



**MASSEY FERGUSON**

# DM SERIES

**Mowers & Mower Conditioners**

Innovative and Efficient Mowers and Mower Conditioners





# Farmer Series: Disc mower

The DM 246 provides a very sturdy and economical solution to the small and medium size farm without compromising quality and finish. Ideally suited to farmers with low horsepower tractors or a limited amount of mowing to carry out, this mower boasts a host of features you would expect to find on larger, more expensive machines.

## DM 246 features include:

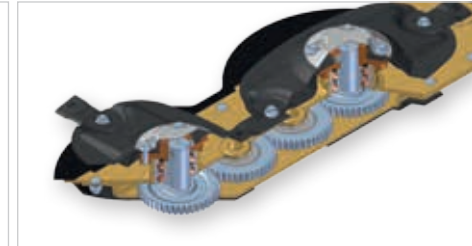
- ▶ A PTO shaft with free wheel clutch, which transfers the power through a flexible V belt from the tractor to the in-line cutterbar
- ▶ Each cutting head is fitted with shear pin protection, in case obstacles are hit. These pins can easily be replaced in the field if required
- ▶ The flat profile is ideal for heavy crops and, combined with the standard stone guard and large hardened skid, ensures years of trouble-free service
- ▶ Built to perform under the most difficult conditions
- ▶ Provides an exact cut and high forage flow without material build-up, leaving fluffy swaths and high quality forage



Machine designation	DM 246
Approx. working width in m	2.42
Mower discs	6
Blades per mower disc	2
Approx. swath width in m	1.65
Approx. weight in kg	437
Power requirement approx. kW/hp	37/50



Spring relief on all models



Solid mounting in bearings – high level of reliability when in use



Elastic V-belt drive



A look into the workings of the cutter bar

## Low weight – wide coverage

Disc mowers with spur gear drive have great appeal thanks to their long working life and low operating costs. The lightweight construction maximises the yield even when smaller tractors are used because, with the disc mowers, considerably wider working widths can be achieved. Ease of maintenance is another positive feature these lightweight mowers offer.

## An exact cut – even under difficult conditions

The gear bed cutter bar is precision engineered. With elliptical discs, rotating swathformers and robust conveyor drums, it is possible to achieve a clean cutting pattern and good forage throughput even on difficult terrain.

## Special attributes of our cutter bar

Very low risk of wear: easy to repair, bolted-on cutter bar with all components mounted in the base plate and bolted-on cover plate.

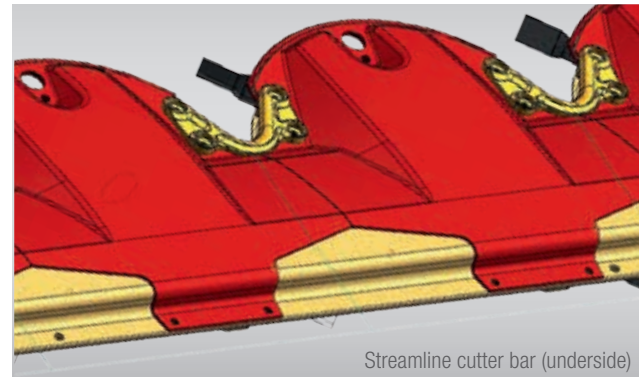
- ▶ Equipped to handle every load due to robust construction with quality materials
- ▶ Superior Massey Ferguson blades for an extremely high quality of cut
- ▶ High-quality roller bearings to ensure smooth running of the gears
- ▶ Reliable sealing of the complete cutter bar

# Professional Series: Features

## Disc mowers and mower conditioners

Designed for contractors and larger farms and built to tackle the big jobs, the Professional Series offers many exclusive features that drive high performance and low maintenance, increasing efficiency and lowering operating costs.

