

Mower Conditioners



You can't rely on the weather. But you can rely on your John Deere MoCo.

Tight schedules. Unpredictable weather. The two most important challenges every farmer or contractor faces. John Deere's range of 14 high quality mower conditioners take away the uncertainty.

They combine uncompromising build quality and high performance cutting. Add to this our High Performance Conditioning System, which promotes faster drying, saving you time and lowering your fuel costs.

Whatever your farm. Whatever your business. You'll find a mower conditioner to meet your needs.





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Halve drying time. Boost harvesting performance.

Compared to traditional cutting with a conventional mower, crops cut with a mower conditioner dry in half the time. The conditioner helps remove the wax coating on the crop to let moisture escape. It also creates large, fluffy windrows, which allow air to circulate among the crop, promoting even faster drying. So you can cut in the morning when the sugar levels are highest and harvest in the afternoon. This reduces the risk of grass getting wet if the weather is changeable and vital nutrients being washed out.

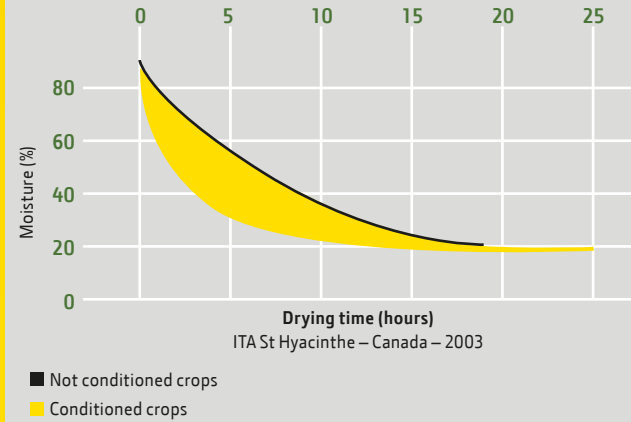
Save fuel. Cut costs.

A mower conditioner also saves you fuel – your most expensive running cost. With a MoCo, you can combine three operations in one – cutting, drying and windrowing. So you no longer have to cut with a mower, dry with a tedder and then windrow with a rake. Three operations, three times as many tractor hours.

Manage windrows. Work smarter.

Many of our mower conditioners include grouper and spreading options to improve your windrow management. A wide spread kit spreads the cut crop across the machine's width for even faster drying. A windrow forming kit lays two rows side by side and a grouper brings together two rows. These options create larger windrows and reduce the number of passes for a baler or forager, saving even more time and fuel.

A grouper creates a single windrow for more efficient pick up. The optional widespread kit minimises drying time.





Why a John Deere mower conditioner?

High performance cutterbar. Solidly built.

Low profile cutterbar and efficient platform suspension ensure a perfect cut in all conditions.

Clean cutting

The blades produce a clean cut even in light grasses. This promotes faster regrowth and shorter harvesting cycles.

Low cutting

Cut as low as 20 mm and handle tough, tangled crops with ease.

Easy maintenance

Servicing is fast thanks to the excellent access to the cutterbar.

Foreign object protection

The suspension system responds quickly to hidden obstacles, minimising potential damage.

Tool free adjustment

The distance between the tine tips and conditioning hood can be adjusted without tools for changing conditioning intensity.

Wear Caps

Replaceable wear caps take the beating so your discs last longer. They're open on the end so debris can't pack in tight around the nut. Hardware and knife changes are easier and faster.

