

DEUTZ-FAHR Trailed and mounted disc mower conditioners



FORAGE HARVESTING.

The new DiscMaster range



FlexProtect

Gone are the days where the side covers were seriously damaged by hitting even smaller obstacles in the field. The new Deutz-Fahr FlexProtect side covers are made of polythene – a very flexible material that breaks away when hitting obstacles without breaking or leaving damages at the mower.



Free Float Suspension

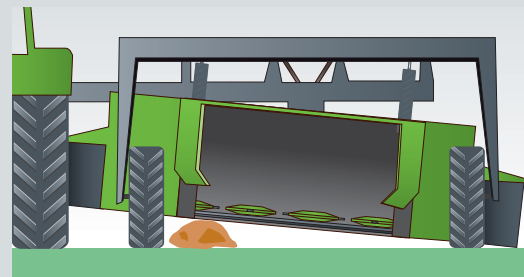


Pulled suspension

The Free Float Suspension concept is the Deutz-Fahr solution to precise and trouble free mowing. The mowing unit is centrally suspended to give more precise ground contour following. The mowing units feature a pulled suspension system to allow the cutting unit to independently float over ridges and contours. This ensures accurate, close cutting performance in all conditions.

Excellent protection against foreign obstacles

If an obstacle is hit in the field the pulled suspension allows the mowing unit to swing backwards and up. When the obstacle is passed the mowing unit automatically returns to the working position.



Why DiscMaster?

The new Deutz-Fahr range of mower conditioners has been designed to offer you a little bit more than standard mowers - in fact our ambition has been to raise the standard for mower conditioners further ahead and to offer you some extra features. Something that will improve the mowing performance and make your working day that easier.

- The triangular discs with 3 knives
- The free float suspension for trouble free mowing
- The new SemiSwing steel tine conditioner for maximum conditioning effect and excellent protection of the tines

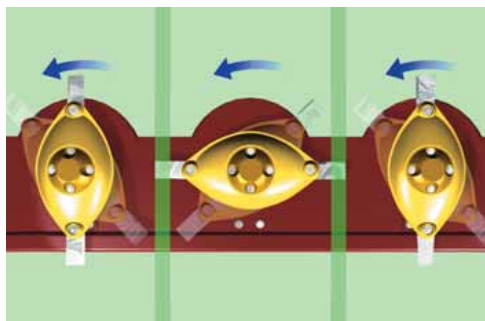
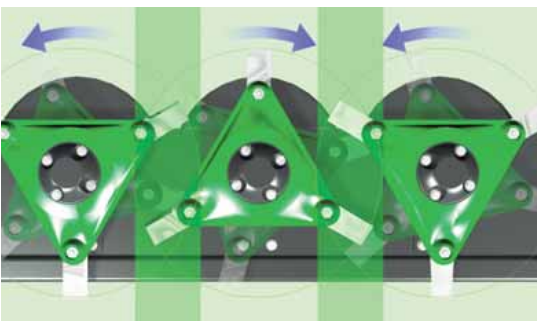
DiscMaster 632T.



DiscMaster 832T.



Contra-rotating three bladed discs



Three bladed discs for more cuts
With three blades per disc DiscMaster mowers are constantly cutting. This means a third less load per blade and an even load on the drive and smoother power usage in addition to producing a neat, cleanly cut stubble. Each steel blade is precisely angled to immediately convey the cut crop upwards with a combination of mechanical action and air flow towards the conditioning rotor or rollers.



Each individual hub is protected by a safety device which protects the drive train in case of sudden overload.



Each individual disc bearing housing can be removed quickly for easy maintenance and bearing replacement.

Contra-rotating cutting discs for improved overlap
All Deutz-Fahr mowers have an even number of contra-rotating discs. Apart from the immediate crop transport to the rear this system ensures that even in wet conditions no stripes of uncut forage are left in the field.

Taking cutting performance to new dimensions!



Low noise cutterbar

The newly developed DiscMaster cutterbar is designed for low maintenance and offers a very quiet operation. Operators will immediately love the virtually quiet operation of the new cutterbar – convenient during a long and busy working day. The long curved gear wheels run smoothly in oil and provide lots of power transmission with little slack.

Heavy duty cutterbar

The DiscMaster cutterbar has a high oil capacity, which ensures a very low working temperature. This guarantees an efficient oil cooling and lubrication of the whole cutterbar. The fully welded cutterbar with overlapping C-profiles makes for a very stiff and strong design, ensuring very high level of durability.

