

Massey Ferguson  
**2720**



**MF**  
Massey Ferguson



# High Specification High Output To Meet Your Needs

Ploughing, Cultivation, P.T.O work, Drilling, Fertiliser application, Transport.

That's why you need a tractor.

Farm sizes have increased. More must be produced with less labour. The trend toward Winter Cereals has made Autumn a peak work period. Seed beds must be prepared faster.

That's why you need a higher output tractor.

Reliability. Pulling power. Economy. P.T.O. power. Speed. Traction. Powerful hydraulics. Minimum compaction. Operator comfort. Serviceability. After sales service.

That's what you need from a higher output tractor.

Components designed for high horsepower use. 147 DIN horsepower from an economical 6-cylinder Perkins engine. Power that gets through to the wheels and p.t.o (127 p.t.o. horsepower at rated engine speed). A modern 16-speed gearbox with synchromesh and Speedshift change-on-the-move. Choice of 2WD or 4WD for added traction in difficult conditions. The best hydraulics in the business give smooth operation and big lift capacity (6298 kg at lower link ends with links horizontal). Even weight distribution and flotation tyres. "Supercab" comfort. Well laid out controls. External access to many major adjustment points and components. Automatic top-ups reduce daily maintenance to a minimum. The back-up of Britain's biggest and best trained distributor network.

That's why you need the MF2720.

Take a closer look. See how this high specification tractor can give the high output you need. Then talk business with your MF Distributor.







# Purpose-built for reliable power

Unlike most tractors, the MF2720 is completely new. MF realized that it was not sufficient to merely stretch and modify existing designs, as this would only result in an unreliable machine as components passed their limits. So our engineers (using their vast experience) went back to the drawing board.

The result is a high horsepower tractor that really is built for the work expected of it. And more. All mechanical assemblies are "oversized" and designed to withstand stresses far greater than anything they will actually face.

The MF2720 is a tractor you can rely on. It will be there when you need it and will minimize your repair bills.

## Perkins A76.3544 c.i. engine

Specially designed for agricultural application, the new charge cooled engine is immensely strong. By cooling the turbocharged air before it enters the engine, extra power is achieved without affecting reliability.

High power output and work rate are achieved with minimum fuel consumption, so operating costs are reduced.

The excellent lugging ability brings many advantages. Optimum speed of operation, reduced gear changing, less transmission wear, minimal wheel slip and soil smearing, reduced tyre wear.

Therefore, work will be completed faster. The operator will not tire so quickly, allowing him to work longer hours. The tractor will have a longer life. Running costs and soil damage will be kept to a minimum.

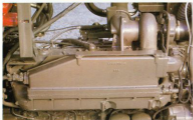
Time is also saved thanks to the simple servicing and maintenance requirements. And when parts are needed, you will find that they are quickly available. Down-time is minimised.

## Large rear mounted fuel tank

A capacity of 213 litres (47 gallons) eliminates refuelling stops, allowing you to work continuously all day and so increase productivity. The large filler prevents mess or fuel waste. Access steps allow you to refuel easily and safely.



1. Exceptional power with economy and reliability from the Perkins A76.3544 c.i. engine.
2. Air is water cooled between turbocharger and engine for extra power.
- 3 & 4. Centrifugal cleaner and screen protects air before it enters the dust element dry air cleaner.
5. Very high maximum torque is achieved at low engine speed.





### Hydraulically actuated diaphragm clutch

Clutch actuation is smooth and effortless. It is self-adjusting and automatically topped-up with hydraulic oil, so maintenance is eliminated and you will not need to buy special fluid.

Even pressure is applied to the disc. There are no hot spots or service adjustments. You will find this clutch reliable, durable, and easy to use.

### New 10-speed synchronesh gearbox

The Mark II gearbox benefits from new gear ratios. This enables more precise matching of speed to working conditions for optimum output and fuel economy. In addition, wider helical cut gears combine with other durability improvements to ensure safe, reliable transmission of power.

The main gear lever selects from eight synchronised ratios, while a fascia mounted electrical push button provides instant change-on-the-move Speedshift between high and low ranges. This trouble-free electro-hydraulic system operates without declutching, so there is no break in

transmission and traction is maintained. You can pull effortlessly through difficult conditions without damage to soil or tyres.

A second lever gives instant reverse selection in each of the first 10 gear speeds.

### Hydraulically engaged 4WD

4 wheel drive is hydraulically engaged on-the-move. You just press a button. The added traction gives more efficient use of engine power, and you can work in adverse conditions without the worry of getting stuck. Safety is also improved on steep hills.