Time Saving Shear Hub

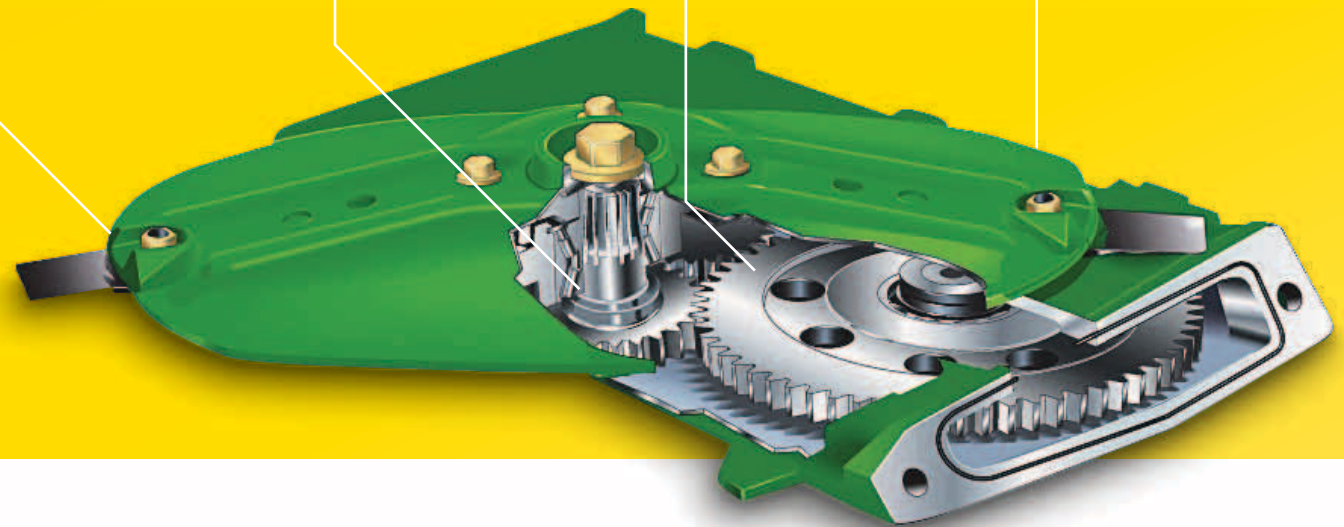
The disc on each module is attached to the shearhub. If you hit an obstruction that stops the disc, splines on the hub will shear, protecting the gear drive. Repairs take minutes rather than hours.

Smooth Running

Each module has two large idler gears and one drive gear that run in oil. Discs run quiet and cool, even with a knife tip speed of more than 280 km per hour.

Modular construction

John Deere's diagonal-cut modules are made of nodular iron. Nodular cast iron is significantly stronger than gray iron and is highly impact resistant.





Urethane rollers. Gentler conditioning.

Conditioning rolls are a gentler alternative to an impeller for tender crops like alfalfa or thick clovers. The intermeshing rolls crimp the crop without breaking the leaves and preserve the nutrients. John Deere rolls are precision-formed from urethane for uniform spacing and even crop drying.

Ultimate control

The conditioning hood can be moved to bring the crop closer to the impeller. The closer the crop, the more aggressive the conditioning and the faster the drying. On the 600 and 800 models, the parallelogram mounting allows you to adjust the grass flow evenly over the whole surface of the conditioning hood.

Steel impellers. Precision engineered.

Wide adjustment range

The large variable distance between the tines and the conditioning hood give you greater versatility.

Accurately balanced

Eliminates vibration for longer operating life, greater operator comfort and increased machine uptime.

Low wear

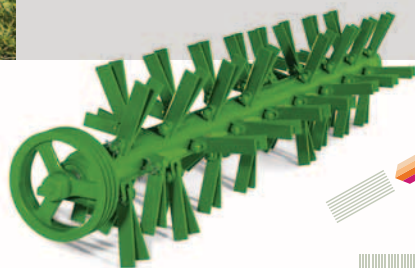
Steel tines are stronger than plastic alternatives and are free to move, so they are protected if a foreign object hits them.

Faster working speeds

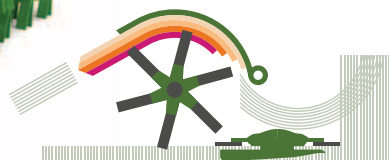
Each tine weighs 1 kg, giving the impeller very high inertia. This helps gather high density crops with ease, moving it through smoothly for high working speeds and a clean field.

