

# Mower Conditioners

Front-Mounted and Rear-Mounted



JOHN 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 paddocks.

Our range of 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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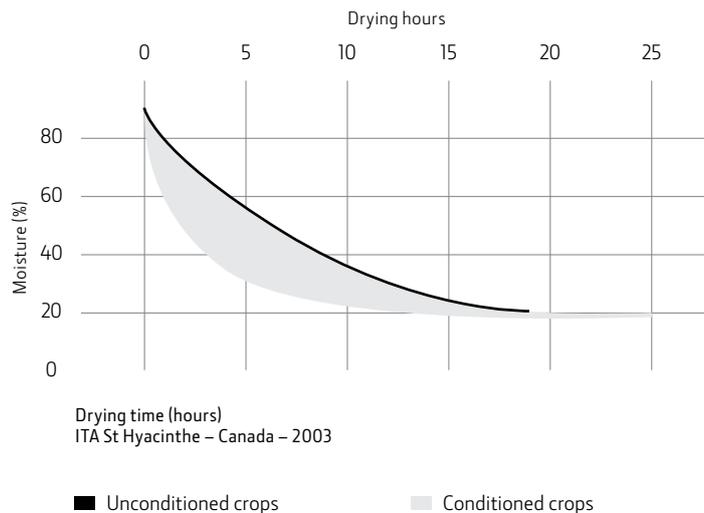
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# More speed, higher quality

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.

Mower conditioners help remove the wax coating on crops to let moisture escape unobstructed. The conditioned hay 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 hay getting rained on, washing out vital nutrients. In the end, you're producing better quality faster.

By combining a Front-Mounted MoCo with a single Rear-Mounted MoCo, you can drastically reduce the number of passes required for even the largest paddocks.



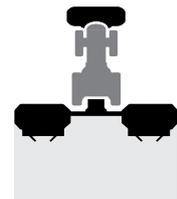
**Front-Mounted**  
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Use in combination with Rear-Mounted MoCo and cut more, even in tight spaces.



**Rear-Mounted, single**  
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Proven, heavy duty MoCo that offers a reliably smooth cut in any field.



**Rear-Mounted, twin**  
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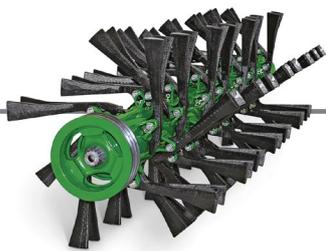
Breakaway system and hydropneumatic suspension – for our closest, smoothest cut.



Front-Mounted		F310R		F350R	
		Combined windrows width, m (ft.)	Combined cutting width, m (ft.)	Combined windrows width, m (ft.)	Combined cutting width, m (ft.)
Rear-Mounted, single	324A	3.90 – 4.65 (12.80 – 15.26)	5.30 (17.39)	–	–
	328A	3.75 – 5.10 (12.30 – 16.73)	5.70 (18.70)	3.95 – 5.35 (12.96 – 17.55)	6.10 (20.01)
	331	4.00 – 5.40 (13.12 – 17.72)	6.00 (19.69)	4.20 – 5.65 (13.78 – 18.54)	6.40 (21.00)
Rear-Mounted, twin	R870R	3.85 – 5.40 (12.63 – 17.72)	8.70 (28.54)	–	–
	R950R	4.10 – 5.70 (13.45 – 18.70)	9.50 (31.17)	–	–
	R990R	–	–	4.30 – 5.95 (14.11 – 19.52)	10.00 (32.81)

# 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

Gently 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, 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.

### 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 your MoCos. 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.



# 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 paddock 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.



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.



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.



# Built to compete

To prevail in an intensely competitive market, you must produce better quality forage faster, at a lower cost. For that, you need the R310R MoCo on your team.

The rear-mounted 3.1 m vertical-fold R310R allows you to mow and condition more hectares at higher speeds and cover long transport distances at speeds of up to 50 km/h\*. Here's a look at the features that make the R310R a top choice today.