The complete front plate can be turned by removing a pin lock.



Semi-Swing steel tine conditioner



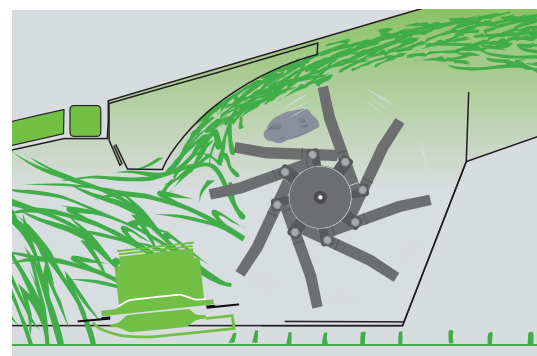
The fish bone structure of the conditioner plate gives an improved conditioning effect. The crop is rubbed against the plate to crank the leaf structure of the crop.



The conditioner plate has 3 different settings to enable you to achieve the required conditioning effect.



The conditioner rotor can be fitted with nylon tines as an option.

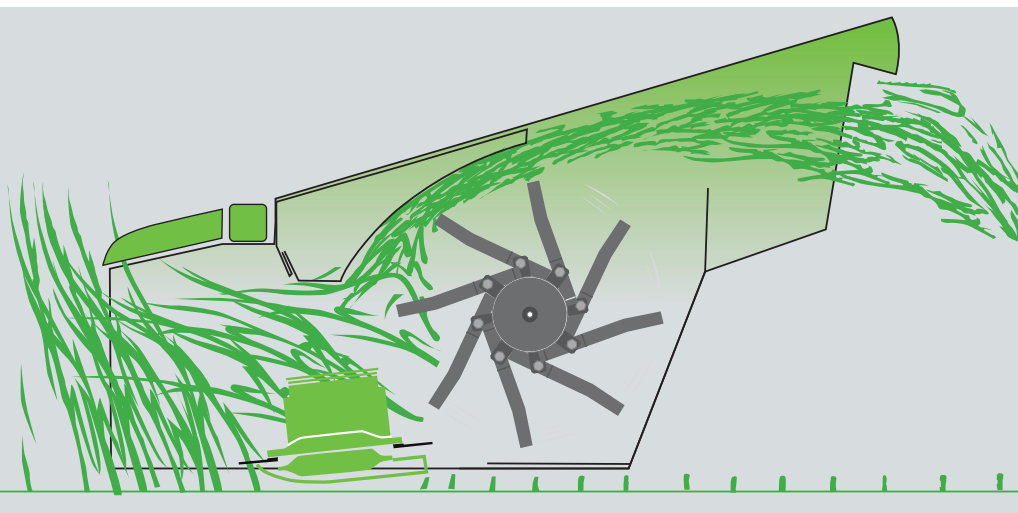


More aggressive conditioning

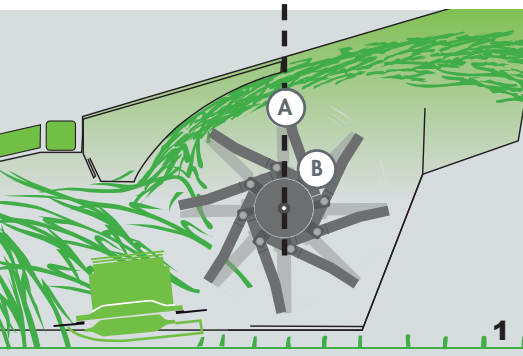
The new Deutz-Fahr steel tine conditioner offers a completely new solution when it comes to aggressive conditioning and low maintenance. It is the result of thorough testing and engineering work that allows to achieve the same aggressive conditioning expected of fixed tines but with a high degree of tine protection if you hit foreign obstacles. The result is the new SemiSwing steel tines.

Reduced wear and tear

The complete conditioner tine has been redesigned to move the centre of gravity and to fully utilise the centrifugal force. This means that the force from the SemiSwing tine will be significantly higher than a traditional free swinging tine. The result is that the tine will stay in position when it hits the grass with force giving full conditioning effect and minimising wear and tear on the turning points.