High Performance Conditioning System

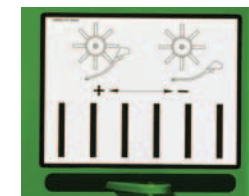
The 600 and 800 Series feature a new pre-loaded tine design. With the highest number of tines per metre on the market and a new parallelogram conditioning hood, these machines deliver high performance conditioning.



Steel impellers.



Conditioning hood.



Tool free adjustment.



Urethane rollers.

Heavy duty design. A powerful partner.

Used in combination with a rear mounted or trailed mower conditioner you can cut up to 6 ha per hour more. Front mounted MoCo are also great for working in tight spaces and alongside hedges or fences.

Strong integrated platform Heavy duty mountings on a single frame for excellent stability and long life.

Smooth ground following The trapezium suspension floats over uneven ground without contaminating the crop.

Simple, reliable design Conditioning intensity and windrow width can be adjusted without tools. The 131 is also available with either an impeller or conditioning rolls.

Consistent cutting Same cutting quality as rear mounted or trailed MoCo.

Constant cutting pressure

Suspension springs on the 228A maintain constant down pressure on the cutting bed. Should you hit an obstacle, the MoCo pivots, lifting the cutterbar over the obstruction and then returning it to the previous cutting height.

The 131 front mounted model features hydro-pneumatic suspension to follow contours or compensate for uneven soft ground, preserving crop stubble.

Easy to manoeuvre
Front mounted MoCo are great for tight spaces



324A and 328A are equipped with a higher, easy to lock jackstand.

Simple to use. Easy to own.

Our rear mounted mower conditioners are a proven, heavy duty design.

The 324A, 328A and 331 MoCos feature a pivot frame that follows the contour of your field for a consistent cut and smooth ride. The trapezium based breakaway system protects the MoCo from wear and damage caused by obstacles in the field.

Quick knife system

Replace a complete knife set in minutes with no specialist tools.

Easy to transport

Folds horizontally to less than 2.5 m, providing excellent rear visibility and eliminating transport constraints.

Choice of conditioners

Choose either an impeller or conditioning rolls. (Rolls not available on 331).

Highly manoeuvrable

Raise and lower hydraulically from the cab for faster, tighter turns.

Fast drying

Produce wide, fast drying swath to windrows as narrow as 0.9 m all day long.



MoCos fold back horizontally and lock into place for a transport width of less than 2.5 m.

Highly dependable. Consistent cutting.

If reliability is your number one priority, you can't beat a classic John Deere side-pull mower conditioner. The 1355 and 1365 MoCo are solidly built and have an excellent reputation and resale value.

Massive strength

The cutterbar is completely supported by the machine's frame to reduce stress and extend working life.

Highly manoeuvrable

The swivel hitch improves manoeuvrability and makes connecting and disconnecting simple and quick.

Efficient conditioning

The tried and tested V tine impellers generate high inertia which helps reduce power and fuel consumption.

Windrow solutions

An adjustable shield can be installed for laying two windrows side by side and windrow management solutions are available.



Built for strength. Engineered to perform.

Featuring a new, more aggressive impeller with cast iron pre-loaded tines you'll get more done with a 600 Series mower conditioner. Producing a windrow shape that decreases crop drying time, these MoCos are built to handle tough field conditions at high speed.

Tough cutterbar

The modular design means individual sections can be replaced if damaged, instead of the whole cutterbar.

Highly stable platform

Low centre of gravity and tongue shape provide excellent stability, even on slopes.

Choice of conditioners

Aggressive impeller with cast iron pre-loaded tines or gentler, urethane conditioning rolls.

Windrow versatility

Choice of standard windrow shield, powered forming shield or grouper.

Faster cutting

High performance suspension for faster mowing speeds.



Optimum throughput. Faster working.

The centre pivot design of the 830 and 835 mower conditioners lets you mow back and forth across a field and get up to 15% more crop cut than a side pull MoCo. Their welded construction ensures excellent reliability while big, wide tyres reduce soil compaction by a third.

