

# MOWER CONDITIONERS

FASTER. BETTER. FORAGE.



**JOHN DEERE**

NOTHING RUNS LIKE A DEERE

# WEATHER-PROOF YOUR HARVEST





When you use a MoCo, you're not taking any chances. It produces quick-drying forage that you can harvest faster – before that unexpected rain hits your fields.

Our range of 14 high performance MoCos combine unrivalled cutting performance with highly effective conditioning for much faster drying forage. You'll save time, you'll save on fuel, and you will produce a better quality forage. Find the model that suits your operation and produce better forage faster.

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## **BOTTOM LINE GOODNESS**

Being able to produce a better, more nutrient-rich product is an advantage. But when that also means big operational cost savings, you've got a winner. Running a MoCo saves you fuel. What used to take three tractor runs – cutting, drying and windrowing – is accomplished with just one machine, in less time. And for full windrow versatility we offer standard windrow shields, optional groupers or powered windrow forming shield options. Enjoy your new bottom line.



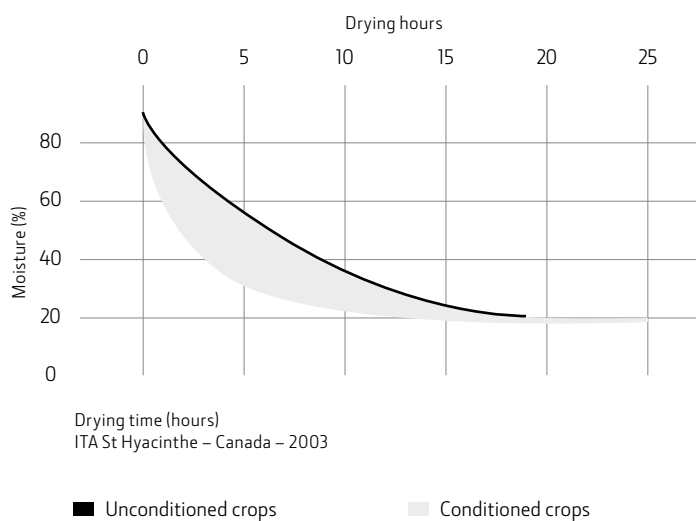


# MORE SPEED, HIGHER QUALITY

Give your harvesting performance a serious boost. Crops cut with a mower conditioner dry in half the time required by crops cut with a conventional mower.

This is how it works: The conditioner helps remove the wax coating on the crop to let moisture escape unobstructed. The conditioned crop forms large, fluffy windrows which allow air to circulate, promoting even faster drying. Overall, the drying process is so fast, that you significantly reduce the risk of the crop getting rained on, washing out vital nutrients. Ultimately, you're producing better quality faster.

Windrow versatility: Many of our MoCos have grouping and spreading options that allow you to manage windrows to match individual requirements and preferences.



# MEET YOUR MOCO

From small and agile to very wide high-volume mowing – there's a Moco with your name on it in our line-up.

## COMBINATION MOWING

By combining a front mounted MoCo with a single rear mounted MoCo or one of our trailed models you can drastically reduce the number of passes required for even the largest fields.



**FRONT MOUNTED**  
(Page 10-11)

Use in combination with rear mounted or trailed MoCo and cut more, even in tight spaces.



**REAR MOUNTED SINGLE**  
(Page 12-13)

Proven, heavy duty MoCo that offers a reliably smooth cut in any field.



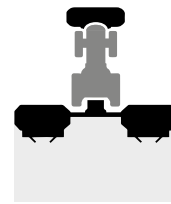
**SIDE PULL**  
(Page 14-15)

Trailed MoCo built for speed and rapid crop drying on flat and uneven ground.



**CENTRE PIVOT**  
(Page 16-17)

Reliable centre trailed MoCo that increases pass by pass accuracy and crop cut by 15%.