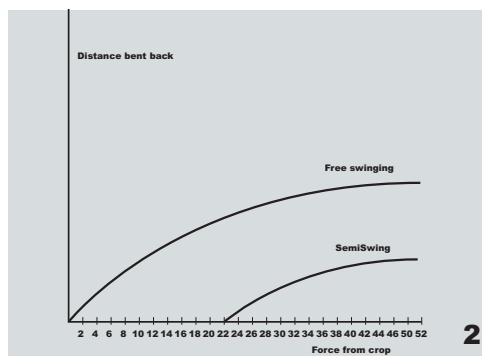


$$F_{\text{centr.}} \times a \geq F_{\text{crop}}$$



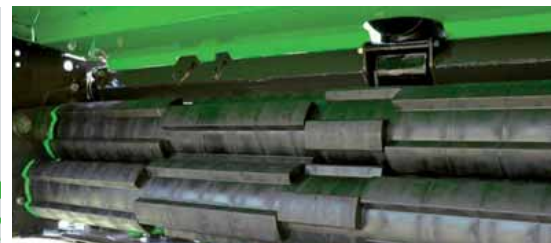
What makes the SemiSwing concept unique

1 The centrifugal force will always try to move a free swinging tine into a 90° position (A) during rotation. The new SemiSwing tines are locked by the rotor (B). This means that the SemiSwing tine has excess centrifugal force because it will always try to move further to the right, into the same position as a free swinging tine. The extra centrifugal force is utilised to resist the grass force and ensure that the tine will stay in position.

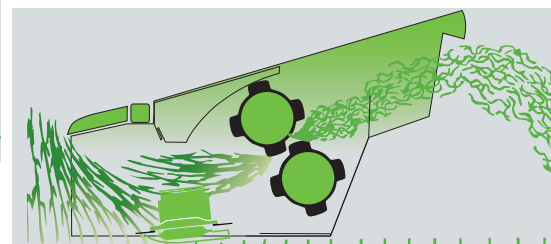


You benefit from no movement during rotation and full conditioning effect.

2 It requires a grass weight of 22 kgs on the tines to move the SemiSwing tines backwards. A free swinging tine will move slightly backwards as soon as it hits the crop. This means that for a heavy crop, you require a significantly heavier contra-weight to move the SemiSwing tines backwards than you would with traditional tines.



Conditioning intensity is varied by adjusting the minimum gap and the spring pressure exerted between the upper and lower rollers.



The special roller configuration with the top roller located further forward than the bottom roller provides a better material flow.

Segmented roller conditioner

The Deutz-Fahr roller version is equipped with two profiled conditioning rollers. The rollers are the same width as the cutterbar and contra rotate, taking the cut crop quickly off the cutting discs and between the rollers. The rollers provide gentle and effective conditioning of fragile crops such as lucerne/alfalfa, keeping leaf loss to an absolute minimum.

Full conditioning effect and minimum blockages

The angle and position of the SemiSwing tines gives you a better crop transport. The crop is moved away from the conditioner rotor towards the fishbone structure of the conditioner plate. The result is lower risk of blockages and full effect of the conditioner plate.



DiscMaster 828-832-835



The complete range!

The new DiscMaster 800 series trailed mower conditioners were designed from the ground up with extensive input from customers around the world. The result is the launch of a complete range in working widths of 2.8, 3.2 and 3.5 m, with the new SemiSwing steel tine conditioner or rubber roller conditioner, left hand or centre pivot drawbar.

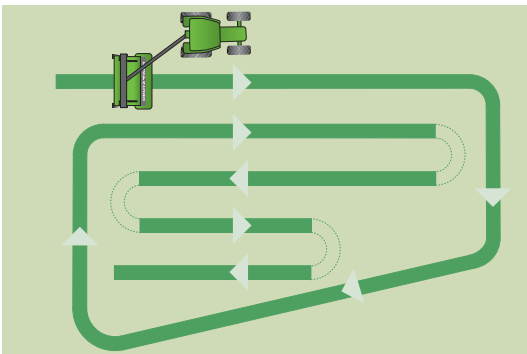
Swathing or wide spreading!

The new DiscMaster 828-832-835 are the ultimate solutions when it comes to flexibility. The mower can be fitted with wide spreading equipment to give as much flexibility as possible and help you cope with the ever changing conditions. The change-over from single swathing to wide spreading is very quick and done in short time.



The cutting height is set by turning an integrated handle on top of the suspension.

Flexible solutions



Narrow transport width of 3.00 m of the DiscMaster 832 versions and 3.40 m for the DiscMaster 835 versions.

All DiscMaster 800 mowers are standard fitted with size 380/55-17 wheels as standard in order to reduce soil contamination.

