



**MASSEY FERGUSON**

# RK SERIES

Rotary Rakes

High Performance Range of Rakes







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# Single-Rotor Rake

## Why a Massey Ferguson single-rotor rake?

Excellent raking quality, easy handling and a durable design – these qualities give you good reason to buy a Massey Ferguson single-rotor rake.

### Rake head

The rake head from Massey Ferguson is impressive because of its enclosed design that protects all of the important components against dirt and dust. This design is a guarantee for a long service life. The optimised shape of the cam track, which is made of spheroidal graphite cast iron, provides maximum smooth running and quick, precise lifting of the tines. The large-dimensioned drive unit and the precision manufactured tine arm housing made of aluminium alloy are both good examples of modern and practice-proven design.

### Tangentially arranged tine arms

Best raking quality is achieved with the tangential arrangement of the tine arms, creating an ideal swath. It makes significantly higher working speeds possible – the best pre-requisites if the harvesting weather is not in your favour.

### Special bolt-on connection for the rake head

The rake head is bolted together using a conical ring to form a sturdy unit. This has the advantage of the bolts not being subjected to shearing effect, but rather only to compressive and tensile forces. In addition, this results in a perfect centering and stability for a long service life. The tine arms can be replaced individually as required, without having to completely dismantle the rake socket.

### Swath deposit to the right

All Massey Ferguson single-rotor rakes place the swath to the right. This way, you always have your perfect swath in view as these days the operating controls are on the right. Depositing on the right – makes ergonomic sense!



Machine designation	RK 361	RK 451
Approx. working width in m	3.60	4.50
Approx. rotor diameter in m	2.78	3.40
Approx. weight in kg	420	620
Approx. power requirement in kW/hp	20/27	30/41



# Three-Point Linkage equipment: Single-rotor rake with large working range, versatile use and neat raking performance.



## Work smarter with a single-rotor rake

### Tine fixture

The tines are not pushed over the tine tube, instead each tine is screwed in from the bottom. The advantage of this is that the side of the arm facing the forage is absolutely smooth and therefore does not allow forage to stick to it. If there is wear, not all of the tines need to be removed to change the inner tines. In addition, the tines have greater freedom of movement, because they are not limited by the tube.

### Tine support

All tine supports at Massey Ferguson are made of sturdy tube material and are manufactured from one piece of metal. The connection point to the tine arm is machined for a perfect fit which makes it possible to insert the tine arms easily and reduces wear on this heavily stressed point to a minimum. In addition, this design makes repairs quick and easy when they are required.

### Power train

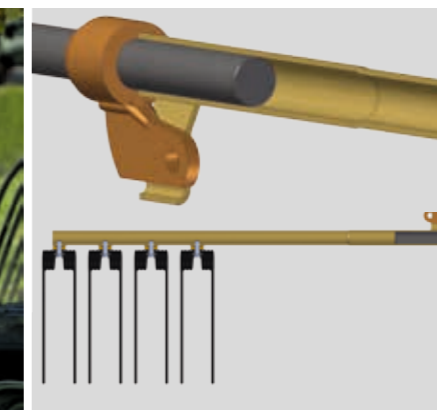
All power trains in the Massey Ferguson rakes are equipped with overload protection. This prevents expensive repairs and long downtimes during the forage harvesting season.

### Perfect working height

The linear height adjustment, which is fitted as standard, can very easily and conveniently adapt to the working height of your soil conditions.



Absolutely smooth front side of the tine arm



Perfectly fitting connection point to the tine arms



# Two-Rotor or Four-Rotor Rake

## Your choice of features

These days, large rakes are key machines in the forage harvesting chain – a failure can result in the stoppage of expensive machines, and could cause enormous costs. You should therefore entertain no compromises with your new rake and put your trust in quality and operational reliability. Massey Ferguson has combined its years of experience with the latest technical knowledge and, from these, developed a range of high performance large-scale rakes.