**REAR MOUNTED TWIN**  
(Page 18-19)

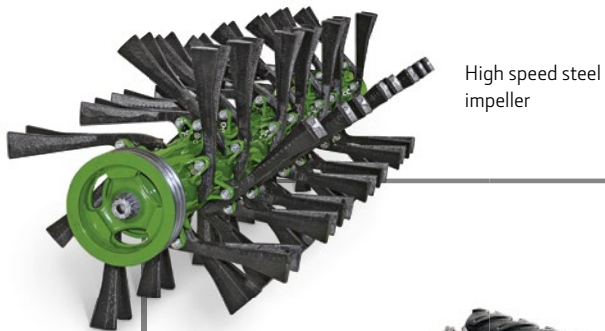
Breakaway system and hydropneumatic suspension – for our closest, smoothest cut.



FRONT MOUNTED		228A		F310R		F350R	
		COMBINED WINDROWS WIDTH (M)	COMBINED CUTTING WIDTH (M)	COMBINED WINDROWS WIDTH (M)	COMBINED CUTTING WIDTH (M)	COMBINED WINDROWS WIDTH (M)	COMBINED CUTTING WIDTH (M)
REAR MOUNTED SINGLE	324A	–	–	3.90 - 4.65	5.30	–	–
	328A	–	–	3.75 - 5.10	5.70	3.95 - 5.35	6.10
	331	4.10 - 5.00	5.70	4.00 - 5.40	6.00	4.20 - 5.65	6.40
REAR MOUNTED TWIN	R870R	–	–	3.85 - 5.40	8.70	–	–
	R950R	–	–	4.10 - 5.70	9.50	–	–
	R990R	–	–	–	–	4.30 - 5.95	10.00
SIDE PULL	1365	3.85 - 4.60	5.60	3.75 - 5.00	6.00	3.95 - 5.25	6.40
	630	3.90 - 4.70	5.60	3.80 - 5.10	6.00	4.00 - 5.35	6.40
	635	4.20 - 5.15	6.10	4.10 - 5.55	6.40	4.30 - 5.80	6.80
CENTRE PIVOT	830	3.90 - 4.70	5.60	3.80 - 5.10	6.00	4.00 - 5.35	6.40
	835	4.20 - 5.15	6.10	4.10 - 5.55	6.40	4.30 - 5.80	6.80

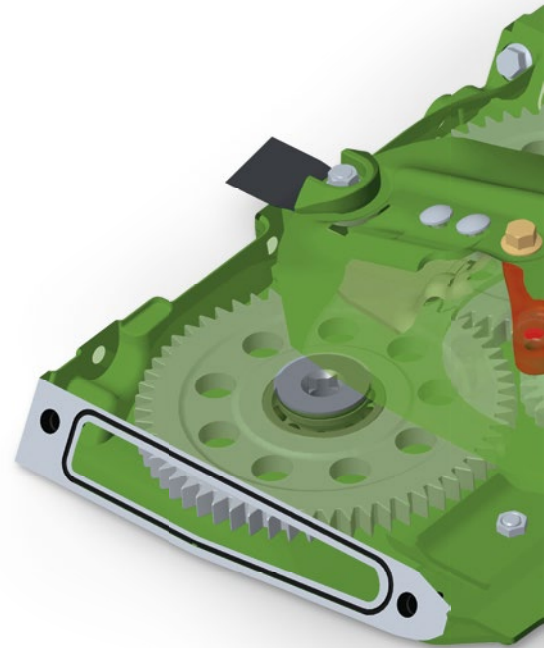
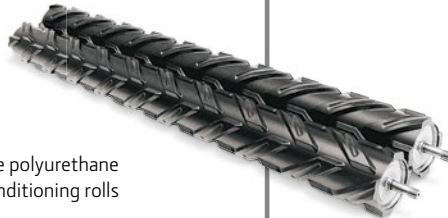
# A CUT ABOVE

There's a lot to like about our cutterbar design. It's peerless precision cut promotes faster regrowth. The quick-response suspension system minimises damage, and servicing is fast with a cost saving advantage thanks to its easy access modular design.



High speed steel impeller

Gentle, effective polyurethane conditioning rolls



## TWO CONDITIONERS, ALL CROPS

If you're looking for speed in high-density crops, our high-inertia steel impeller conditioner is built for it. Bonus: no tools needed to adjust the distance between the tine tips of the impeller and the conditioning hood to change conditioning intensity. Some MoCo models have preloaded tines for an even smoother swath and more speed. For gentler conditioning of tender crops like alfalfa, conditioning rolls get great results. The rolls crimp the crop without breaking the leaves and preserve more nutrients.





