

NEW
DISCBINE® CENTER-PIVOT
DISC MOWER-CONDITIONERS

DISCBINE® 313 | DISCBINE® 316



CLOSER CUTTING, FASTER DRYDOWN, INCREASED DURABILITY

New Holland has taken the Discbine® mower-conditioner to a new level with two new center-pivot models. Combining both speed and performance, the new models enhance the entire Discbine® line with a new 13-foot and 16-foot 3-inch Disc Mower Conditioner. The new Discbine® 313 and Discbine® 316 are designed with increased durability and features that lead to cleaner cutting, more efficient crop flow and smoother, more effective conditioning.



NEW MOWMAX™ II LARGE DISC CUTTERBAR

The rugged MowMax™ II cutterbar features larger discs with larger, heavier gears, bearings and interconnecting shafts for maximum durability. This design has larger gears and one pair of wet splines to provide extra protection where the torque throughput is the greatest. The larger disc diameter also allows you to cut closer with less cutterbar tilt for consistent cutting height without scalloping—from $\frac{3}{4}$ to $2\frac{3}{4}$ inches with standard skid shoes. The increased surface area of the larger discs and the new “tapered skirt” disc profile provide a smoother transition of crop to the conditioner for more uniform conditioning action and reduced power consumption.



SHOCKPRO™ PROTECTION

Unexpected objects/obstructions in hayfields are a fact of life, particularly for custom operators. New Holland-exclusive ShockPRO™ disc drive hubs absorb the impacts caused by hitting those objects before damage to drive components can occur and are quick to replace in the field so you can keep cutting when the weather is right. Heavy, full-coverage, cast rock guards provide additional protection to the MowMax II cutterbar.

YOUR CHOICE OF W I D E CONDITIONING SYSTEMS

NEW WIDEDRY™ CONDITIONING

New Holland's new best-in-class WideDry™ conditioning system features chevron design intermeshing rubber rolls, chevron steel intermeshing rolls or LeaningEdge™ flails that are more than 22% wider than the rolls/flails on previous models. This results in a crop mat that is thinner and flows more smoothly and evenly through the conditioning system for more uniform conditioning and faster drydown. Crop converges more smoothly from the cutterbar to the conditioning system, reducing crop feeding issues, particularly in thick grasses, cane and other high-volume crops.



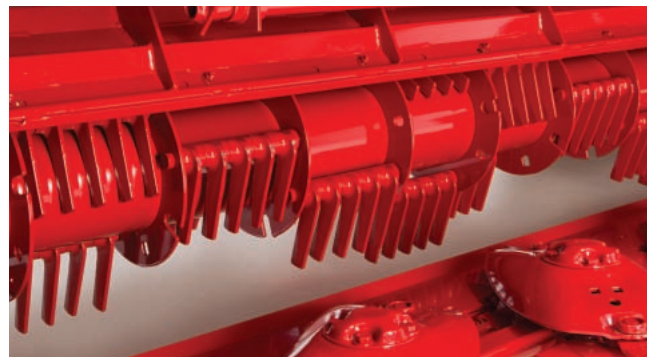
WIDEDRY

NEW TWO-SPEED ROLL CONDITIONING

Roll conditioning systems generate air movement that can blow lighter crop away from the cutterbar and adversely affect cutting quality. For better cut quality, you can switch the sheaves on the roll drive provided with the rubber chevron rolls or steel intermeshing rolls, and slow roll speed from 750 rpm to 640 rpm. This feature allows the roll speed to be decreased to minimize air bursts while maintaining cutterbar speed to provide excellent cut quality in light crop conditions.

LEANINGEDGE™ FLAIL CONDITIONING

For fast drying of grass hay, choose New Holland Holland flail conditioning. The 20-degree tangent of **LeaningEdge™** flails causes more outward pressure, pushing crop against the adjustable hood for more aggressive conditioning, and releasing at the ideal moment to prevent carry-around for uniform, fast-drying swaths or windrows. A slow-speed kit is also available for the LeaningEdge Flail conditioning system.





3-YEAR WARRANTY PROTECTION

You not only get the best disc cutting performance in the industry, you get peace of mind with 36 months of protection coverage. That's two years of additional protection on the MowMax II cutterbar after the base one-year warranty on the full machine. It's a New Holland exclusive.



NEW IMPROVED CROP FLOW

The larger discs and wider conditioning system combine to provide cleaner cutting, better crop flow and more consistent drying. You can lay down a wide swath for more sun exposure and better natural drying. Co-rotating disc modules have been eliminated on the Discbine 313 and reduced to one pair on each end of the Discbine 316. This greatly reduces the crop convergence between the cutterbar and the conditioner. Adjustable windrow shields and a new spring-assist swath-gate adjustment lever make it easy to customize windrow and swath formation.