### The practical features that all machines share are:

- ▶ Robust construction
- ▶ Ease of operation
- ▶ Outstanding raking quality

### Two-rotor or four-rotor rakes?

#### Tangentially arranged rotor arms

Best raking quality is achieved with the tangential arrangement of the tine arms creating an ideal swath. It makes significantly higher working speeds possible – the best pre-requisites if the harvesting weather is not in your favour.

#### Rake heads

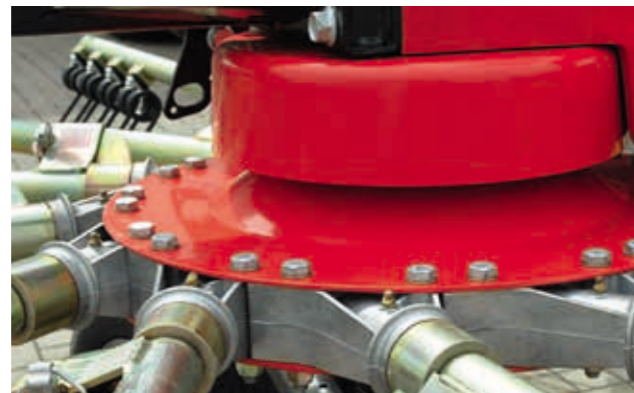
The rake heads from Massey Ferguson win users over due to their enclosed construction, which can be relied on to protect all important components from dirt and dust. This design is a guarantee for a long service life. The optimised shape of the cam track, which is made of unbreakable spheroidal graphite cast iron, provides maximum smooth running and quick, precise lifting of the tines. The large-dimensioned drive unit and the precision-manufactured tine arm housings made of aluminium alloy both reflect the modern and practice-proven design.

Machine designation	RK 662 TRC	RK 762 TRC	RK 802 TRC PRO	RK 1002 PRO	RK 1254 TRC
Approx. working width in m	5.80 – 6.60	6.80 – 7.60	7.20 – 8.00	8.80 – 10.00	12.50
Approx. swath width in m	1.20 – 1.80	1.20 – 2.00	1.20 – 2.00	1.30 – 2.00	1.20 – 2.20
Approx. weight in kg	1,350	1,875	2,050	2,950	4,200
Power requirement approx. kW/hp	19/26	30/41	35/48	51/70	59/80



#### Two-rotor rake with central swath deposit

Two-rotor rake with variable working width and swath width which for high performance and flexibility.



#### Four-rotor rake with central swath deposit

Four-rotor large area rake with variable working width and swath width for performance, agility and simple yet sturdy construction.

# Two and Four-Rotor Rakes

## Quality features

### Steerguard for a positive and direct steering movement

Massey Ferguson is the only manufacturer on the market to offer a steering system for the rake which operates within the frame. This patented steering system provides high, long-lasting precision. The steering shaft is protected against damage by the frame and, unlike externally located steering rods, has only two points of deflection. As a result accurate steering and safety is guaranteed, even after years of use.

The steering movement is transferred from the steering shaft to the wheels with the aid of the stub axle steering with adjustable track rod. The track rods with high-precision conical heads originate from their use in commercial vehicles where they have proved their efficiency over millions of kilometres.

The greatest benefit of this steering system lies in the very positive and direct transmission of the steering movement. The rake always runs exactly in the track of the tractor and is also still extremely agile. Furthermore, this type of steering guarantees very smooth running even at high speeds. As a result, safe and quick travel from field to field is possible at a speed of up to 50 km/h.



Patented, fully cardanic rotor suspension



### Jet Effect

Due to the fully cardanic rotor suspension and weight distribution of the rotor, the rotor lifts first at the front and then at the back. When lowered, the rear wheels of the rotor first make contact with the ground and then the front wheels. In this way, the tines are prevented from penetrating into the ground. No penetration, no damage to the sward, no forage contamination – top-quality forage.



Adjustable track rod head



Track rods as already used in commercial vehicles

### Perfect ground adaptation in every situation

The patented, fully cardanic rotor suspension from Massey Ferguson ensures perfect ground adaptation even under the most difficult of working conditions. The rotor can adapt itself perfectly to the ground and independently of the frame, whether inclined longitudinally or transversely. As a result, forage lying in recesses and depressions can be recovered without loss.