### SMOOTH AND QUIET

Discs run quiet and cool even at a knife tip speed of more than 28 km per hour, as each module has two large idler gears and one drive gear that run in oil.

### PROTECTION BUILT IN

When you hit an obstacle, splines on the shear hub will shear to protect the gear drive. Replacing the shear hub is fast and clean – no need to open the cutterbar.



### PRACTICAL BY DESIGN

We've taken knife changes to a new level of convenience by developing a custom tool for it – our hard-wearing quick-change knives save you time and money.



### ECONOMICAL BY DESIGN

The design of our high-strength nodular-iron cutterbar is modular. If parts of the cutterbar become damaged, only the affected module needs to be replaced, not the entire bar. That's cost-savings built-in.



### LONGER DISC LIFE

We're making low-cost replaceable wear caps take the beating instead of your discs. They're open on the end, so debris can't pack in tight around the nut.

# PRODUCTIVITY EXPERTS

## FRONT MOUNTED

When you're working in tight spaces, along hedges or fences, manoeuvrability gets the job done. Out in the open, you want more width. Our precise and agile front mounted MoCos are easily width-enhanced with rear mounted or trailed options.



Our 228A model: Tried and true, with heavy duty mountings on a single frame for unrivalled stability and durability. Enjoy the same cutting quality you get from a rear mounted or trailed MoCo, while its trapezium suspension delivers exceptional performance over uneven ground, without damaging crops.



### F310R AND F350R

You'll like these two: Cut more, faster, even in bumpy terrain, even at high speeds, with lower fuel consumption. Sounds good? Then these are the MoCos for you. Their new flotation system significantly lowers drag resistance – the premium hydro-pneumatic suspension's frame floats smoothly over rough terrain. A choice of two rotor speeds and adjustable conditioning flaps allow you to quickly adapt performance to any forage type. And with improved visibility and more blades over a cutting width of up to 3.5 m, this is MoCo performance that truly stands out.



#### CLOSE TO THE GROUND

The premium hydro-pneumatic suspension system on the F310R and F350R follows the contours of the ground using a frame design that maximises your cutting on bumpy terrain – even at high speeds.



You never know what's out there hiding on the ground, but you also needn't worry about it. Your MoCo is protected from the wear and damage caused by debris in the field – our upgraded trapezium based breakaway system makes sure of it.

For quicker, tighter turns, you can conveniently raise and lower the implement from the cab. And if you hit an obstacle, the MoCo automatically pivots and actively lifts the cutterbar over the obstruction, then brings it back down to the previous cutting height.





# EASY TO USE, EASY TO OWN

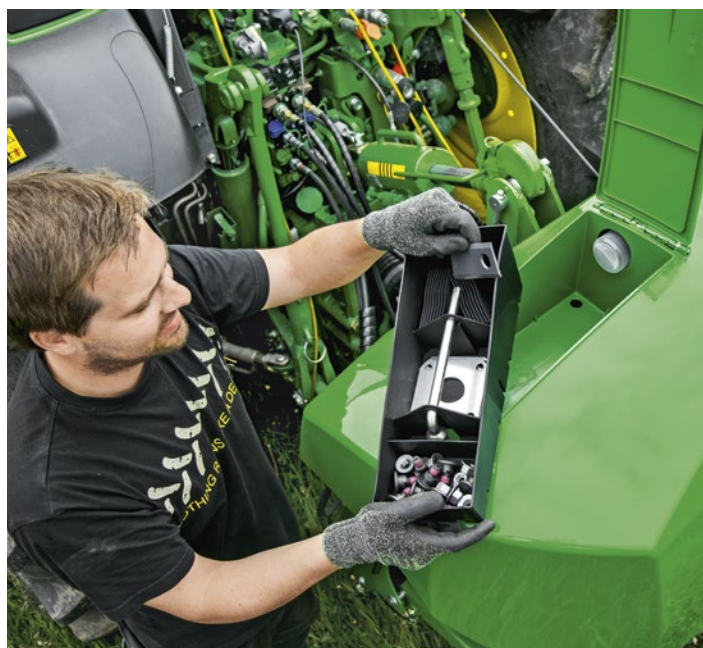
## REAR MOUNTED SINGLE

The uniform cut and smooth ride of the 324A, 328A and 331 rear mounted MoCos, their excellent transport characteristics, and a choice between impeller or conditioning rolls will have you knocking out more hectares in tip top quality.