Excellent manoeuvrability

Enter narrow fields with ease.

Windrow versatility

There's a choice of standard windrow shield, powered forming shield or grouper.

Time saving protection

Replaceable shear hub on each cutting disc shears if the knife hits an obstruction, protecting the gear drive.

High Performance Conditioning System

Aggressive impeller with pre-loaded tines and parallelogram mounted conditioning hood. For gentler crops, urethane conditioning rolls are available.

Adjustable cutting angle

Optional hydraulic tilt control lets you match the cutting angle to the crop.

Faster cutting

High performance suspension for faster mowing speeds.





Uncompromising performance. Maximum capacity.

Combine a 381, 388 or 488 rear mounted mower conditioner with a front MoCo and cut up to 8.8 m. Now add guidance and you'll take your cutting performance to a new level.

Easy to transport

Despite their size, each unit folds vertically with an overall width of 3 m.

Fingertip adjustment

Control all headland operations from the cab.

High capacity grouper

The 488 is available with a conveyor belt grouper to create one central windrow to maximise your forage harvester's performance.

Works well on slopes

The lateral position of the platforms can easily be adjusted for cutting on hills or curves.





Maximise cutting efficiency. Improve work quality.

John Deere offers a range of guidance options for both John Deere and other makes of tractor. AutoTrac steers perfect parallel or curved lines and is available on both John Deere as well as many other brands. iTEC Pro is available on John Deere 7R and 8R tractors and provides fully automated equipment control including headland turns for true hands-free driving.

Reduce soil compaction

Precisely follow different tracks every time you cut the same field.

Work consistently

Maintain a constant speed for uniform windrows.

Cut faster

Drive at maximum speed and optimise your cutting width thanks to the free SF1 signal.













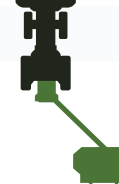
Bale or forage easier

Straight and even windrows are easier to pick up.

Manage your business

Documentation and mapping systems provide harvesting data for accurate customer billing.

Cutting widths and combinations

		FRONT MOUNTED				
		131		228A		
		Width of double windrows (m)*	Combined cutting width (m)	Width of double windrows (m)*	Combined cutting width (m)	
Rear mounted - single	324A	3.90 – 4.65	–	–	–	
	328A	4.15 – 5.05	–	–	–	
	331	4.40 – 5.35	6.2	4.10 – 5.00	5.9	
Rear mounted – twin	381	1.3 – 2.5	8.1	1.3 – 2.5	8.1	
	388	1.3 – 2.75	8.8	1.3 – 2.75	8.8	
	488	1.4 – 2.75	8.8	1.4 – 2.75	8.8	
Side pull	1355	3.85 – 4.45	5.6	3.55 – 4.10	5.3	
	1365	4.15 – 4.95	6.1	3.85 – 4.60	5.9	
	630	4.20 – 5.05	6.1	3.90 – 4.70	5.8	
	635	4.50 – 5.50	6.6	4.20 – 5.15	6.3	
Centre pivot	830	4.20 – 5.05	6.6	3.90 – 4.70	5.8	
	835	4.50 – 5.05	6.6	4.20 – 5.15	6.3	

*Windrow width is linked to several parameters (cutting speed, type of crop, yield, etc.), so maximum values can vary depending on conditions.



Front and rear mounted twin mower conditioner

Front and rear mounted single mower conditioner



Front mower conditioner



Maximising your uptime

Our dealer network and support services are dedicated to keeping you cutting all day long.

Highly trained, certified technicians are backed up by an advanced parts stocking database which ensures your dealer retains stock of all common seasonal parts.

Genuine John Deere parts are engineered and manufactured to rigorous standards. They are designed, tested and built just for John Deere machines. There is no substitute for genuine John Deere parts:

- **Guaranteed peace of mind**
Comprehensive 12-month warranty.
- **Fit first time**
Saving you time and minimising labour costs.
- **Maintains equipment value**
Get a better price if you ever decide to sell.
- **Speedy delivery**
Our worldwide distribution network will get parts to your dealer fast.
- **Seasonal hours**
During the harvest season your dealer is open extra long hours.