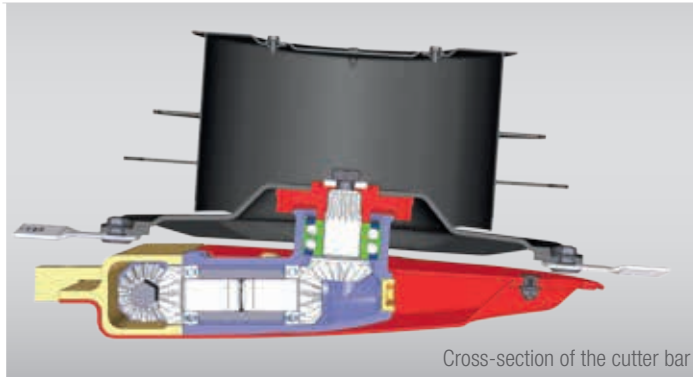
### The secret to a perfect cut



Streamline cutter bar (underside)

#### The compact angle drive

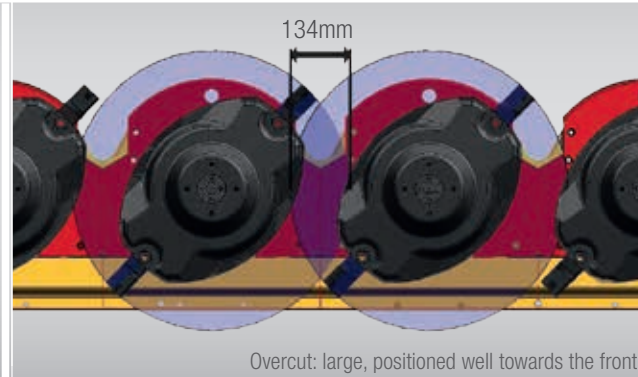
At the heart of this system is a continuous, large-dimensioned hexagonal shaft and a robust angular gearbox under each mower disc. This results in even power distribution to all mower discs and the smoothing of torque peaks. The load and the wear of the components is significantly lower when compared to the conventional spur gear bar. The components are screwed to a robust yet flexible unit. Due to a special drive, the Massey Ferguson disc mowers with compact angle drive are durable and produce particularly low drag. This positively impacts the cost-effectiveness of your mowing.



Cross-section of the cutter bar

#### Ergonomics of the cutter bar – the shape makes the difference

The ergonomics of the cutter bar determine whether you will harvest quality forage. The engineers at Massey Ferguson have succeeded in developing a perfectly streamlined cutter bar with profiles on the underside. As a result, even in adverse conditions, this prevents the formation of mounds of earth in field forage crops or on wetland. The earth is cleanly separated from the forage and flows away under the cutter bar. This excludes the possibility of the earth mixing in with your high-quality forage. With a Massey Ferguson cutter bar, you can continue to work when others have had to give up or have not even been able to start working.



Overcut: large, positioned well towards the front

#### The cut is what counts

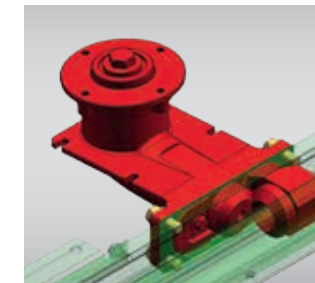
A perfect cut is achieved due to the large overlap of the mower discs, which are positioned well towards the front. Massey Ferguson mowers use large mower discs and their special shape means that they can handle increased volume of forage – an important aspect, especially for heavy, lying material. A clean cutting pattern – the calling card of any Massey Ferguson mower!

#### Typical features of the compact angle drive

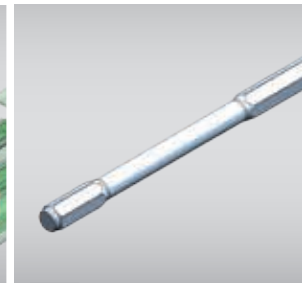
Everything is well thought-out for a high level of operational reliability and low operating costs.

Even as early as the first bar designs, our engineers worked with foresight. As a result, the hexagonal shaft was provided with a predetermined breaking point, which interrupts the flow of power between the cutter bar and the tractor if there is a heavy overload. That saves you having to pay for expensive repairs. The compact angle drive operates all skids which are attached using bolts, and can be easily and quickly replaced as required. Due to its lifetime oil filling, the cutter bar is largely maintenance-free and the lubrication of the cutter bar is ensured in any mowing situation.