## WORKS YOUR WAY, ALL THE WAY

The pivot mainframe of these MoCos closely hugs field contours to deliver a consistent cut, hectare after hectare. The frame features two hook-up positions to facilitate different amounts of overlap without misaligning the rear hook of your tractor. Eliminating transport constraints, the units fold to less than 2.5 m with excellent rear visibility. And a choice between an impeller and conditioning rolls (not available on the 331) will have you producing fast drying swath to windrows as narrow as 90 cm.

Effective shielding with some room to spare – we used it to include a conveniently located toolbox, so you'll always have what you need at hand.



# TRUSTED PERFORMANCE

## SIDE PULL

When the days run long in the field, when there always seem to be more hectares in front of you than behind you, it's good to know that your MoCo was built for just that: steadfast performance that will never quit.



## 600 SERIES

The 600 Series will cut fast, but MoCo speed alone is not everything. How about speeding up your baling or SPFH work? This is where the 600 series MoCos shine. Featuring a more aggressive impeller with cast iron pre-loaded tines, you'll produce a windrow shape that decreases crop drying time and maximises the working speed of the baler or SPFH. Of course, urethane conditioning rolls are also an option. And the tough cutterbar's modular design saves real money since you only need to replace damaged modules, not the whole bar. The optional groupers or powered windrow forming shields provide extra windrow versatility.



The tongue shape and low centre of gravity of the 600-Series' platform provide that extra stability edge you need, particularly if your environment includes slopes.





### **1365 SERIES**

What do you get when you pair highly manoeuvrable durability with efficient conditioning and versatile windrow management solutions? Yes, this one. The 1365 Series' cutterbar is completely supported by the frame to reduce stress and extend working life. The swivel hitch improves manoeuvrability, and steel V tine impellers generate high inertia to help reduce power and fuel consumption. Add to that an optional adjustable shield for laying two windrows side by side, and you have the MoCo you've been looking for.





Tough enough to be a John Deere, but gentle on your soil. The welded construction of the 830 and 835 MoCos guarantees durable reliability while large, wide tyres reduce soil compaction by as much as a third.



# PERFORMANCE CENTRE

## CENTRE PIVOT

Increase your mowing and conditioning performance by up to 15% with our 830 and 835 MoCos. The centre pivot design adds extra manoeuvrability and allows you to mow on either side of the tractor so that you can go back and forth across the field.

Add some speed, precision and protection to your mowing. Our high performance suspension lets you mow at higher speeds, while optional hydraulic tilt control lets you match the cutting angle to the crop. Speaking of speed, you'll also appreciate the time saving shear hub design. The disc on each module is attached to the shear hub. When you hit an obstacle that stops the disc, splines on the hub will shear, protecting the gear drive. Repairs take minutes rather than hours.



## PEERLESS CONDITIONING

The high performance conditioning systems of the 830 and 835 MoCos feature an aggressive impeller. For your more finely textured crops, you will want to opt for the urethane conditioning rolls.

# MOW BIG

## REAR MOUNTED TWIN

The twin rear-mounted R870R, R950R and R990R triple mower conditioners cut up to 9.90 m when used with a front MoCo. Bring on the big fields.