Mower Conditioner Specifications

	FRONT MOUNTED			REAR MOUNTED				
	228A	131	324A	328A	331	381	388	488
Recommended tractor PTO power*								
Power	61 kW (80 hp)	76 kW (100 hp)	52 kW (70 hp)	61 kW (82 hp)	76 kW (100 hp)	121 kW (160 hp)	141 kW (190 hp)	163 kW (220 hp)
Cutterbar								
Number of discs	7	8	6	7	8	2x7	2x8	2x8
Number of knives	14 (2/disc)	16 (2/disc)	12 (2/disc)	14 (2/disc)	16 (2/disc)	28 (2/disc)	32 (2/disc)	32 (2/disc)
Disc speed	ca. 3000 rpm	ca. 3000 rpm	ca. 3000 rpm	ca. 3000 rpm	ca. 3000 rpm	ca. 3000 rpm	ca. 3000 rpm	ca. 3000 rpm
Bolted knives	Reversible and retractable	Reversible and retractable	Reversible and retractable	Reversible and retractable	Reversible and retractable	Reversible and retractable	Reversible and retractable	Reversible and retractable
Quick Knife Change	Reversible and retractable	Reversible and retractable	Reversible and retractable	Reversible and retractable	Reversible and retractable	Reversible and retractable	Reversible and retractable	Reversible and retractable
Cutting width	2.80 m	3.1 m	2.4 m	2.8 m	3.1 m	8.1 m	8.8 m	8.8 m
Cutting height – Classic cutterbar.	30 to 80 mm	30 to 80 mm	30 to 80 mm	30 to 80 mm	30 to 80 mm	30 to 80 mm	30 to 80 mm	30 to 80 mm
Cutting height – Quick Knife Exchange Cutterbar	34 to 84 mm	34 to 84 mm	34 to 84 mm	34 to 84 mm	34 to 84 mm	34 to 84 mm	34 to 84 mm	34 to 84 mm
Conditioner (Impeller)								
Tines	Mobile V-shape steel	Mobile V-shape steel	Mobile V-shape steel	Mobile V-shape steel	Mobile V-shape steel	Mobile V-shape steel	Mobile V-shape steel	Mobile V-shape steel
Number of tines	48	54	42	48	54	2x48	2x54	2x54
Orbit diameter of tines	510 mm	510 mm	510 mm	510 mm	510 mm	510 mm	510 mm	510 mm
Rotor speed	888 or 615 rpm	888 or 615 rpm	888 or 615 rpm	888 or 615 rpm	888 or 615 rpm	888 or 615 rpm	888 or 615 rpm	888 or 615 rpm
Drive	Belt	Belt	Belt	Belt	Belt	Belt	Belt	Belt
Conditioning hood opening	28 to 108 mm	10 to 100 mm	10 to 100 mm	10 to 100 mm	10 to 100 mm	10 to 100 mm	10 to 100 mm	10 to 100 mm
Conditioner (rolls)								
Rolls profile		Chevron	Chevron	Chevron				
Rolls diameter		200 mm	200 mm	200 mm				
Rolls speed		1000 rpm	1000 rpm	1000 rpm				
Conditioning rolls pressure		Adjustable	Adjustable	Adjustable				
Drive		3 Belts	3 Belts	3 Belts				
Windrowing								
Windrow width	1.10 to 1.60 m	1.40 to 2.00 m	0.9 to 1.8 m	1.0 to 2.2 m	1.2 to 2.5 m	1.3 to 2.5 m	1.3 to 2.8 m	1.8 to 2.75 m
Wide spread								
Availability	Not available	Optional only with impeller	Standard	Standard	Standard	Optional only with impeller	Optional only with impeller	Not available
Suspension								
Type	Adjustable springs	Adjustable hydro-pneumatic	Adjustable hydro-pneumatic	Adjustable hydro-pneumatic	Adjustable hydro-pneumatic	Adjustable hydro-pneumatic	Adjustable hydro-pneumatic	Adjustable hydro-pneumatic
Dimensions								
Width (transport)	2.96 m	2.99 m	Below 2.5 m	Below 2.5 m	Below 2.5 m	3 m	3 m	3 m
Weight impeller models	1015 kg	1300 kg	1000 kg	1069 kg	1145 kg	2690 kg	2880 kg	4720 kg
Weight rolls models		1370 kg	1050 kg	1125 kg				
Powerline								
PTO speed	1000 rpm	1000 rpm	540 rpm	540 or 1000 rpm	1000 rpm	1000 rpm	1000 rpm	1000 rpm
Protection	Clock- / -anti clockwise Shear bolt	Clock- / -anti clockwise Slip clutch + free wheel	Slip clutch + free wheel	Slip clutch + free wheel	Slip clutch + free wheel	Slip clutch + free wheel	Slip clutch + free wheel	Slip clutch + free wheel
Required tractor equipment								
	1 single acting outlet	1 single acting outlet	1 double acting outlet	1 double acting outlet	1 double acting outlet + 1 single	2 double acting & 1 single acting outlets	2 double acting & 1 single acting outlets	2 double acting & 1 single acting outlets
	Front hitch + "A" frame cat.II	Front hitch + "A" frame cat.II	1 electrical outlet 7 connectors	1 electrical outlet 7 connectors	1 electrical outlet 7 connectors	1 electrical outlet 7 connectors	1 electrical outlet 7 connectors	1 electrical outlet 7 connectors

