

Massey-Ferguson

304 V





Perkins engines: willing and tireless

All M-F tractors are fitted with Perkins engines which, because of their proven reliability and strength, guarantee a high performance, even in very difficult working conditions.

The engine range, 3 cylinder, 3 cylinder turbo and 4 cylinder, offers the farmer the chance to choose the model which best suits his needs.

In addition, there is now available a new compact and powerful Perkins AT3.152 3 cylinder turbo engine capable of developing 63 HP (BS) 58 PS (DIN) at 2250 r.p.m.

Introduction

Massey-Ferguson are world leaders in the agricultural tractor market. This prestigious position has been attained and consolidated by a business policy carried through with steady determination: to design, plan and manufacture tractors which always fulfil the specific and varied requirements of agriculture throughout the world.

Vineyard tractors

Even in the «specialist» tractor sector, M-F have successfully applied this philosophy, offering the most comprehensive and versatile range on the market.

Specialisation in specialisation:

This is what is meant by a range which comprises 13 models, divided into 3 production ranges:

- 3 Vineyard models
- 5 Special models
- 5 Fruit models

All designed to meet exactly the most specialised requirements in horticulture, viticulture and fruit growing. The Vineyard tractors, in particular, have the narrowest track and lowest width of the whole range. The low-profile mudguards, streamlined body and lower driver's platform make this series ideal for rowcrop work and in close-planted vineyards.

The rear track is adjustable according to model and horse power:

- MF 354 V, from 0.74 m to 0.97 m
- MF 364 V and 374 V, from 0.84 m to 1.23 m

With a minimum width of 0.98 m on the smallest model and 1.12 m on the other two, the Vineyard tractors will work in the most restricted spaces without any damage at all to crops, with manoeuvrability and efficiency already fully proven in extreme conditions, as in the vineyards of France, Spain and Germany.



The new transmission: efficient and versatile

All tractors in the Vineyard range are fitted with the new spiral bevel gear transmission with improved synchromesh; the result is a very silent, easy gear change, particularly in the transport mode.

Because it handles so well, the new gearbox, with 12 forward and 4 reverse gears, including the basic model, is a big step forward from the point of view of flexibility and reliability.

Two other versions complete the gearbox range to make the tractors perfectly suitable for all operating conditions:

synchromesh shuttle + underdrive unit = 24 forward and 12 reverse

synchromesh shuttle + creeper unit = 24 forward and 12 reverse

The synchromesh shuttle increases the versatility of the Vineyard tractors providing greatly improved manoeuvrability; all forward gears can be reversed at a touch, enabling the tractor to be used in the most restricted spaces, even in the toughest conditions, thus increasing efficiency and productivity.

The underdrive unit gives a 17% reduction in all forward gears allowing the ideal ratio to be selected with the maximum precision for all types of work. The 30 k.p.h. speed range is sub-divided into 24 gears: 1 every 1.25 km. This makes it possible to find the best combination of torque and speed to suit all conditions.

The creeper unit adds 12 «creeper» gears, giving a 5x reduction in each of the basic forward gears; it is essential for all implements which require high PTO power and the slowest possible forward speed for pulling trailers at grape harvest time and for pruning.

High capacity power take-off

Vineyard tractors spend a lot of their time working with the PTO. It is therefore essential to have a high capacity PTO and this is available on these tractors because of the very simple drive line design. The standard speeds of 540 and 1000 r.p.m. are obtained at 90% of the engine speed, to make even better use of the power unit.

Ground speed PTO is available on the basic machine for special applications.

Finally, an economical 750 r.p.m. PTO is available to order. This gives a saving in fuel of up to 20% and is recommended for use with implements which require a low energy output.



Four wheel drive: power immediately available

All models in the Vineyard range are available with four-wheel drive. The four-wheel drive version has a steering angle of 50° with a 12° axle side swing; there is little loss of manoeuvrability in all conditions and especially when making quick turns from one row into the next.



Hydraulic system: strength and versatility

In order that a tractor may tackle efficiently the tasks which it is called upon to undertake daily, it must be able to rely on a powerful and highly flexible hydraulic system.

The hydraulic system fitted to the Vineyard tractors has been given increased power and now has an output of 43 l/min capable of lifting up to 2600 kg.

The hydraulic flow supplies the rear quick-attach spool valve, which can operate powerful attachments like front loaders without having to use additional hydraulic motors.

The hydraulic lift system has Position control, Draft control, Intermix and Float. A dual element hydraulic pump is available to order with an output of 27 l/min to the lift system and 38 l/min to 3 additional hydraulic spool valves within reach of the driver's seat.



Driver's platform: comfort and safety in the field

In designing the driver's platform Massey-Ferguson have concentrated their efforts on the driver's comfort and safety. The gear levers are positioned well forward on the platform which makes access to the driving seat extremely easy. All levers and controls are within

easy reach of the driver's hand, while the up to date, comprehensive instrument panel enables all the tractor functions to be closely monitored. The spiral bevel gear train guarantees a high degree of silence and vibration. The result is more relaxed driving which drastically reduces operator fatigue and increases productivity.



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MF 354 V

Power	47 HP (BS) 45 PS (DIN)
Engine	Perkins 3-152 2500 cc
STD Transmission	12 FW + 4 RV
Rear track	0,74-0,98 m

Specifications



MF 364 V

Power	63 HP (BS) 58 PS (DIN)
Engine	Perkins T.3-152 2500 cc Turbo
STD Transmission	12 FW + 4 RV
Rear track	0,84-1,23 m



MF 374 V *

Power	68 HP (BS) 62 PS (DIN)
Engine	Perkins 4-236 3870 cc
STD Transmission	12 FW + 4 RV
Rear track	0,84-1,23 m

* \$ 45,800 + GST.
+ \$ 12,800 + GST (cab model)
\$ 58,600 + GST.