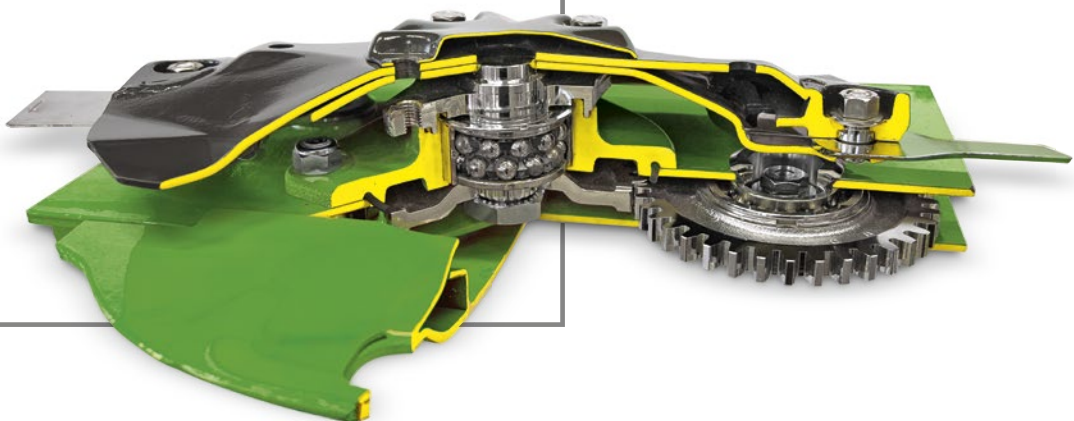
Size isn't all this trio has to offer. Our new flotation system delivers a close cut with exceptional ground following ability on sloping ground or in hilly terrain. We also put in a new, easy to use monitor to control hydraulic functions and conditioner speeds. And we've built in cost savings: Cutter bars that require no oil change, feature lubricated-for-life parts and quick-change knives save you time and money. To prevent potential maintenance costs, our pioneering hydraulic breakaway system lifts the cutting platform to pass over obstructions without damage.



When wider is better: Use in combination with the F350R and your single passes are up to 10 m wide – with up to 50 cm hydraulic overlapping possible per side.

### CUT FAST, STAY ACCURATE

Speed and accuracy are friends here. For the closest cuts pass after pass, the rotary disc cutter bar in the R870R/R950R runs seven cutting discs, while the R990R runs eight.





### **STAYS CLOSE, CUTS CLOSE**

Pick up more forage per acre. We keep the cutting platform close to the ground at all times, thanks to our hydro-pneumatic suspension system with its integrated frame design – keeping the cut nice and even.



### **DRIES FAST, STAYS HEALTHY**

Pre-loaded steel tines produce a smoother swath, remove the waxy coating from forage and facilitate faster drying times while keeping the crop potentially nutritional.

# EFFICIENCY WHILE YOU RELAX

Machines are just better at some things. Let AutoTrac precision-steer your tractor to mow more accurately and always make a full cut – while it maintains constant maximum speed to generate beautifully uniform windrows at a faster pace than ever\*.

\* requires Generation 4 CommandCenter, StarFire receiver and CommandCenter AutoTrac activation





## OPTIMISING PRODUCTIVITY

### CONNECTED FARM MANAGEMENT

The John Deere Operations Center on MyJohnDeere.com is the central platform for connecting your machines, operators and fields. It's easy to use, easily accessed from anywhere, on any device and lets you view, edit and share data for full fleet connectivity.

MyJobConnect is our easy-to-use job management solution which connects to the John Deere Operations Center. It includes the MyJobsManager and MyJobs mobile apps.

MyJobConnect Premium also includes the MyLogistics app for enhancing overall operational efficiency.

### PRECISION HEADLANDS

You don't need to do it all. Let iTEC Pro take over steering and tractor controls to create picture-perfect headlands.

Increase accuracy and profitability while reducing operator fatigue and time spent in each field.