*Note: The tractor requirements listed above are recommendations. Power requirement and windrows width may vary from crop and field conditions.

	Side pull				Centre pivot	
	1355	1365	630	635	830	835
Recommended tractor PTO power*						
Power	55 kW (75 hp)	67 kW (90 hp)	67 kW (90 hp)	78 kW (105 hp)	78 kW (105hp)	86 kW (115 hp)
Cutterbar						
Number of discs	5	6	6	7	6	7
Number of knives	10 (2/disc)	12 (2 / disc)	12 (2/disc)	14 (2/disc)	12 (2/disc)	14 (2/disc)
Disc speed	2610 rpm	2610 rpm	2650 rpm	2650 rpm	2650 rpm	2650 rpm
Knives	Reversible and retractable	Reversible and retractable	Reversible and retractable	Reversible and retractable	Reversible and retractable	Reversible and retractable
Cutting width	2.5 m	3.0 m	3.0 m	3.5 m	3.0 m	3.5 m
Cutting height	30 to 150 mm	30 to 150 mm	20 to 95 mm	20 to 95 mm	20 to 95 mm	20 to 95 mm
Conditioner (Impeller)						
Tines	Mobile V-shape steel	Mobile V-shape steel	Mobile cast V-shape. Preloaded	Mobile cast V-shape. Preloaded	Mobile cast V-shape. Preloaded	Mobile cast V-shape. Preloaded
Number of tines	49	56	58	72	58	72
Orbit diameter of tines	597 mm	597 mm	597 mm	597 mm	597 mm	597 mm
Rotor speed	870 or 650 rpm (optional 1000)	870 or 650 rpm (optional 1000)	1000 rpm	1000 rpm	1000 rpm	1000 rpm
Drive	3 V powerband belt	3 V powerband belt	3 V powerband belt	3 V powerband belt	3 V powerband belt	3 V powerband belt
Conditioning hood opening	10 to 120 mm	10 to 120 mm	20 to 85 mm	20 to 85 mm	20 to 85 mm	20 to 85 mm
Conditioner (rolls)						
Rolls material – profile	–	–	Urethane -Chevron	Urethane -Chevron	Urethane -Chevron	Urethane -Chevron
Rolls Diameter	–	–	254 mm	254 mm	254 mm	254 mm
Rolls speed	–	–	640 rpm	640 rpm	640 rpm	640 rpm
Conditioning rolls pressure	–	–	Adjustable by crank	Adjustable by crank	Adjustable by crank	Adjustable by crank
Drive	–	–	3 V powerband belt	3 V powerband belt	3 V powerband belt	3 V powerband belt
Windrowing						
Windrow width	0.7 to 1.3 m	0.8 to 1.8 m	0.9 to 2.0 m	1.0 to 2.4 m	0.9 to 2.0 m	1.0 to 2.4 m
Wide spread						
Spreading with	Optional swathboard	Optional swathboard	Impeller	Impeller	Impeller	Impeller
Suspension						
Type	Adjustable springs	Adjustable springs	Adjustable springs	Adjustable springs	Adjustable springs	Adjustable springs
Dimensions						
Width (transport)	2.58 m	3.06 m	3.0 m	3.5 m	3.0 m	3.5 m
Weight	1770 kg	1930 kg	2300 kg (with impeller) 2380 kg (with rolls)	2420 kg (with impeller) 2540 kg (with rolls)	2560 kg (with impeller) 2640 kg (with rolls)	2680 kg (with impeller) 2760 kg (with rolls)