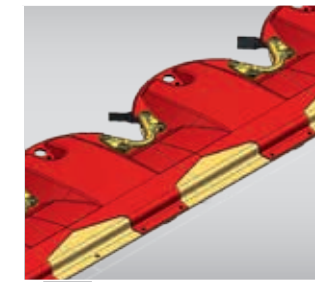
The best basis for a worry-free harvest – more crops, no stops!



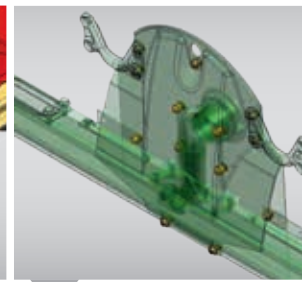
Mower disc drive



Hexagonal shaft with predetermined breaking point



Streamline cutter bar (underside)



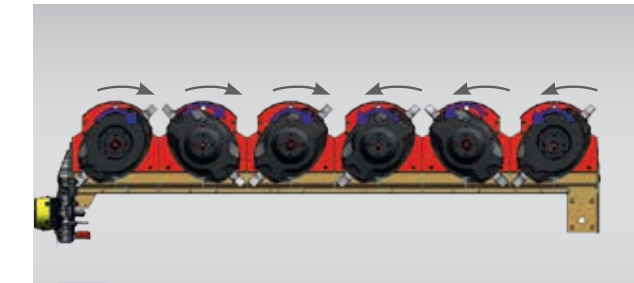
Bolted structure

#### Axial or paired running – anything is possible

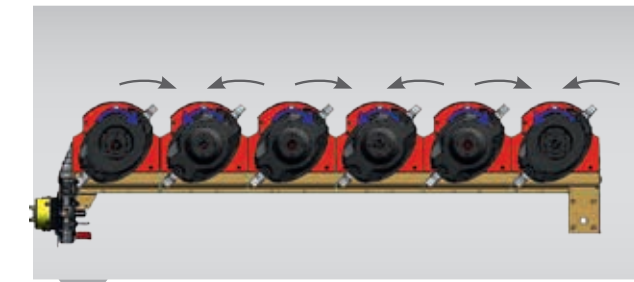
Due to the compact angle drive being bolted, you can change the direction of rotation of each module to meet your individual needs – even after many years

The mower discs are converted from axial running to paired running by simply switching the angle drive – all without any additional components.

You can flexibly adapt your Massey Ferguson mower to changing general conditions. Whatever comes your way, you always have the right mowing technology.



Axial running

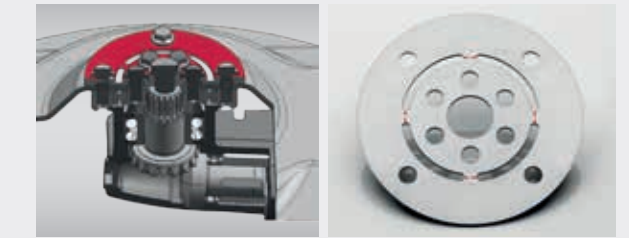


Paired running

## drive GUARD

Every farmer knows from experience that foreign objects accidentally drawn into the mower can cause significant damage.

Massey Ferguson prevents precisely this kind of damage with driveGUARD – a top notch overload protection system.



#### Better protected than ever

When the mower disc becomes jammed by a foreign object the **driveGUARD** shears off at the predetermined breaking points.

This interrupts the power train and the mower disc turns freely.



#### Nothing is more cost-effective

The **driveGUARD** offers the customer extremely cost-effective and reliable protection because, once the mower has been fitted with one, only the throw-away overload disc will have to be replaced if the need arises.



# Disc Mowers: Rear-mounted disc mower

## DM 255 P, DM 306 P & DM 357 P

The Professional Series disc mowers feature individual compact angular gears that provide an extremely smooth power transfer to all discs, resulting in less wear than a conventional gear drive and ensuring a longer and more reliable cutter bar life. They also feature rupture protection for safety in the event of hitting a large obstacle. The wedge shaped bar provides the added benefit of a low cut and the 'Big Disc' design ensures a large overlap, which results in a clean cut even in the face of high volume and difficult crops.

The modular design enables quick and easy servicing in the field, should it be required.