Centre pivot drawbar

The DiscMaster C-version is supplied with a centre pivot drawbar for mowing both to the right and left sides of the tractor. This important

advantage in mower design allows mowing a field in one continued process, without the need to open new 'lands'. Turning on headlands is much easier,

because the hydraulically operated drawbar allows the turning circle to be significantly reduced, saving time and reducing the number of instances that the cut crop is driven over.



The conditioner's V-belt drive with easy switch of pulleys. Switch the pulleys to change the conditioner speed from 600 to 900 rpm.



Standard fitted tool box conveniently positioned at the end of the drawbar.



Integrated lighting kit.



Easy to use wide spreading



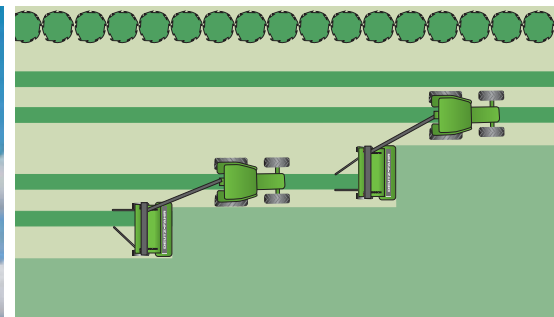
The easy-to-use wide spreading kit

The DiscMaster 828, 832 and 835 can be fitted with an easy-to-use wide spreading kit. This enables the crops to be cut and spread in one operation. Changing from swathing to wide spreading is done by simply

turning the spreading plate 180° (no tools required) and remove the spreading plates. The spreading vanes are positioned as far to the rear of the machine as possible when in use. The increased distance from the conditioning rotor to the

spreading vanes provides a more even spreading of the material across the entire working width.

Hydraulic swath deflectors



Hydraulic swath deflectors

The DiscMaster 828TD, 832TD and 832CTD are all available with the hydraulically operated swath deflector as factory fitted option. The deflectors enable the operator to place two swaths along side each other - ideal for maximising the output of today's foragers fitted with wide pick ups. With careful positioning of the two swaths, neither the tractor nor mower conditioner need to drive over any swath.

- 1 On the first pass the crop is placed to the right, close to the unmown crop.
- 2 The position of the swath deflectors is then changed hydraulically, so that they throw the swath to the left. The second swath is laid adjacent to the first, leaving a double swath.



The high-lift design of the mower gives a lifting height of 50 cm. The result is good clearance for transport and when turning on headlands so that swath damages are minimised.



The heavy duty factory fitted swivel hitch headstock with reversible gearbox for either 540 or 1000 rmp PTO input allows unlimited turning angles at constant PTO velocity and ensures trouble-free operations during headland turns or transport.



DiscMaster 632T



The DiscMaster 632T is standard fitted with wide spreading vanes. The mower can be set for wide spreading mode simply by moving two levers conveniently placed on top of the mower.

A new standard in the high performance segment

The pulled suspension of the new DiscMaster 632T is Deutz-Fahr know-how transferred to mounted disc mowers - a new standard for ground flotation normally only seen on trailed versions.

With its 3.2 m working width and hydraulic suspension it is a truly high performance machine that combines perfectly into combination with a front-mounted mower conditioner to offer a total working width of 6.2 m.

Easy to work with

The new DiscMaster 632T has been designed for the professional use during a busy and demanding harvesting season. Features include the two speed gearbox, easy access to both cutterbar and conditioner rotor, low maintenance SemiSwing steel tines and hydraulic pulled suspension.

Pulled suspension for excellent ground adaption!



Pulled centre suspension for even weight distribution and excellent adaptation.



Hydraulic suspension for easy and precise setting of ground pressure.



Easy lift on headlands without activating the 3-point linkage of the tractor.

Two-speed gearbox

The DiscMaster 632T is fitted with a 2-speed gearbox for conditioner speeds of 900 or 600 rpm. This allows you to choose between intensive conditioning or low fuel consumption when the crop only requires limited conditioning effect. The lever is conveniently positioned for easy access on top of the gearbox.



Safe transport



The complete whole end of the mower can be lifted to give easy access to the conditioner. The complete conditioning rotor can be removed very quickly if mowing without conditioning is requested.

Transport

The DiscMaster 632T is folded hydraulically into a vertical transport position. The low gravity point during transport provides an excellent weight distribution, which protects the headstock and tractor from excessive forces resulting from humps and bumps. The tractor remains well under control even during high speed road transport.