## SPECIFICATIONS

	228A	F310R	F350R	324A	328A	331	R870R	R950R	R990R
	Front mounted			Rear mounted					
<b>RECOMMENDED TRACTOR PTO POWER*</b>									
Power	61 kW (80 hp)	76 kW (100 hp)	91 kW (120 hp)	52 kW (70 hp)	61 kW (82 hp)	76 kW (100 hp)	155 kW (210 hp)	170 kW (230 hp)	185 kW (250 hp)
<b>CUTTERBAR</b>									
Number of discs	7	7	8	6	7	8	2 x 7	2 x 8	2 x 8
Bolted knives reversible and retractable	■	–	–	■	■	■	–	–	–
Quick knives change reversible and retractable	■	■	■	■	■	■	■	■	■
Cutting width	2.80 m	3.10 m	3.50 m	2.40 m	2.80 m	3.10 m	8.30 to 8.70 m	9.10 to 9.50 m	9.50 to 9.90 m
Front/rear cutting overlap	–	–	–	–	–	–	0.30 to 0.50 m	0.30 to 0.50 m	0.30 to 0.50 m
Cutting height – Classic cutterbar	30 to 80 mm	–	–	30 to 80 mm	30 to 80 mm	30 to 80 mm	–	–	–
Cutting height – Quick Knives Exchange Cutterbar	34 to 84 mm	35 to 85 mm	35 to 85 mm	34 to 84 mm	34 to 84 mm	34 to 84 mm	35 to 85 mm	35 to 85 mm	35 to 85 mm
<b>CONDITIONER (IMPELLER)</b>									
Tines	Mobile V-shape steel	Mobile preloaded I-shape steel		Mobile V-shape steel			Mobile preloaded I-shape steel		
Number of tines	48	4 in V + 76 straights	4 in V + 100 straights	42	48	54	2 x (4 in V + 76 straights)	2 x (4 in V + 76 straights)	2 x (4 in V + 76 straights)
Orbit diameter of tines	510 mm	540 mm	540 mm	510 mm	510 mm	510 mm	540 mm	540 mm	540 mm
Rotor speed	888 or 615 rpm	1,000 or 755 rpm	1,000 or 755 rpm	888 or 615 rpm	888 or 615 rpm	888 or 615 rpm	1,000 or 755 rpm	1,000 or 755 rpm	1,000 or 755 rpm
Drive	Belt	Gearbox	Gearbox	Belt	Belt	Belt	Gearbox	Gearbox	Gearbox
Conditioning hood opening	28 to 108 mm	10 to 50 mm	10 to 50 mm	10 to 100 mm	10 to 100 mm	10 to 100 mm	10 to 50 mm	10 to 50 mm	10 to 50 mm
<b>CONDITIONER (ROLLS)</b>									
Rolls profile	–	Losange	–	Chevron	–	–	–	Losange	–
Rolls diameter	–	240 mm	–	200 mm	–	–	–	240 mm	–
Rolls speed	–	1,000 rpm	–	1,000 rpm	–	–	–	1,000 rpm	–
Conditioning rolls pressure	–	Adjustable	–	Adjustable	–	–	–	Adjustable	–
Drive	–	Drive Line	–	3 Belts	–	–	–	Drive Line	–
<b>WINDROWING</b>									
Windrow width	1.10 to 1.60 m	1.20 to 2.40 m	1.20 to 2.40 m	0.90 to 1.80 m	1.00 to 2.20 m	1.20 to 2.50 m	1.30 to 3.20 m		
<b>WIDE SPREAD</b>									
Availability	–	–	–	■	■	■	■	■	■
<b>SUSPENSION</b>									
Type	Adjustable springs	Adjustable hydro-pneumatic							
<b>DIMENSIONS</b>									
Width (transport)	2.96 m	2.99 m	3.48 m	Below 2.50 m			2.95 m	3 m	3.35 m
Weight impeller models	1,015 kg	1,270 kg	1,350 kg	1,000 kg	1,069 kg	1,145 kg	3,030 kg	3,211 kg	3,260 kg
Weight rolls models	–	–	–	1,050 kg	1,125 kg	–	–	–	–
<b>POWERLINE</b>									
PTO speed	1,000 rpm	1,000 rpm	1,000 rpm	540 rpm	540 or 1,000 rpm	1,000 rpm	1,000 rpm	1,000 rpm	1,000 rpm
PTO drive	Clockwise and anticlockwise			Clockwise					
Protection	Shear bolt	Slip clutch + free wheel							
<b>REQUIRED TRACTOR EQUIPMENT</b>									
Hydraulic and electrical connections	1 S.A outlet			1 D.A outlet + 1 electrical 7 connectors			2 D.A outlet + 1 S.A+, 1 electrical 7 connectors		
Tractor hook up	Front hitch + "A" frame cat. 2	Front hitch cat. 2		Rear 3 point hitch cat. 2			cat 3 or 4N comp. Quick hitch 3/4N		

Legend: ■ Available – Not available

\*The tractor requirements listed above are recommendations. Power requirement and windrows width may vary from crop and field conditions. Power indicated for rear wide cut, R870R, R950R and R990R include front moco.

