

New Holland Discbine® Disc Mower-Conditioners

1409 1410 1411 1412 1431 1432 1441 1442



NEW HOLLAND



Fast field speeds in tough conditions

Make your choice of rubber-roll or flail conditioning for fast drydown and earlier baling.

New Holland's extensive line of Discbine® disc mower-conditioners gives you all the choices you need. From seven-disc models that make a narrow, nine-foot cut up to the 12-disc models that sweep through 15' 7" at a time, there's sure to be a model that matches your capacity needs. And, no matter what cutting width you choose, you get your choice of conditioning—chevron-

design rubber-roll or flail. Either way, you get the proven performance and reliability of the New Holland Discbine® independent modular disc cutterbar.

Discbine disc mower-conditioners slice through thick, tangled, even wet crops and mow through fire ant hills and gopher mounds — without missing a beat. They'll turn standing crop into fast-drying windrows or swaths in no time flat.

Modular advantage

New Holland's modular cutterbar offers a clear-cut advantage. It features seven, eight, ten or twelve individual disc modules (depending on model) with sealed gear cases and independent alloy drive shafts. So when cutting on slopes, gears stay fully lubricated and working reliably. When service is required, it's a fast and inexpensive



proposition. And when performance is measured, there's no better way to cut hay and grass.

Better hay conditioning

Discbine Models 1409, 1411, 1431 and 1441 feature New Holland's proven chevron-design, rubber-roll conditioning system for excellent crop conditioning and fast drydown. On Models 1410, 1412, 1432 and 1442, a flail conditioning system delivers even faster drydown, allowing earlier baling. Unique tapered flails release crop more easily than competitive systems, producing a thinner, more uniform mat for better air circulation and more thorough drying.

Your choice of tongue designs

Bent tongue, center-pivot with standard drawbar or center-pivot with two-point or drawbar swivel hitch. The choice is yours, depending on the Discbine model. All three center-pivot Discbine tongue designs let you cut at any angle — side offset or behind the tractor — and each offers outstanding maneuverability while cutting or in transport. In fact, even the bent-tongue design can be hydraulically swung on-the-go for exceptional maneuverability around obstacles.

Model	No. of discs	Cutting width	Conditioning system
1409	7	9'2"	Rubber rolls
1410	7	9'2"	Flails
1411	8	10'4"	Rubber rolls
1412	8	10'4"	Flails
1431	10	13'	Rubber rolls
1432	10	13'	Flails
1441	12	15'7"	Rubber rolls
1442	12	15'7"	Flails



It's the most advanced modular cutterbar available

Individually sealed gear cases, independent drive shafts, peace-of-mind reliability

The New Holland modular Discbine® cutterbar sets the standard for the industry. It's the secret to smooth, quiet, trouble-free mowing — and fast, inexpensive cutterbar servicing.

Because each disc module is an individually sealed gear case, and because



Two heavy-duty knives on each disc spin at 3,000 rpm for fast cutting without plugging.

each gear case is connected by independent, hardened alloy drive shafts, you'll never worry about major cutterbar damage or costly repairs. With a New Holland Discbine, there's no full-width drive shaft that can twist or shear and no chance that a broken gear tooth can circulate in the oil bath and cause more damage down the line. New Holland's

modular engineering reduces repair time and cost by ensuring that any damage to one module doesn't affect another. Call it peace-of-mind reliability.

Easy service and maintenance

Since bearings, gears and lubricant are sealed in each module, the bearings are maintenance-free. You can also run for 200 hours before changing the disc gearbox oil.

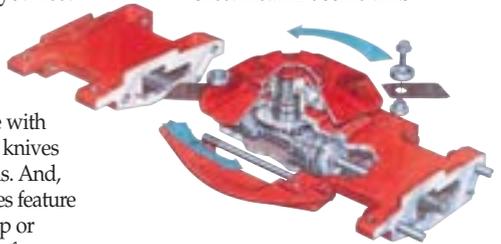
In addition, individual disc modules can be easily repaired. And if you need to replace a module, you can simply remove four bolts to drop the bar and four more to split it.

All Discbines are available with your choice of three different knives to match your field conditions. And, for twice the cutting life, knives feature two cutting edges. You can flip or replace knives easily from the front of the cutterbar using only one bolt per knife. No need to raise the header or reach from the back of the cutterbar.