NEW SIMPLIFIED DURABLE DRIVELINES

Choose either the drawbar swivel hitch or 2-point swivel hitch and get maximum turning performance with zero driveline wrap-up. PTO power is transferred from the front swivel gearbox to a second swivel gearbox at the rear of the tongue that maintains perfect alignment of the output driveshaft to the cutterbar- and conditioner-drive gearbox on the left side of the unit. The new MowMax II cutterbar's smart design allows driving the cutterbar from only one end, which simplifies maintenance and leaves the top of the header uncluttered. While all u-joints are easily accessible for easy servicing, lube interval has been extended to 50 hours so you spend less time on daily maintenance.

NEW IMPROVED FLOTATION

Improved header attaching link geometry contributes to more responsive flotation. The rear pivot points of the links that attach the header to the trail frame are lower than the front pivot points, ensuring the header moves up and rearward should you encounter an obstacle. In addition, the upper end of the flotation springs are anchored with a ball-and-socket arrangement that eliminates any binding as the header moves through its flotation range.

NEW EASIER ACCESS

Lightweight poly bifold shields provide easy access to the cutterbar and resist denting. Material overlap keeps curtains in place without the need for clips or magnets. The driven end access steel door is double layered to resist denting in that area too.



NEW BIOMASS KIT

For working in energy crops like cane, switchgrass or corn stover, order the biomass kit. It includes extra-high skid shoes for the increased cut height and longer stubble desired in these crops. Lift lock out channels stop the cylinders mid-stroke to maintain good flotation, even when cutting well off of the ground. A separate pushbar kit is available to push tall crops forward and maintain cut quality.

A WIDE SELECTION OF SKID SHOES

New Holland provides you with a choice of skid shoes to match your cutting needs.

Skid Shoe Types	Cutting Height, inches
Fixed Height (standard)	$\frac{3}{4}$ - $2 \frac{3}{4}$ inches
Adjustable option	$\frac{3}{4}$ - $5 \frac{3}{4}$ inches
High-Stubble option	3 - $5 \frac{1}{2}$ inches
BioMass option (extra-high)	5 - $7 \frac{3}{4}$ inches

REPLACEMENT KNIVES TO MATCH FIELD CONDITIONS

The Discbine 313/316 can be equipped with a choice of six different cutterbar knives, depending on crop conditions and soil types. All knives feature two cutting edges, are available from the parts department, and can be flipped for double the cutting life.

- 14-degree smooth knives are standard on the Discbine® MowMax™ II cutterbar and provide the best choice and value for most conditions.
- 14-degree serrated knives offer the same advantages as 14-degree smooth knives, with extended wear in abrasive conditions.
- 18-degree smooth knives are more effective in down crop conditions by providing more crop lift.
- 18-degree serrated knives offer the same advantages in down crops as the 18-degree smooth knives, with extended wear in abrasive conditions.
- 7-degree smooth knives offer clean cutting with less ash content, and will reduce crop blow down in light or short crops.
- Rock knives are designed for durability in rocky/stony conditions.

CENTER-PULL DISC MOWER CONDITIONER SPECIFICATIONS

MODELS

DISCBINE 313 (roll)

DISCBINE 313 (flail)

DISCBINE 316 (roll)

DISCBINE 316 (flail)