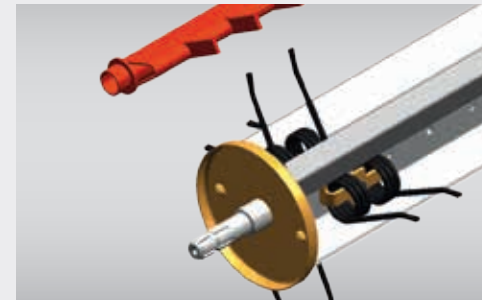
Machine designation	DM 255 P	DM 306 P	DM 357 P
Approx. working width in m	2.55	3.00	3.50
Approx. swath width in m	2.00	2.00	2.60
Approx. weight in kg	630	724	798
Power requirement approx. kW/hp	40/54	45/61	50/68

## Rear-mounted three-point side attachment

Lateral suspension with a controlled lifting linkage results in a compact transport position and low transport height. A quick change knife system is standard on the Professional Series mowers, increasing the efficiency of operation.

As an option, the DM 255 P can be quickly and easily retrofitted with a roller (RC) or tine conditioner (KC), while the DM 306 P can be retrofitted with a KC Tine conditioner.

A sturdy exterior support guarantees long working life of protective covers thus increasing operational safety of the machine.



# Disc Mowers: Rear-mounted. Three-point linkage, centre support

## DM 306 TL, DM 306 TL-KC, DM 357 TL, DM 357 TL-KC & DM 408 TL

- ▶ Rear-mounted mower for medium power classes
- ▶ Hydro-pneumatic suspension
- ▶ Ease of handling

### Hydro-pneumatic suspension system – TurboLift-system

Infinitely variable ground pressure control, with the ability to change ground pressure on the move as field conditions vary.

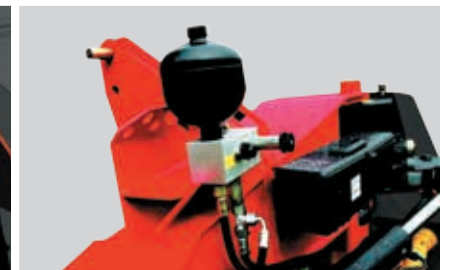
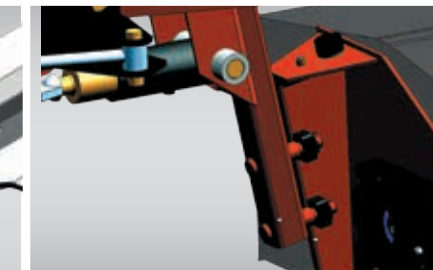
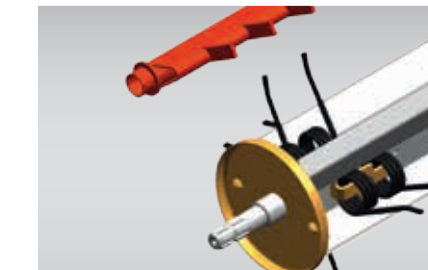
- ▶ Free-floating cutting
- ▶ Patented sliding guide
- ▶ Adaptable to a variety of conditions
- ▶ Improved cutting quality
- ▶ Reduced load on the support frame, support tube and three-point linkage
- ▶ Gentle on the turf sward
- ▶ Reduced forage contamination
- ▶ Accurate support and guidance of the mowing bar
- ▶ Very good adjustment to the ground

### The support frame – the backbone of any mower

The cutter bar is supported and guided by the support frame. This is manufactured from high-quality, warp-resistant steel and is designed for extremely heavy loads.

The Massey Ferguson design is particularly characterised by sturdiness and durability.