\*\*1,000 RPM available as option.

	1365	630	635	830	835
	Side pull			Centre pivot	
<b>RECOMMENDED TRACTOR PTO POWER*</b>					
Power	67 kW (90 hp)	67 kW (90 hp)	78 kW (105 hp)	78 kW (105 hp)	86 kW (115 hp)
<b>CUTTER BAR</b>					
Number of discs	6	6	7	6	7
Bolted knives reversible and retractable	■	■	■	■	■
Quick knife change reversible and retractable	–	–	–	–	–
Cutting width	3.00 m	3.00 m	3.50 m	3.00 m	3.50 m
Cutting height	30 to 150 mm	20 to 95 mm	20 to 95 mm	20 to 95 mm	20 to 95 mm
<b>CONDITIONER (IMPELLER)</b>					
Tines	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	56	58	72	58	72
Orbit diameter of tines	597 mm	597 mm	597 mm	597 mm	597 mm
Rotor speed	870 or 650 rpm**	1,000 rpm	1,000 rpm	1,000 rpm	1,000 rpm
Drive	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	20 to 85 mm	20 to 85 mm	20 to 85 mm	20 to 85 mm
<b>CONDITIONER (ROLLS)</b>					
Rolls material – profile	–	Urethane-Chevron			
Rolls Diameter	–	254 mm			
Rolls speed	–	640 rpm	–	–	–
Conditioning rolls pressure	–	Adjustable by crank	–	–	–
Drive	–	3 V powerband belt	–	–	–
<b>WINDROWING</b>					
Windrow width	0.80 to 1.80 m	0.90 to 2.00 m	1.00 to 2.40 m	0.90 to 2.00 m	1.00 to 2.40 m
Belt grouper	Standard	Standard	Long	Standard	Long
<b>WIDE SPREAD</b>					
Availability with	Optional swathboard	Impeller			
<b>SUSPENSION</b>					
Type	Adjustable springs				
<b>DIMENSIONS</b>					
Width (transport)	3.06 m	3.00 m	3.50 m	3.00 m	3.50 m
Weight impeller models	1,930 kg	2,300 kg	2,420 kg	2,560 kg	2,680 kg
Weight rolls models	–	2,380 kg	2,540 kg	2,640 kg	2,760 kg
Length (transport)	5.50 m	7.00 m	7.30 m	7.00 m	7.30 m
<b>TYRES</b>					
Size	10.0/75x15.3-8 PR	11.5/80-15.3-8 PR	11.5/80-15.3-8 PR	11.5/80-15.3-8 PR	11.5/80-15.3-8 PR
	–	13/75-16-10 PR	13/75-16-10 PR	13/75-16-10 PR	13/75-16-10 PR
<b>POWERLINE</b>					
Tractor hook up draft links with hooks cat 3N	■	■	■	■	■
Protection	Slip clutch + free wheel	Slip clutch (540 rpm)	Free wheel	Slip clutch (540 rpm) + free wheel	Free wheel
PTO speed	540 rpm or 1,000 rpm	540 rpm or 1,000 rpm	1,000 rpm	540 rpm or 1,000 rpm	540 rpm or 1,000 rpm
<b>REQUIRED TRACTOR EQUIPMENT</b>					
Hydraulic connections, 1 double + 1 single acting outlet	■	■	■	■	■
Power required with grouper	72 kW (100 hp)	72 kW (100 hp)	86 kW (115 hp)	86 kW (115 hp)	94 kW (126 hp)
Width of double windrow in first cut with standard grouper	–	2.00 m	2.40 m	2.00 m	2.40 m
Width in transport	Within moco width				
Moco length in transport	+ 870 mm	+ 1.00 m	+ 1.00 m	+ 1.00 m	+ 1.00 m

# NOTHING RUNS LIKE A DEERE

Chances are that when you need us, you need us right there and then. For advice, to solve a problem, or for a part. Reach out, we'll be there with technicians who are factory trained, ready to go to work for you, using only genuine John Deere parts and products.



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