MowMax II Cutterbar with ShockPRO hubs					
Cutting width	ft. in. (m)	13' 0" (4.0)	13' 0" (4.0)	16' 3" (4.95)	16' 3" (4.95)
Cutting height	in. (mm)	0.79 - 2.7 (20 - 69)	0.79 - 2.7 (20 - 69)	0.79 - 2.7 (20 - 69)	0.79 - 2.7 (20 - 69)
Cutting height w/opt. high-stubble shoes	in. (mm)	3.1-5.5 (79-140)	3.1-5.5 (79-140)	3.1-5.5 (79-140)	3.1-5.5 (79-140)
Cutting height w/opt. Biomass shoes	in. (mm)	4.9-7.8 (124-198)	4.9-7.8 (124-198)	4.9-7.8 (124-198)	4.9-7.8 (124-198)
Cutting height w/opt. adjustable shoes	in. (mm)	0.79-5.8 (20-147)	0.79-5.8 (20-147)	0.79-5.8 (20-147)	0.79-5.8 (20-147)
Cutterbar tilt angle	degrees	2 - 10	2 - 10	2 - 10	2 - 10
Type cutterbar		Modular	Modular	Modular	Modular
Number of discs/knives per disc		8/2	8/2	10/2	10/2
Disc speed @ 1000 rpm PTO speed	rpm	2250	2250	2250	2250
Knife tip speed @ 1000 rpm PTO speed	mph (k/h)	162 (261)	162 (261)	162 (261)	162 (261)
Cutterbar flotation		Vertical and lateral, adjustable springs			
Cutterbar drive method		PTO drive w/slip clutch to bevel gearbox at LH end of header, vertical PTO shaft to cutterbar, replaceable ShockPRO disc drive hubs			
Conditioner					
Type		Chevron intermeshing molded rubber, or chevron intermeshing steel rolls	Flail Rotor w/120 tapered flails	Chevron intermeshing molded rubber, or chevron intermeshing steel rolls	Flail Rotor w/120 tapered flails
Length	in. (mm)	125 (3175)	125 (3175)	125 (3175)	125 (3175)
Diameter	in. (mm)	2 x 10.4 (264) rolls	1 x 22 (560) flail rotor	2 x 10.4 (264) rolls	1 x 22 (560) flail rotor
Conditioner drive method		4 HB v-belt & enclosed gears	4 HB v-belt	4 HB v-belt & enclosed gears	4 HB v-belt
Speed	rpm	750 or 640	1042 std. 752 opt.	750 or 640	1042 std. 752 opt.
Conditioning roll tension adjustment		Single crank	NA	Single crank	NA
Conditioner gap adjustment		Drawbolt stop, each end	Single crank adjustment of rotor hood	Drawbolt stop, each end	Single crank adjustment of rotor hood
Swath width	ft. (m)	10 (3.0)	10 (3.0)	10 (3.0)	10 (3.0)
Windrow width	ft. (m)	3 - 8 (.9 - 2.4)	3 - 8 (.9 - 2.4)	3 - 8 (.9 - 2.4)	3 - 8 (.9 - 2.4)
Driveline					
Input speed	rpm	1000	1000	1000	1000
Driveline protection		Slip clutch and overrunning clutch assembly @ rear of PTO shaft			
Tractor Requirements					
Minimum PTO power required	hp (kW)	90 (67)	90 (67)	100 (75)	100 (75)
PTO shaft spline/size requirements		21-spline/1 3/8"	21-spline/1 3/8"	21-spline/1 3/8"	21-spline/1 3/8"
Hydraulic circuits required		2	2	2	2
Minimum relief pressure required, psi (bar)		1500 (103)	1500 (103)	1500 (103)	1500 (103)
Electrical		7-pin electrical connector for transport lights			
Drawbar/3-pt Hitch		ASAE Cat. II or III drawbar or Cat. III 3-pt hitch		ASAE Cat. III drawbar or Cat. III 3-pt hitch	
Tires					
Tubless Ag rib implement tires		12.5L x 15 8PR	12.5L x 15 8PR	12.5L x 15 8PR	12.5L x 15 8PR
Transport Speed, Maximum	mph	20 (32)	20 (32)	20 (32)	20 (32)
Dimensions 1 and Weight 2					
Width, transport	ft. in. (m)	13' 4" (4.04)	13' 4" (4.04)	16' 7" (5.05)	16' 7" (5.05)
Width, operating	ft. in. (m)	21' 3" (6.5) w/2-pt swivel hitch; 19' 7" (6.0) w/drawbar swivel hitch	21' 3" (6.5) w/2-pt swivel hitch; 19' 7" (6.0) w/drawbar swivel hitch	25' 7" (7.8) w/2-pt swivel hitch; 23' 11" (7.3) w/drawbar swivel hitch	25' 7" (7.8) w/2-pt swivel hitch; 23' 11" (7.3) w/drawbar swivel hitch
Length, transport	ft. in. (m)	27' 5" (8.4) w/2-pt swivel hitch; 26' 5" (8.1) w/drawbar swivel hitch	27' 5" (8.4) w/2-pt swivel hitch; 26' 5" (8.1) w/drawbar swivel hitch	32' 0" (9.7) w/2-pt swivel hitch; 31' 0" (9.4) w/drawbar swivel hitch	32' 0" (9.7) w/2-pt swivel hitch; 31' 0" (9.4) w/drawbar swivel hitch
Length, operating	ft. in. (m)	23' 0" (7.0) w/2-pt swivel hitch; 22' 0" (6.7) w/drawbar swivel hitch	23' 0" (7.0) w/2-pt swivel hitch; 22' 0" (6.7) w/drawbar swivel hitch	26' 7" (8.1) w/2-pt swivel hitch; 25' 7" (7.8) w/drawbar swivel hitch	26' 7" (8.1) w/2-pt swivel hitch; 25' 7" (7.8) w/drawbar swivel hitch
Height, transport	ft. in. (m)	7' 5" (2.26)	7' 5" (2.26)	7' 5" (2.26)	7' 5" (2.26)
Height, operating	ft. in. (m)	6' 7" (2.01)	6' 7" (2.01)	6' 7" (2.01)	6' 7" (2.01)
Ground clearance w/header fully raised	in. (mm)	16.2 (411)	16.2 (411)	16.2 (411)	16.2 (411)
Weight, Shipping	lb. (kg)	Less Hitch 6420 (2912); w/2pt or dbr 6595 (2991)	Less Hitch 6420 (2912); w/2pt or dbr 6595 (2991)	Less Hitch 6845 (3104); w/2pt or dbr 7020 (3184)	Less Hitch 6845 (3104); w/2pt or dbr 7020 (3184)
Weight, Operating	lb. (kg)	w/2pt or dbr 6275 (2846)	w/2pt or dbr 6275 (2846)	w/2pt or dbr 6700 (3039)	w/2pt or dbr 6700 (3039)

1 Length and Height- Flail curtain is down for all height and length measurements.
1 Length with flail curtain up should be reduced by 2" (50.8mm).

1 Length- windrow shields fully open for length in both transport and operating positions.
2 Weights shown with rubber conditioning rolls. For weight w/steel conditioning rolls add 100 (45).



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