The New Holland Discbine design

ensures long life and maximum capacity, even in the toughest conditions:

- To withstand punishing conditions, austempered discs result in extra hardness, toughness and durability.
- To avoid disc and knife damage in rocky fields, simply adjust the cutting angle hydraulically from the tractor cab.
- Cutterbar module gears are precision-forged for added strength.
- For maximum durability, rock guards are made of ductile iron, not stamped sheet metal like some units.



- For optimum flotation and protection, skid shoes are 8-inches wide and extend behind the module a full two inches.



Adjustable header flotation springs and on-the-go cutting angle adjustment allow you to get all the crop without scalping or knife damage.



The Discbine header is suspended independently of the trail frame, allowing it to react both vertically and laterally to changing ground contours.

Your choice of conditioning

Produce quality hay with gentle handling and fast drydown

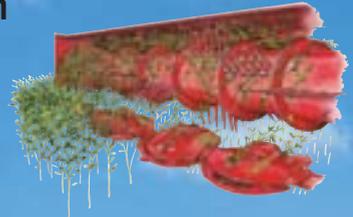
Gentle, but thorough conditioning from Models 1409, 1411, 1431 and 1441 starts with New Holland's 102-inch (90-inch on the 1409) chevron-design, inter-meshing rubber rolls. Their unique spiral design grips the crop and keeps it moving without wrapping. The rolls



crimp and crack stems evenly along the entire length of the plant, so you get fast drydown yet retain protein-rich leaves. Adjusting roll pressure is easy. No tools are required. Critical roll gap adjustment is made with one adjusting bolt per side, no removing or adding shims.

Tapered flails provide exceptional conditioning and faster drydown

Model 1410, 1412, 1432 and 1442 Discbine® disc mower-conditioners provide fast-drying, time-saving flail conditioning. Some customers report the New Holland flail conditioning



system lets you bale grass crops up to a day earlier.

As cut crop leaves the cutterbar, up to 120 tapered flails pick up the crop and rub it together and against the conditioning hood. This action removes the waxy layer on the stems, which releases moisture quickly. The tapered flails release crop more easily than competi-



tive flails — allowing the cut crop to lay on top of the stubble for better air circulation and more thorough drying.

The 102-inch (90-inch on the 1410) flail rotor thoroughly conditions a variety of crops. The low-speed rotor (standard on the Models 1410 and 1412; optional on Models 1432 and 1442) is ideal for working in alfalfa and legumes. The high-speed rotor (standard on Models 1432 and 1442; optional on the Models 1410 and 1412) aggressively conditions grass crops. When working with the high-speed rotor in alfalfa and legumes, over-conditioning can be

avoided by simply reducing the tractor PTO speed. Choose the optional textured hood liner for even more aggressive grass conditioning.

From swath to windrow, adjustment is fast and easy

All Discbine® models feature fast and easy windrow shield adjustment, all without tools. Depending on crop and moisture conditions and your method of final harvesting, you can spread the cut crop in a fast-drying swath as wide as eight feet (depending on model) to a tight, three-foot windrow that's ready to bale or chop.



A simple turn of a hand crank lets you raise the conditioning hood away from the flails for lighter conditioning. Lower the hood for more aggressive action in grass. (Model 1412 shown)



In tight corners, these mower-conditioners maneuver with ease

Turn, pivot and go with any of three tongue designs

Maneuverability is a given with Discbine® mower-conditioners. The narrow width of the Models 1409 and 1410 provides outstanding maneuverability in small fields, while the tongue designs of the wider models gives you the maneuverability of self-propelled machines.

The center-pivot tongue design (on Models 1431, 1432, 1441 and 1442) swings 38.5 degrees to the right or left to provide

outstanding turn-and-go maneuverability. You can cut on either side or directly behind the tractor — even on slopes and angles — and get all the crop.

A center-pivot, swivel-hitch tongue (standard on Models 1441 and 1442; optional on Models 1431 and 1432) provides the ideal combination of cutting options and exceptional maneuverability. For making over-square corners, tight

headland turns, or cutting around field obstacles, this is the tongue design you need. And you can still cut side offset or behind the tractor — whatever field conditions and cutting patterns demand.

A unique bent-tongue design on Models 1411 and 1412 features a constant-velocity joint driveline and on-the-go hydraulic swing for incredible maneuverability. In fact, with the bent



tongue design you can enjoy swivel hitch-like convenience and performance without the need for a three-point hitch or drawbar extension. You can mow at most any angle and make square and over-square corners without vibration or noise.



A center-pivot, swivel-hitch tongue provides even better maneuverability and tight corner cutting than a standard drawbar center-pivot.



