipped quickly. And the MF 135 will operate a wide range of new machines using hydraulic motors.



... these are the reasons why the MF 135 is Britain's most popular tractor

MF 135 Tractor Specification

General Note: All data on this page is specific to the MF 135 diesel, dual clutch model. (Single clutch model also available).

ENGINE

AD3.152 three cylinder direct injection diesel made by Perkins to Massey-Ferguson specifications:

Capacity	152.7 cu. in.
Bore	3.6"
Stroke	5"
Compression ratio	18.5:1
Starting aid	Thermostat
Injection pump	Distributor type
Governor	Mechanical
Max. Gross H.P.	45.5 at 2250 r.p.m.
Max. Torque	119 lb./ft. at 1300 r.p.m.

TRANSMISSION

Clutch. Dual type with 11" primary and 9" secondary driven plates. Self ventilating for cool running.

Gearbox. Sliding spur type with planetary reduction unit giving "High" and "Low" ranges to provide 6 forward, 2 reverse gears.

Multi-Power (optional). Doubles basic gear range giving additional 30% faster speeds in each gear and so providing 12 forward, 4 reverse gears. Multi-Power HIGH ratios obtainable by hydraulic clutch engagement of extra set of constant mesh gears.

Final Drive. Conventional differential with spiral bevel gears.

Differential Lock. Fitted as standard.

Road Speeds. On 11-28 tyres (22.9" rolling radius) :-

N.B.—Multi-Power LOW speeds are almost identical to those of the basic range.

Engine r.p.m.	BASIC RANGE		MULTI-POWER HIGH	
	500	2250	500	2250
Gear	m.p.h.	m.p.h.	m.p.h.	m.p.h.
1	0.3	1.5	0.4	2.0
2	0.5	2.2	0.7	3.0
3	0.9	4.1	1.2	5.4
4	1.3	6.0	1.8	7.9
5	2.0	9.0	2.6	11.8
6	3.7	16.4	4.8	21.7
Reverse 1	0.5	2.0	0.6	2.7
Reverse 2	1.8	8.1	2.4	10.7

Power Take-off. Drive proportional to engine speed or to ground speed.

Shaft: diameter 1 3/8". 6 splines, annular groove and transverse hole for various couplings.

Ground Speed: Shaft revolves once for 20" travel (clockwise in forward, anti-clockwise in reverse).

Engine Speed: Engine/PTO reduction of 3.12:1 gives 540 PTO r.p.m. at 1684 e.r.p.m. and 721 PTO r.p.m. at 2250 e.r.p.m. Power available: 35 h.p. at 540 r.p.m. (British Standard speed).

Belt Speed: 3098 ft/min. at 2250 e.r.p.m.

STEERING

Recirculating ball mechanism. 2 1/2 turns from lock to lock.

BRAKES

14" x 2" drum brakes, two shoes per drum. Operated together or independently by twin foot pedals. Handbrake fitted as standard.

In accordance with the Company's policy of continuous improvement to its machines, alterations in the specifications of machines may be made at any time without notice and the Company accepts no responsibility for any discrepancies which may occur between the specifications of its machines and the descriptions thereof contained in its publications.

HYDRAULICS

Functions. Two-way Draft Control, Response Control, Position Control, Pressure Control (optional).

Linkage. Cat. 1 three-point linkage standard. Dual Cat. 1 and 2 linkage optional. Top link screw adjustable. Lift force with lower links horizontal 3100 lb.

Linkage Pump. Four cylinder piston type, constant running. Single control valve on suction side. Delivery 3.3 gal./min. at 2250 e.r.p.m. Oil supply of up to 1 1/2 gals. available from sump for external rams.

Auxiliary System (Multi-Power model only). Comprises optional High Capacity pump with oil cooler. Supplies oil for external services (including hydraulic motors) through spool valves; one spool or two spool, double acting, convertible to single acting.

High Capacity pump is located adjacent to linkage pump and driven from PTO shaft. Requirement for Multi-Power is diverted through priority circuit to cooler, leaving 6.3 gal./min. available for external services. Combining Valve allows High Capacity and Linkage Pump outputs to be united to give total 9.6 gal./min.

Hydraulic power available: High Capacity pump only, 8.4 h.p.; combined pumps, 12.8 h.p.

Oil cooler is located between tractor radiator and front grille.

WHEELS AND TYRES

Track Adjustment Front 48" to 80". Rear 52" to 76".

Tyre Sizes 6.00-16 4 Ply Front; 11-28 4 Ply Rear.

DIMENSIONS, WEIGHTS, CAPACITIES

Length	118"	Weight	
Width (normal track)	64"	(with fuel, oil, water)	3200 lb.
Height (over steering wheel)	54"	Fuel Tank	8 1/2 galls.
Ground Clearance (min.)	12"	Cooling System	18 pints
Wheelbase	72"	Engine Sump	11 1/2 pints
Turning Circle (without brakes)	19' 3"	Transmission	6.6 galls.

EQUIPMENT SUMMARY

Basic	Optional/Accessories
Lights, plough lamp, reflectors	Cab
Differential lock	Multi-Power
Comprehensive instruments, rear mirror	Auxiliary System (Multi-Power models only)
Hydraulics and Cat. 1 linkage	Combining valve
6 forward, 2 reverse speed transmission	One-spool or two-spool valve
Dual clutch/Live PTO	Pressure Control
Ground speed PTO	Spring suspension seat
Handbrake	P.A.V.T. rear wheels (11-28)
Cushion seat	Foot throttle
Vertical exhaust	Front frame and weights/Tow hitch
Alternatives Tyres	Belt pulley
4.00-19 4 ply	Dual Cat. 1 and 2 linkage
6.00-16 6 ply	Swinging drawbar
10-28 4 ply	Automatic hitch
11-28 6 ply	Horizontal exhaust
	Dual rear wheels (11-28 4 Ply tyres)
	Front and rear wheel weights
	Cigarette lighter



YOUR MF DISTRIBUTOR

is just a 'phone call away

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H.A.S.

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