## 1 | ADAPTIVE FIT

The adjustable hydraulic suspension adapts to all mowing conditions fast. The resulting low ground pressure protects plant cover, keeps fuel consumption down, reduces wear and keeps impurities out.



## 2 | ALL TERRAIN

An R310R knows no terrain restrictions. Its travel range hugs ground contours with ease even in the most extreme topographies.

## 4 | CONDITIONING CHOICES

Choose the impeller conditioner for speed in high-density crops. Conditioning rolls are for gentler conditioning of tender crops, with easily accessed intensity adjustment.

## 6 | EFFICIENT CUTTERBAR

Benefit from high cutting quality with much reduced and easier maintenance thanks to the quick knives exchange and no need for oil changes.

## 3 | BETTER BALANCE

Oblique folding at 126° and a pivoting point close to the tractor result in better weight balance at the rear of the tractor.

## 5 | DRIVE PROTECTION

Effective overload protection of moving parts on the cutterbar in case of impact with foreign objects.

## 7 | FLEXIBLE PROTECTION

Lower repair cost built-in: A flexible polyethylene side guard bends instead of breaking and snaps back into shape without machine damage when it hits an obstacle.



# Mow big

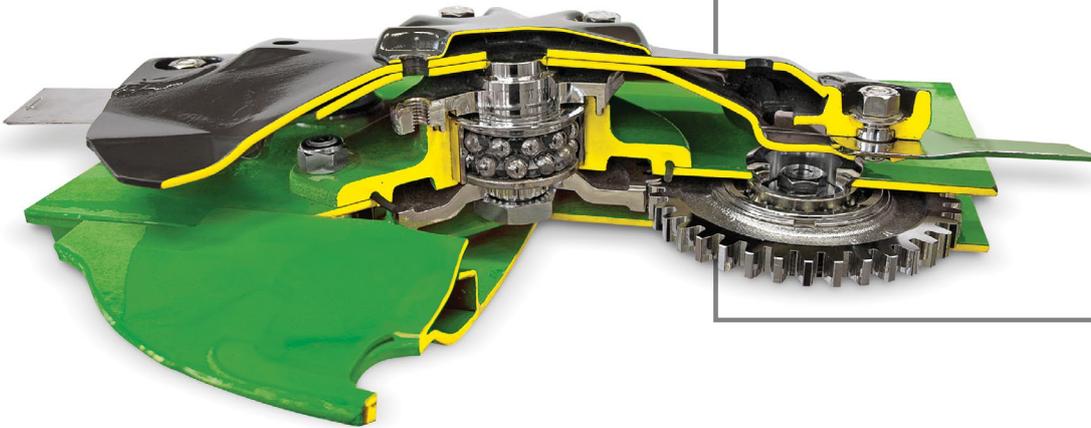
## Rear-Mounted, twin

The twin Rear-Mounted R870R, R950R and R990R triple mower conditioners cut up to 9.90 m when used with a Front-Mounted MoCo. Bring on the big paddocks.

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.

### 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 even features eight of them.



### Stays close, cuts close

Pick up more forage per hectare. 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.