### Fully protected central drive shaft

The simple drive line is very reliable and easy to maintain with no universal joints or telescopic shafts. Good ground clearance prevents crop damage. You will not waste time unwrapping it, and

will not lose money from damaged crops. The central position also gives unrestricted movement of the front wheels so manoeuvrability is excellent.

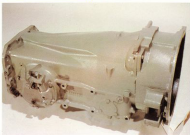
### Hydraulically operated brakes

The large double-faced wet disc brakes are efficient and safe. The system is automatically topped-up with hydraulic oil. Therefore you will not need to buy special fluid or spend time maintaining the system.

### Differential lock

To engage the rear differential lock (and front axle on 4WD), the lock pedal need only be depressed once. To disengage, depress a second time. You will find it easy and convenient to operate.

1. Diaphragm clutch
2. New gear ratios give excellent ground speed range.
3. Exceptionally strong gearbox housing
4. A single lever selects main gears.
5. Push-button Speedshift and 4 wheel drive engagement.
6. Good lock and ground clearance on 4 wheel drive.
7. Ideal weight distribution.
8. Epicyclic reduction units reduce torque loadings.





#### Power take off

Drive to the fully independent p.t.o. is engaged by a hydraulic clutch pack. There is no need to disengage the transmission clutch. You will increase output by engaging and disengaging on the move.

Versatility is assured with interchangeable shafts operating at 540 and 1000 rev/min.

#### Dual element hydraulic pump

The gear-type hydraulic pump operates at two levels. A low pressure element supplies the Speedshift, differential lock, p.t.o. and 4WD clutches. There is no obstruction to any unit.

The high pressure system gives positive steering, controlled trailer braking, efficient external hydraulics, and powerful linkage.

This system ensures safety and a higher work output.

#### Lower link sensing (Draft Control system)

With soil engaging implements, draft forces are measured through the lower

links. This gives accurate depth control with maximum traction. You will benefit from better quality work and increased output.

#### Position Control

Linkage height is accurately controlled when using non-soil engaging implements.

#### Intermis

When using semi-mounted implements, Intermis prevents the draft control system from over-reacting. Accurate contour following and maximum traction are assured. You need not worry about ploughing too deep and will achieve increased output plus higher quality work.

#### Dual spool valves

External single or double acting

rams can be operated from within the cab. You can match existing or new machinery without extra cost. Implements can be operated quickly, efficiently and in comfort.

#### Integrated hydraulic trailer braking

Hydraulic brakes fitted to trailed equipment can be operated progressively in conjunction with the tractor braking system. You will increase output by driving faster, with the knowledge that safety is assured.

#### Linkage

The heavy duty rear linkage will comfortably handle heavy implements, while the hooks save valuable time and manual effort. Attachment is achieved quickly and easily from the driver's seat.

9. 540 and 1000 rev/min p.t.o.
10. Powerful hydraulics.
11. Hydraulic pump.
12. Simple hydraulic controls.
13. 75mm air valve.
14. Option of front p.t.o. and linkage.



**WARNING**

SEVERE LIFTING CAPACITIES DO NOT APPLY TO THIS MODEL. ALWAYS USE THE  
DESIGNATED P.T.O. AND  
LOAD CHAINS

ALWAYS DISengage P.T.O.  
BEFORE PUT IN USE



# Integral "Supercab" for a full day's work

The MF2720 is built to give continuous high output. So if the operator is to get the most from his machine, he too must work effectively, all day long. To do so, he must be kept comfortable and alert. The MF2720 "Supercab" does just that.

Because the MF2720 is a completely new tractor, the cab is an integral part of the design. It is not just an add-on. It is purpose-built and incorporates the features that will dramatically increase productivity on your farm.

## Efficient access

Access to the cab is quick and easy. The large rear-hinged door can easily be closed from the operator's seat. Large self-cleaning footsteps are safe, and prevent excess mud getting into the cab.

## Super comfort seat

The operator's seat can be adjusted for weight, height, and reach. Folding armrests also help to increase comfort and reduce fatigue.

## Fatigue-free operation

All controls are within easy reach of the operator's right hand, leaving the left hand free for the power steering.

Clear instruments and warning lights provide information to aid effective operation whilst avoiding costly, unnecessary downtime.

## All-round visibility

Slim corner pillars and a massive glass area of 47239 cm<sup>2</sup> (7336 in<sup>2</sup>) ensure excellent visibility. Safer, more accurate work is assured.

The large flat windscreen reduces reflection inside the cab and together with the tinted glass, this minimises eye

strain.

Gas struts support the large opening rear screen. Access to the attaching cables for the hook linkage is easy, and attachment/detachment of implements is quick and safe.

## Perfect environment

The operator has complete control over the cab environment. No matter what the weather outside, temperature inside the cab can be adjusted as required. A heater and air conditioning with refrigeration unit are standard.