Hydraulic swath plate - a clever solution when mowing along ditches. The complete left hand swath plate can be moved hydraulically from the



tractor cab, which moves the mown crop away from the ditch and makes it very easy to collect the crop afterwards.

DiscMaster 632T	DiscMaster 828	DiscMaster 828	DiscMaster 832	DiscMaster 832	DiscMaster 835
Single swath	Single swath	Swath deflector	Single swath	Swath deflector	Single swath
1.1-1.7 m	0.7-1.2 m	2.25 m	1.1-1.7 m	2.80 m	1.3-2.7 m

DEUTZ-FAHR Mower conditioners

TECHNICAL SPECIFICATIONS

DiscMaster	632T	828T	828TD	832T	832TD	832CT	832CTD	832R
Drawbar	-	Left hand	Left hand	Left hand	Left hand	Centre pivot	Centre pivot	Left hand
Conditioner	SemiSwing	SemiSwing	SemiSwing	SemiSwing	SemiSwing	SemiSwing	SemiSwing	Roller cond.
Working width (m)	3.20	2.80	2.80	3.20	3.20	3.20	3.20	3.20
Transport width (m)	3.00	2.70	2.70	3.00	3.00	3.00	3.00	3.00
Weight appr. (kg)	1050	1630	1630	1800	1800	2130	2130	1885
Number of discs	8	8	8	8	8	8	8	8
Stubble height (mm)	30-40	30-40	30-40	30-40	30-40	30-40	30-40	30-40
PTO (RPM) swivel hitch drawbar	540/1000	540/1000	540/1000	540/1000	540/1000	540/1000	540/1000	540/1000
PTO power req. min (kW/hp)	60/80	50/70	50/70	60/80	60/80	60/80	60/80	60/80
Cond. rotor speed	600/900	450*/600/900	450*/600/900	450*/600/900	450*/600/900	450*/600/900	450*/600/900	900/1200*
Tyres	-	380/55-17	380/55-17	380/55-17	380/55-17	380/55-17	380/55-17	380/55-17
Swath deflector	-	-	•	-	•	-	•	-
Wide spreading kit	•	0	-	0	0	0	-	0

DiscMaster	835T	835R	835CT	835CR				
Drawbar	Left hand	Left hand	Centre pivot	Centre pivot				
Conditioner	SemiSwing	Roller cond.	SemiSwing	Roller cond.				
Working width (m)	3.50	3.50	3.50	3.50				
Transport width (m)	3.40	3.40	3.40	3.40				
Weight appr. (kg)	2190	2275	2240	2335				
Number of discs	10	10	10	10				
Stubble height (mm)	30-40	30-40	30-40	30-40				
PTO (RPM) swivel hitch drawbar	540/1000	540/1000	540/1000	540/1000				
PTO power req. min (kW/hp)	70/90	70/90	70/90	70/90				
Cond. rotor speed	450*/600/900	900/1200*	450*/600/900	900/1200*				
Tyres	380/55-17	380/55-17	380/55-17	380/55-17				
Swath deflector	-	-	-	-				
Wide spreading kit	0	0	0	0				

• = Standard 0 = Optional - = Not available * = Optional



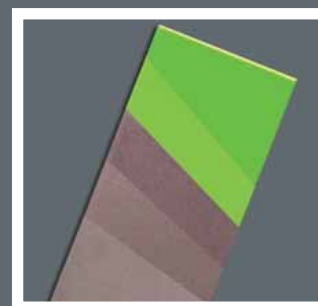
DEUTZ-FAHR : A full range of forage harvesting equipment



Deutz-Fahr offers you a full range of forage harvesting equipment: drum and disc mowers and mower conditioners, tedders, rakes, fixed and variable chamber round balers, big square balers and bale wrappers.

Continuous innovation and elaborate field testing make Deutz-Fahr a prominent supplier of state of the art forage harvesting equipment.

The experienced network of Deutz-Fahr dealers assure you of a professional after sales service and a prompt spare parts delivery.



Deutz-Fahr forage harvesting machines are protected by a Duracoat powder paint coating. The result is a sealed, extremely hard wearing and attractive finish. Deutz-Fahr's paint quality ensures a longer life for your machine, even in the most corrosive conditions.

This documentation is not binding. Availability of models, specifications and optional equipment may differ from country to country. Please consult your local dealer. Specifications and design are subject to change without notice. Printed in Denmark. © Kverneland Group F2281-GB

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FORAGE HARVESTING.