## Specifications

	F310R	F350R	324A	328A	331	R310R	R870R	R950R	R990R
	Front-Mounted		Rear-Mounted						
<b>RECOMMENDED TRACTOR PTO POWER*</b>									
Power	76 kW (100 hp)	91 kW (120 hp)	52 kW (70 hp)	61 kW (82 hp)	76 kW (100 hp)	76 kW (100 hp)	155 kW (210 hp)	170 kW (230 hp)	185 kW (250 hp)
<b>CUTTERBAR</b>									
Number of discs	7	8	6	7	8	7	2 x 7	2 x 8	
Bolted knives reversible and retractable	–	–	■	■	■	–	–	–	–
Quick change knives reversible and retractable	■	■	■	■	■	■	■	■	■
Cutting width, m (ft.)	3.10 (10.17)	3.50 (11.48)	2.40 (7.87)	2.80 (9.19)	3.10 (10.17)	3.10 (10.17)	8.30 – 8.70 (27.23 – 28.54)	9.10 – 9.50 (29.86 – 31.17)	9.50 – 9.90 m
Front/rear cutting overlap, m (in.)	–	–	–	–	–	0.30 (11.75)	0.30 – 0.50 (11.8 – 19.7)		
Cutting height – Classic cutterbar, mm (in.)	–	–	30 – 80 (1.18 – 3.15)			–	–	–	–
Cutting height – Quick Knives Exchange Cutterbar, mm (in.)	35 – 85 (1.38 – 3.35)		34 – 84 (1.34 – 3.31)			35 – 85 (1.38 – 3.35)			
<b>CONDITIONER (IMPELLER)</b>									
Tines	Mobile preloaded I-shape steel		Mobile V-shape steel			Mobile preloaded I-shape steel			
Number of tines	4 in V + 76 straights	4 in V + 100 straights	42	48	54	4 in V + 76 straights	2 x (4 in V + 76 straights)		
Orbit diameter of tines, mm (in.)	540 (21.26)		510 (20.08)			540 (21.26)			
Rotor speed	1,000 or 755 rpm		888 or 615 rpm			1,000 or 755 rpm			
Drive	Gearbox		Belt			Gearbox			
Conditioning hood opening, mm (in.)	10 – 50 (0.39 – 1.97)		10 – 100 (0.39 – 3.94)			10 – 50 (0.39 – 1.97)			
<b>CONDITIONER (ROLLS)</b>									
Rolls profile	Losange	–	Chevron		–	Losange	–	Losange	–
Rolls diameter, mm (in.)	240 (9.45)	–	200 (7.87)		–	240 (9.45)	–	240 (9.45)	–
Rolls speed	1,000 rpm	–	1,000 rpm		–	800 rpm	–	1,000 rpm	–
Conditioning rolls pressure	Adjustable	–	Adjustable		–	Adjustable	–	Adjustable	–
Drive	Drive Line	–	3 Belts		–	Drive Line	–	Drive Line	–
<b>WINDROWING</b>									
Windrow width, m (ft.)	1.20 – 2.40 (3.94 – 7.87)		0.90 – 1.80 (2.95 – 5.91)	1.00 – 2.20 (3.28 – 7.22)	1.20 – 2.50 (3.94 – 8.20)	1.2 – 2.0 (3.94 – 6.56)	1.30 – 3.20 (4.27 – 10.50)		
<b>WIDE SPREAD</b>									
Availability	–	–	■	■	■	■	■	■	■
<b>SUSPENSION</b>									
Type	Adjustable hydro-pneumatic								
<b>DIMENSIONS</b>									
Width (transport), m (ft.)	2.99 (9.81)	3.48 (11.42)	Below 2.50 (8.20)				2.95 (9.68)	3 (9.84)	3.35 (10.99)
Weight impeller models, kg (lb)	1,270 (2,800)	1,350 (2,976)	1,000 (2,205)	1,069 (2,357)	1,145 (2,524)	1,475 (3,262)	3,030 (6,680)	3,211 (7,079)	3,260 (7,187)
Weight rolls models, kg (lb)	–	–	1,050 (2,315)	1,125 (2,480)	–	1,530 (3,373)	–	–	–
<b>POWERLINE</b>									
PTO speed	1,000 rpm		540 rpm	540 or 1,000 rpm	1,000 rpm				
PTO drive	Clockwise and anticlockwise		Clockwise						
Protection	Slip clutch + free wheel								
<b>REQUIRED TRACTOR EQUIPMENT</b>									
Hydraulic and electrical connections	1 single acting (S.A) outlet		1 double acting (D.A) outlet + 1 electrical 7 pin connector			1 D.A outlet + 1 S.A + 1 electrical 7 pin connector	2 D.A outlet + 1 S.A + 1 electrical 7 pin connector		
Tractor hook up	Front hitch, Category 2		Rear 3-point hitch, Category 2			Rear 3-point hitch, Category 3	Category 3 or Category 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-Mounted MoCo.

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

# Efficiency and precision

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.



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