Both fresh and recirculated air is filtered. The cab is also pressurised to prevent dust ingress.

Noise and vibration are eliminated by the rubber mounting blocks, and thick acoustic insulation.

1. Easy access
2. Fully adjustable seat
3. All-round visibility
4. New, easy to read instrument console
5. Controls grouped to the operator's right hand side
6. Full air conditioning





# Thoughtful design to minimise down-time

The MF2720 has been designed to work unflinchingly season after season, year after year. It is built to give optimum output at all times.

But any tractor must be serviced and maintained, and that means lost working time. It is vital, therefore, to complete these tasks as quickly as possible. So Massey Ferguson have made sure that this non-productive time is kept to a minimum.

## Fast, efficient service

Great care has been taken to simplify access to the hydraulic components. The hydraulic filter, pump, control box and rams are all external. The same applies to the I.P.T.O. clutch pack, which can be easily serviced through the hydraulic filter side cover.

This thoughtful design will reduce your down-time to a minimum. Productivity will be maintained, and large savings will be made on labour charges.

## Automatic top-ups

The clutch and brake reservoirs are automatically topped-up with hydraulic oil, thus reducing daily maintenance requirements to a minimum.

## Simple periodic maintenance

All components requiring routine maintenance are easily accessible.

- Radiator filler cap on top of the hood, easily reached by means of a footstep and grab handle.

- Engine oil dipstick, filler and filter, located on the right hand side.

- Transmission oil dipstick, accessible from the rear of the tractor and located in the centre housing.

- Fuel tank filler is wide, with a footstep and grabhandles giving easy access.

- Cab air filter is removable from outside the cab roof.

- Battery tray slides out from behind the cab footsteps.

- Air cleaner, air conditioning radiator and dehydrator, oil cooler (hydraulics), radiator and windscreen washer bottle are all directly behind the quick-detach radiator grille.

You will find daily service and maintenance quick and easy to accomplish. This will not only save valuable working time, but will actually

encourage the operator to complete these routine jobs. Therefore, your machine will be kept in peak condition, and its working life extended.

## Unbeatable back-up

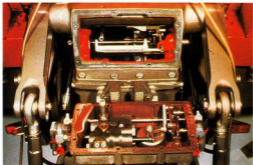
The Massey Ferguson distribution network is the most comprehensive available to UK farmers. With around 200 outlets nationwide, you are within easy reach.

Parts availability is second to none. Your local MF Distributor carries a large stock of MF Powerparts, and also has the backing of our UK Central Parts Operation. This is the largest agricultural parts complex in Europe, stocking over 90,000 parts lines.

Distributor staff are trained at the MF International Training and Development Centre near Stoneleigh, Warwickshire. The largest of its kind in the world, it incorporates workshops, lecture rooms and MF's own farm for practical instruction.

When you buy an MF 2720, the back-up of Britain's biggest, best trained Parts and Service network is all part of the deal.

1. Externally mounted pump and filter.
2. Easy access to hydraulic adjustments.
3. Large dry air filter.
4. Sliding battery tray.
5. High quality components are carefully checked.



# MF2720 Specification

## PERFORMANCE

Rated engine power @ 2400 rev/min	**108kW (147 DIN hp)
Max engine torque @ 1600 rev/min	**158 BS hp
Max pto power @ rated engine speed	149.3 diahm (362 bft/l)
@ 2400 rev/min	194.7 kW (127 hp)
@ 1500 rev/min	187.9 kW (118 hp)
@ 1000 rev/min	190.9 kW (122 hp)
*DIN 70030	
**BS AU 141 ambient conditions	
†Manufacturers estimate	

## ENGINE

Make	Perkins
Type	AT6 3544 charge cooled
No. of cylinders	6
Injection	Direct
Bore	96mm (3.9 in)
Stroke	127mm (5.0 in)
Capacity	5.9 litre (354 in <sup>3</sup> )
Compression ratio	16.1
Aspiration	Turbocharged
Starting aid	CAV thermostat
Cooling	Water
Air cleaner	Thermostat controlled
	Dual, dry element with warning light and buzzer

## ELECTRICS

Voltage	12V negative earth
Battery	2 x 105Ah
Alternator	55A with integral voltage regulator

## CLUTCH

Type	Diaphragm spring, single plate dry clutch
Diameter	356mm (14 in)

## TRANSMISSION

Number of gears	16 forward, 12 reverse
Speedshift/synchronesh with manual shuttle	
Final drive type	Inboard epicyclic gears