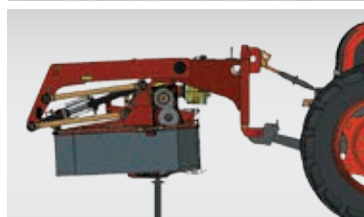
Machine designation	DM 306 TL	DM 306 TL-KC	DM 357 TL	DM 357 TL-KC	DM 408 TL
Approx. working width in m	3.00	3.00	3.50	3.50	4.00
Approx. swath width in m	2.30	1.20-2.30	2.80	1.60-3.25	3.30
Approx. weight in kg	875	1,150	950	1280	980
Power requirement approx. kW/hp	55/75	63/86	65/88	74/101	72/98
Conditioner (KC)	-	•	-	•	-





# Disc Mower Conditioners: **Front-mounted**

Pull or push type linkage



Large lifting height



Ample pivot travel



## DM 306 FZ & DM 306 FP

- ▶ Perfect for operating in mower combinations
- ▶ Hydraulic movement system for harvesting without losses
- ▶ Three-dimensional sensing of the ground contours

### Spring parallelogram

- ▶ Optimally located
- ▶ Minimal spring contraction during oscillating movement of the mower unit
- ▶ Ground pressure is only marginally higher

### Conditioning process

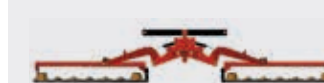
- ▶ Tine and roller conditioners available
- ▶ Gentle forage treatment
- ▶ No crushing
- ▶ Less loss due to crumbling compared to flail conditioners

### Conditioner intensity

- ▶ Adaptable to a variety of conditions
- ▶ Easily adjustable to four positions without tools
- ▶ In case of damage, it is easy to replace individual elements

### Simple direct-drive concept

- ▶ Shear screw overload protection
- ▶ Low weight
- ▶ Easy to pull – little additional power demand



# Disc Mower Conditioners: **Butterfly**

## DM 813 TL-KC & DM 813 TL-RC

- ▶ Butterfly mower conditioner - 8.3 meters
- ▶ Three-point linkage attachment
- ▶ Hydro pneumatic suspension
- ▶ SafetySwing anti-collision device

### Mower units are mounted at the centre of the gravity

- ▶ Adapts very well to the ground contour
- ▶ Reduced load on tractor lift arms

### Trailed mower – pulling is easier than pushing

- ▶ Soil conserving
- ▶ Fuel saving

### Constant, continuously variable ground surface pressure by means of adjusting wheel (no need for tools)

- ▶ Adaptable to a variety of conditions
- ▶ SafetySwing anti-collision device
- ▶ Each mower unit avoids obstructions independently
- ▶ Mower unit diverts backwards and upwards
- ▶ Re-engagement into working position through its own weight

### Contact pressure adjustable while driving

- ▶ Passing of wet areas
- ▶ Low ground impact
- ▶ No forage contamination

### Free-floating cutting

- ▶ Gentle on turf sward
- ▶ Reduced forage contamination (lower raw ash content in the basic forage)

## DM 8312 TL-KC & DM 9314 TL-KC

### Rear-mounted Butterfly

The DM 8312 rear mounted 3PL butterfly disc mower with KC or RC tine rotor conditioner is a perfect companion to the front-mounted DM 306 FZ mower conditioner with trailing linkage. Working in tandem, the two provide a total cutting width of 8.27 m, allowing you to cover more ground faster. Working together or on their own, these mowers are great for the professional farmer or contractor seeking to maximise the productivity of their machinery.

The DM 8312 features free-floating cutting, which reduces the load on the support frame, support tube and the 3-point linkage hitch. It allows for improved cutting quality in uneven ground and smoothly glides over undulations thanks to its TurboLift-system (TL), which enables hydro-pneumatic discharge and continuous adjustment of bearing pressure on the cutter bar. The DM 8312 TL-KC and DM 9314 TL-KC mower is also fitted with impact SafetySwing protection, which can independently swerve back and up around the slanting axle should an obstacle be hit. The slanting axle protects the drive shafts from damage.

If an incident occurs, the mower will return to its working position under its own weight, meaning time-consuming stopping or reversing is not required.

Both mowers feature one-lever operation for quick change at the headlands, making the transition from working to turning fast and simple.

## DM 9314 EL TL-KCB

### Mower combination with ISOBUS control system

Advanced machine technology coupled with a state-of-the-art ISOBUS equipment control system makes this mower combination with conveyor belt stand out from the rest. A working width of 9.30 m allows large volumes of forage to be processed efficiently. For the DM 9314 TL-KCB, a particularly wide conveyor belt (940x2,700 mm) has been developed that can handle larger volumes of forage with ease, and continuously operate at higher working speeds.