Specifications

Model	1409	1410	1411	1412
Cutterbar				
Number of discs	7	7	8	8
Number of knives	14 (2 per disc)	14 (2 per disc)	16 (2 per disc)	16 (2 per disc)
Speed, rpm 3000	3000	3000	3000	Speed, rpm
Cutting width, ft. in. (mm)	9' 2" (2800)	9' 2" (2800)	10' 4" (3160)	10' 4" (3160)
Cutting angle	.....2 to 10 degrees, mechanical or hydraulic control .....		.....2 to 10 degrees, hydraulic control	
Cutting height, in. (mm)	.....0.95 to 3.2 (24 to 81) with standard skid shoes			
Ground clearance with header fully raised, in. (mm)	17 (432)	17 (432)	18 (457)	17 (432)
Flotation	.....Vertical and lateral, adjustable springs			
Material Discharge				
Swath, ft. (mm)	6 (1829)	6 (1829)	7 (2134)	7 (2134)
Windrow, ft. (mm)	.....Adjustable from 3 to 6 (914 to 1829) .....		.....Adjustable from 3 to 7 (914 to 2134)	
Hydraulics				
Hydraulic swing	.....Standard (double-acting cylinder)			
Hydraulic lift	.....Standard (operated by two single-acting cylinders; master/slave)			
Hydraulic tilt	.....Optional (operated by single-acting cylinder and .....		.....Standard (operated by single-acting cylinder and	
	.....incorporated into the lift system) .....		.....incorporated into the lift system)	
Conditioner				
Type	Chevron-design intermeshing molded rubber rolls	Flail rotor with 90 tapered flails and optional textured hood liner	Chevron-design intermeshing molded rubber rolls	Flail system with 120 tapered flails and optional textured hood liner
Length, in. (mm)	90 (2286)	90 (2286)	102 (2591)	102 (2591)
Diameter, in. (mm)	10.4 (264)	22 (560)	10.4 (264)	22 (560)
Drive	4 HB V-belt and enclosed gears	4 HB V-belt	4 HB V-belt and enclosed gears	4 HB V-belt
Speed, rpm	647	730 std. or optional 1016	635	718 std. or optional 1000
Conditioner Adjustment	Single crank adjustable roll pressure	Adjustable rotor hood with replaceable smooth liner	Single crank adjustable roll pressure	Adjustable rotor hood with replaceable smooth liner
Speeds				
Operating, mph (kph)	0 to 9 (0 to 14.5)	0 to 9 (0 to 14.5)	0 to 9 (0 to 14.5)	0 to 9 (0 to 14.5)
Transport, mph (kph)	20 (32)	20 (32)	20 (32)	20 (32)
Tubeless Ag Rib Implement Tires				
Size	9.5L x 14 6PR	9.5L x 14 6PR	11L x 15 6PR	9.5L x 14 6PR
Dimensions				
Height, Transport, ft. in. (m)	5' 8" (1.7)	5' 8" (1.7)	5' 8" (1.7)	7' 7" (2.3)
Height, Operating, ft. in. (m)	4' 5" (1.3)	4' 5" (1.3)	4' 5" (1.3)	4' 5" (1.3)
Width, Transport, ft. in. (m)	.....9' 11" (3.0) with standard drawbar hitch .....		.....11' 3" (3.4) with standard drawbar hitch	
Width, Operating, ft. in. (m)	.....14' 10" (4.52) with standard drawbar hitch .....		.....16' 0" (4.6) with standard drawbar hitch	
Length, Transport, ft. in. (m)	.....17' 7" (5.3) with standard drawbar hitch .....		.....17' 7" (5.3) with standard drawbar hitch	
Length, Operating, ft. in. (m)	17' 2" (5.2) with standard drawbar hitch	17' 2" (5.2) with standard drawbar hitch	17' 2" (5.2) with standard drawbar hitch	17' 8" (5.4) with standard drawbar hitch
Weight, lbs. (kg)	3,690 (1674)	3,740 (1696)	4,100 (1864)	4,011 (1824)
NOTE: Rear curtain up for transport position on flail units. Windrow shields out for field and transport positions on flail and roll units.				
Drive				
	.....540 rpm PTO, enclosed gears and a belt .....		.....540 or 1000 rpm PTO, enclosed gears and a belt	
Drive Protection				
	.....Slip clutch and over-running clutch			
Tractor Requirement				
	65 PTO hp (48 kW) or greater with standard ASAE hitch.		80 PTO hp (60 kW) or greater with standard ASAE hitch.	
	.....All models require two remote hydraulic systems capable of 1500 psi (10343 kPa), 7-pin SAE J560 connector for transport lights.			