Damage to the sward by the tines is safely avoided even in hilly terrain. With Massey Ferguson, tidy raking work is always achieved without forage loss – and it's top-quality forage.



# Two-rotor central delivery rake with transport chassis

## RK 662 TRC and RK762 TRC

- ▶ The all-rounders
- ▶ Automatic working width preselection
- ▶ Optimum swath formation

### The all-rounders in the two-rotor central rake range

Automatic working width preselection, tidy raking work, precisely deposited swaths (even where large quantities of forage are involved) and quick and safe travel from field to field are all offered by the RK 662 and RK 762 two-rotor central rakes. They can master any working situation. With the optional 6-wheel contact-sensing chassis and the cardanic suspension of the rotors, tidy and

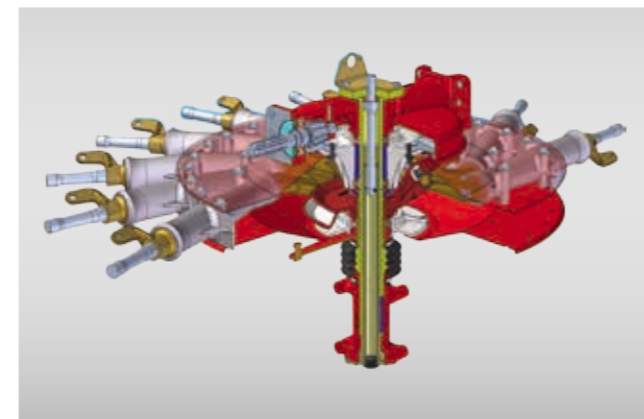
loss-free raking work is always achieved. The best pre-condition for your high-quality forage.

### Convenience of operation, pure and simple

The working width can be adjusted without tools and, combined with the externally adjustable control cam, enables the creation of an optimum swath for the machines following on behind. The working width can be selected in four different dimensions, thereby providing maximum convenience without a great expenditure of time and effort. Because of the patented technology, the lowest transport height is always ensured regardless of the pre-selected working width. Because of the automatic height limitation in the headland position, it is no longer necessary to switch off the rotors. The swath sheet folds up automatically and, in this way, it is even possible to travel over transverse swaths without forage loss.



Maintenance-free precision ball roller bearings



Maintenance-free rotor arm mounting



## RK 802 TRC PRO

- ▶ Specialist for extreme working conditions
- ▶ Optimum ground adaptation
- ▶ Top-quality swath

### The specialist for straw and extreme working conditions

Because the rotor rakes are under enormous stress during straw recovery and other difficult working conditions, they require an improved level of technology and equipment. The new rotor chassis on the RK 802 PRO has also been equipped with six wheels and with a tandem axle with 18-inch tyres, which ensures optimum ground adaptation. The twin leading wheels were also redesigned to be larger and rigid in order to guarantee running even under difficult conditions in the stubble field. The clearance between tines and the leading wheel was also reduced in order to guarantee a top-quality swath without contamination and stones, creating perfect conditions for your machine following on behind. The RK 8055 of course also copes competently with all operations on normal grassland.



Headland position

## RK 1002 TRC PRO

### Largest central rake with two rotors

Bigger, faster, stronger. The RK 1002 PRO is the largest central rake with two rotors in the Massey Ferguson range. Its enormous area output is essential for ensuring the high level of efficiency of the harvesting machinery following on behind.

In order to handle large quantities of forage in the best way possible, the working width can be changed hydraulically from 8.80 m to 10.00 m, allowing a perfect swath to be produced. The permissible transport speed of up to 50 km/h ensures quick journeys to the place of work, so you can quite easily manage any working day, no matter how long. Because of the low-maintenance design of the machines, time and effort spent on servicing is reduced to a minimum.