## ROAD SPEEDS

At rated engine speed with 20.8/16-38 tyres	Gear	km/h	Mile/h
	1	2.13	1.32
	2	2.84	1.76
	3	3.27	2.03
	4	4.35	2.70
	5	4.58	2.85
	6	6.10	3.79
	7	6.36	3.95
	8	8.48	5.29
	9	7.39	4.59
	10	9.85	6.12
	11	11.31	7.03
	12	15.07	9.36
	13	15.85	9.85
	14	21.13	13.13
	15	22.01	13.68
	16	29.35	18.24

## POWER TAKE-OFF

Type	Fully independent
Operation	Hand lever actuating hydraulic clutch
Speeds	540 rev/min @ 1992 engine rev/min 1000 rev/min @ 2090 engine rev/min 35mm (1.38 in) 540 rev/min - 1900 rev/min 6 square splines 21 involute splines
Shaft diameter	
Number of splines	

## HYDRAULIC SYSTEM

Functions	Draft Control, Position Control, Intermix, Auxiliary Hydraulics
Maximum output - main pump	high pressure 53.3 litre/min (11.7 gal/min) @ 175 bar (2538 lb/in <sup>2</sup> )
	low pressure 21 litre/min (4.6 gal/min) @ 17 bar (240 lb/in <sup>2</sup> )
Maximum lift capacity (at lower link ends, links horizontal)	6298 kg (13884 lb)

## AUXILIARY HYDRAULICS

Maximum output	53.3 litre/min (11.7 gal/min) @ 155 bar (2250 lb/in <sup>2</sup> )
Maximum pressure	175 bar (2538 lb/in <sup>2</sup> )

## BRAKES

Type	Oil cooled single plate discs
Lining material	Organic
Diameter	356mm (14 in)
Operation	Hydraulically actuated
Parking brake	Disc brake mounted on gearbox output shaft

## STEERING

Type	Hydrostatic power with tilting telescopic steering column
------	---

## WHEELS & TYRES

2WD Front -	11 00-16 8PR
Rear -	20.8/16-38 8PR
4WD Front -	16.9/14-28 8PR
Rear -	20.8/16-38 8PR

## TRACK ADJUSTMENT

2WD Front -	1.58-2.08m (62-82 in)
Rear -	1.72-2.12m (68-83.5 in)
4WD Front -	1.70-2.13m (67-83.5 in)
Rear -	1.72-2.12m (68-83.5 in)

## CAPACITIES

Fuel tank	213 litre (47 gal)
Hydraulic system	85 litre (18.7 gal)

## WEIGHTS & DIMENSIONS

2WD Weight:	
Front -	1980kg (4365 lb)
Rear -	3320kg (7319 lb)
Total -	5300kg (11684 lb)
4WD Weight:	
Front -	2140kg (4718 in)
Rear -	3330kg (7341 lb)
Total -	5470kg (12069 lb)
Overall length (links horizontal)	5.09m (200 in)
Overall width	2.36m (93 in)
Overall height over exhaust	3.12m (122 in)
Wheelbase	2.73m (107 in)
Ground clearance under chassis	495mm (19.6 in)

## SUPER DE-LUXE Q CAB

Construction	Monocoque, welded steel structure
Lining	Acoustic foam-backed vinyl and rubber floor covering
Visibility	47329cm <sup>2</sup> (7336 in <sup>2</sup> ) glass area Tinted glass as standard 2 speed, self parking windscreen wiper and washer Rear screen wiper and washer Heater with 2 speed blower and air conditioning Both fresh and recirculated air is filtered Cab is pressurised to prevent dust ingress
Temperature control	
Air filtration	

## STANDARD FEATURES

147 DIN hp engine.  
16 speed Speedshift gearbox.  
2 speed independent p.t.o.  
Hydraulic system with 53.3 litre/min (11.7 gal/min) capacity dual element pump.  
Hydraulically actuated, oil cooled disc brakes.  
High specification, low noise Q cab  
Two double/single acting spool valves.  
Swinging drawbar.  
Differential lock. (Also front axle on 4WD).  
Hydraulic trailer brakes.  
Cast PAVT wheel centres.

## OPTIONAL EQUIPMENT

Fully independent front pto.  
Hydraulic 3-point front linkage.  
Third double/single acting spool valve.  
Front weights.  
Combination clevis auto hitch.  
Front fenders - 4WD



# MF

## Massey Ferguson

NOTE: This leaflet is published for world-wide distribution and the availability of equipment shown either as basic or accessory varies according to the territory in which the machine is to be used. Details of equipment available in your area can be obtained from your Massey Ferguson Distributor/Dealer. 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. The Company accepts no responsibility for any discrepancies which may occur between the specifications of machines and the descriptions thereof contained in its publications.

© Massey-Ferguson-Perkins Limited, 1982. All rights reserved. HAS Printed in England

2013/0982