Length (transport)	5.50 m	5.50 m	7.00 m	7.30 m	7.00 m	7.30 m
Tyres						
Size	10.0/75x15.3-8 PR	10.0/75x15.3-8 PR	11.5/80-15.3-8 PR 13/75-16-10 PR	11.5/80-15.3-8 PR 13/75-16-10 PR	11.5/80-15.3-8 PR 13/75-16-10 PR	11.5/80-15.3-8 PR 13/75-16-10 PR
Powerline						
PTO speed	540 rpm	540 rpm or 1000 rpm	540 rpm or 1000 rpm	1000 rpm	540 rpm or 1000 rpm	540 rpm or 1000 rpm
Protection	Slip clutch + free wheel	Slip clutch + free wheel	Slip clutch (540 rpm)+ free weell	Free wheel	Slip clutch (540 rpm)+ free weell	Free wheel
Required tractor equipment						
	1 double + 1 single acting outlet 1 electrical outlet 7 connectors	1 double + 1 single acting outlet 1 electrical outlet 7 connectors	1 double + 1 single acting outlet 1 electrical outlet 7 connectors	1 double + 1 single acting outlet 1 electrical outlet 7 connectors	1 double + 1 single acting outlet 1 electrical outlet 7 connectors	1 double + 1 single acting outlet 1 electrical outlet 7 connectors
Grouper	NA	Optional				
Power required with grouper		72 kW (100 hp)	75 kW (100 hp)	86 kW (115 hp)	86 kW (115 hp)	86 kW (115 hp)
Width of double windrow in first cut						
With standard grouper			2.0 m	2.4 m	2.0 m	2.4 m
Width in transport		Within moco width	Within moco width	Within moco width	Within moco width	Within moco width
Length in transport		Moco length + 870 mm	Moco length + 1.0 m	Moco length + 1.0 m Long grouper also available	Moco length + 1.0 m	Moco length + 1.0 m Long grouper also available

*Note: The tractor requirements listed above are recommendations. Power requirement and windrows width may vary from crop and field conditions.

The hay and forage specialists

Thanks to weekend opening hours, extended seasonal hours and on-going training on the latest information and techniques, our professional dealers are the perfect partner for all your hay and forage needs.

They're backed up by the advanced logistics of the John Deere European Parts Distribution Center, which ensures fast delivery to maximise your uptime even during the peak harvesting season.

Choose from:

- 9 Square balers
- 4 Fixed chamber balers
- 7 Variable chamber balers
- 3 Combination wrapping balers
- 7 Self propelled forage harvesters
- 14 Mower conditioners



John Deere Financial – A range of finance options as powerful as our products.
Contact your John Deere dealer for a comprehensive range of finance options to suit the specific needs of your business.
Not available in all countries please consult your local dealer.

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