# Four-rotor central delivery rake with transport chassis

## RK 1254 TRC

- ▶ For large farms and inter-farm use
- ▶ Simple yet robust construction
- ▶ Low centre of gravity, excellent driving behaviour

### The Massey Ferguson flagship

With its four rotors and a working width of 12.5 metres, this rake provides an optimum swath and, as a result, optimum capacity utilisation.

The model was specially developed for large-scale farms, contractors as well as inter-farm use. The simple yet extremely robust construction of the RK 1254 TRC is easy to operate, which increases its flexibility when used on more than one farm.

### Headland control system

The machine is equipped with an automatic hydraulic sequential control system which can be adapted to your requirements. This system controls the delayed raising and lowering of the rear pair of rotors and enables you to deposit perfectly formed swaths at the headland. Because of the automatic height limitation in the headland position, it is no longer necessary to switch off the rotors.

The swath sheet folds up automatically and, it is even possible to travel over transverse swaths without forage loss.

### Safe on the road and on the hillside

The RK 1254 TRC is designed for a transport speed of up to 50 km/h, which ensures quick journeys to the site of work. In order to be safe at all times when travelling, the machine is equipped with a high performing brake system. The brake system allows you to carry out difficult operations in hillside situations. Due to the low centre of gravity, safe driving behaviour is also guaranteed, even at 50 km/h.



# Specifications

Model	RK 361	RK 451
Mounting category	Cat I and II	Cat I and II
Working width approx. m	3.60	4.50
Swath width approx. m	0.60 – 1.50	0.75 – 1.60
Transport width approx. m	1.55	1.99
Transport length approx. m	2.21	2.68
Tine arms per rotor	10	12
Double tines per arm	3	4
Tyres of rotor chassis	2 x 16/6.50 – 8	4 x 16/6.50 – 8
Power demand approx. kW/hp	20/27	30/41
Necessary hydraulic outlets	-	-
PTO rpm	540	540
PTO shaft	Overload safety clutch (radial pin clutch)	Overload safety clutch (radial pin clutch)
Weight approx. kgs	420	620

- Not available/not applicable ● Standard specification ○ Optional

Illustrations show some of the special equipment. Some machines available in selected countries only. The images provided do not necessarily correspond to the most recent version of standard equipment.

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.

Model	RK 662 TRC	RK 762 TRC	RK 802 TRC PRO	RK 1002 TRC PRO	RK 1254 TRC
Mounting Category	Cat I and II	Cat I and II	Cat I and II	Cat II	Cat II
Working width approx. m	5.80 – 6.60	6.80 – 7.60	7.20 – 8.00	8.80 – 10.00	12.50
Swath width approx. m	1.20 – 1.80	1.20 – 2.00	1.20 – 2.00	1.30 – 2.20	1.20 – 2.20
Transport width approx. m	2.75	2.98	2.98	2.87	2.98
Transport height app. m (dismounted tine arms)	3.18	3.55	3.65	3.85	3.65
Transport length approx. m	4.66	5.33	5.37	6.49	8.49
Tine arms per rotor	2 x 10	2 x 12	2 x 12	15	4 x 12
Double tines per arm	4	4	4	5	4
Tyres of rotor chassis	3 x 16/6.50 – 8	4 x 16/6.50 – 8	6 x 18/8.50 – 8	6 x 18/8.50 – 8	4 x 16/6.50 – 8
Tyres of transport chassis	10.0/75 – 15.3	10.0/75 – 15.3	11.5/80 – 15.3	380/55 – 17	500/50 – 17
Power demand approx. kW/hp	19/26	30/41	35/48	51/70	59/80
Necessary hydraulic outlets	1 x SAV	1 x SAV	1 x SAV	1 x SAV, 1 x DAV	2 x DAV
PTO rpm	540	540	540	540	540
Overrunning clutch in the auxiliary drive	●	●	●	●	●
Warning panels	●	●	●	●	●
Electrical lighting	●	●	●	●	●
Weight approx. kgs	1,350	1,875	2,050	2,950	4,200



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