- ▶ Hydraulic floating mower units – TurboLift-system
- ▶ SafetySwing impact guard
- ▶ Trailed cutter bar hitch attachment – pulling is easier than pushing
- ▶ Operation of all mower functions via the ISOBUS control system
- ▶ Comprehensive speed monitoring of rotating parts
- ▶ Wide beMOVE conveyor belt with integrated hydraulic lateral movement
- ▶ Central, single or partial swath delivery to conveyor belts that can be raised individually
- ▶ ComfortChange quick-change blade system as standard, to safely replace blades without losing time
- ▶ Retrofit kit available for non-ISOBUS- compatible tractors
- ▶ Active ground pressure control

# Specifications

## Disc mowers and mower conditioners

Model	DM 246	DM 255 P	DM 306 P	DM 357 P	DM 306 FP	DM 306 FZ
Configuration	3 pt - Side Mount	3 pt - Side Mount	3 pt - Side Mount	3 pt - side mount	Front-Mounted	Front-Mounted
Width (m)	2.42	2.55	3	3.50	3	3
Min. pwr (hp)	50	54	61	68	75	75
Weight (kg)	437	630	724	798	734	930
PTO (rpm)	540	540	540	540	1,000	1,000
Discs	6	5	6	7	6	6
KC Conditioner	-	-	○	-	-	○
RC Conditioner	-	○	-	-	-	○

## Three-point linkage mounted disc mowers with centre support

Model	DM 306 TL	DM 306 TL-KC	DM 357 TL	DM 357 TL-KC	DM 408 TL
Working width approx. m	3	3	3.5	3.5	4
Transport width approx. m	2.3	2.3	2.3	2.3	2.3
Transport length approx.m	4.65	4.65	5.15	5.15	5.6
Mower discs	6	6	7	7	8
Blades per disc	2	2	2	2	2
Swath width approx. m	2.3	1.20-2.30	2.8	1.60-3.25	3.3
Power demand approx. kW/hp	55/75	63/86	65/88	74/101	72/99
Necessary hydraulic outlets	1 X SAV, 1 X DAV	1 X SAV, 1 X DAV	1 X SAV, 1 X DAV	1 X SAV, 1 X DAV	1 X SAV, 1 X DAV
PTO rpm	1,000	1,000	1,000	1,000	1,000
Overrunning clutch	●	●	●	●	●
Weight approx. kgs	875	1,150	950	1280	980

## Rear-mounted butterfly mower conditioners

Model	DM 8312 TL-KC	DM 8312 TL-RC	DM 9314 TL-KC	DM 9314 EL TL-KCB
Working width approx. m	8.3	8.3	9.3	9.3
Transport width approx. m	2.78	2.78	2.78	2.78
Transport height approx. m	3.73	3.73	3.9	3.9
Conditioner	Tine	Tine	Tine	Tine
Mower discs	2 X 6	2 x 6	2 x 7	2 x 7
Blades per disc	2	2	2	2
Swath width approx. m	2 X 1.45 - 2.25	2 x 1.45 - 2.25	2 x 1.85 - 3.25	2 x 1.80 - 3.00
Power demand approx. kW/hp	132/180	132/180	155/200	168/228
Necessary hydraulic outlets	2 X SAV, 1 X DAV	2 X SAV, 1 X DAV	2 X SAV, 1 X DAV	1 X Load Sensing
PTO rpm	1,000	1,000	1,000	1,000
Overrunning clutch	●	●	●	●
Warning panels	●	●	●	●
Electrical lightning	●	●	●	●
Weight approx. kgs	2,410	2,800	2,830	3,450

- 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.



**MASSEY FERGUSON**

**A world of experience. Working with you.**



[facebook.com/MasseyFergusonGlobal](https://facebook.com/MasseyFergusonGlobal)  
[twitter.com/AGCOcorp](https://twitter.com/AGCOcorp)  
[youtube.com/MasseyFergusonVideo](https://youtube.com/MasseyFergusonVideo)  
[blog.agcocorp.com](https://blog.agcocorp.com)

 **AGCO** MASSEY FERGUSON is a worldwide brand of AGCO.



**MASSEY FERGUSON**