Model	1431	1432	1441	1442
Cutterbar				
Number of discs	10	10	12	12
Number of knives	20 (2 per disc)	20 (2 per disc)	24 (2 per disc)	24 (2 per disc)
3000 rpm	3000 rpm	3000 rpm	3000 rpm	
Cutting width, ft. in. (mm)	13 (3960)	13 (3960)	15' 7" (4795)	15' 7" (4795)
Cutting angle	.....2 to 10 degrees, hydraulic control			
Cutting height, in. (mm)	.....0.95 to 3.2 (24 to 81) with standard skid shoes			
Ground clearance with header	18 (457)	18 (457)	18 (457)	18 (457)
Flotation	.....Vertical and lateral, adjustable springs			
Material Discharge				
Swath, ft. (mm)	8 (2438)	8 (2438)	8 (2438)	8 (2438)
Windrow, ft. (mm)	.....Adjustable from 3 to 8 (914 to 2438)			
Hydraulics				
Hydraulic swing	.....Standard (double-acting cylinder)			
Hydraulic lift	.....Standard (operated by two single-acting cylinders; master/slave)			
Hydraulic tilt	.....Standard (operated by single-acting cylinder and incorporated into the lift system)			
Conditioner				
Type	Chevron-design intermeshing molded rubber rolls hood liner	Flail system with 120 tapered flails and optional textured	Chevron-design intermeshing molded rubber rolls	Flail system with 120 tapered flails and optional textured hood liner
Length, in. (mm)	102 (2591)	102 (2591)	102 (2591)	102 (2591)
Diameter, in. (mm)	10.4 (264)	22 (560)	10.4 (264)	22 (560)
Diameter, in. (mm)	4 HB V-belt and enclosed gears	4 HB V-belt	4 HB V-belt and enclosed gears	4 HB V-belt
Speed, rpm	640	1011std or optional 726	640	1000 std or optional 726
Conditioner Adjustment	Single crank adjustable roll pressure	Adjustable rotor hood with replaceable smooth liner	Single crank adjustable roll pressure	Adjustable rotor hood with replaceable smooth liner
Speeds				
Operating, mph (kph)	0 to 9 (0 to 14.5)	0 to 9 (0 to 14.5)	0 to 9 (0 to 14.5)	0 to 9 (0 to 14.5)
Transport, mph (kph)	20 (32)	20 (32)	20 (32)	20 (32)
Tubeless Ag Rib Implement Tires				
Size	31 x 13.5-15	31 x 13.5-15	31 x 13.5-15	31 x 13.5-15
Dimensions				
Height, Transport, ft. in. (m)	6' 8" (2.0)	8' 7" (2.6)	6' 8" (2.0)	8' 7" (2.6)
Height, Operating, ft. in. (m)	5' 8" (1.7)	5' 8" (1.7)	5' 8" (1.7)	5' 8" (1.7)
Width, Transport, ft. in. (m)	.....13' 2" (4.0) with standard drawbar hitch, 2-pt swivel hitch... .....or drawbar swivel hitch .....		.....15' 9" (4.8) with 2-pt swivel hitch or drawbar swivel hitch....	
Width, Operating, ft. in. (m)	.....19' 5" (5.9) with standard drawbar hitch .....		.....24' 11" (7.6) with 2-pt swivel hitch	
	.....21' 3" (6.5) with 2-pt swivel hitch .....		.....23' 3" (7.1) with drawbar swivel hitch	
	.....19' 7" (5.9) with drawbar swivel hitch			
Length, Transport, ft. in. (m)	.....24' 7" (7.2) with standard drawbar hitch .....		.....30' 5" (9.3) with 2-pt swivel hitch	
	.....26' 5" (8.1) with 2-pt swivel hitch .....		.....29' 5 in. (8.7) with drawbar swivel hitch	
	.....25' 5" (7.4) with drawbar swivel hitch			
Length, Operating, ft. in. (m)	20' 2" (5.8) w/std drawbar hitch	20' 8" (6.3) w/std drawbar hitch	.....26' 7" (8.1) with 2-pt swivel hitch	
	22' 1" (6.7) w/2-pt swivel hitch	22' 7" (6.9) w/2-pt swivel hitch	.....25' 7" (7.8) with drawbar swivel hitch	
	21' 1" (6.1) w/drawbar swivel hitch	21' 7" (6.6) w/drawbar swivel hitch		
Weight, lbs. (kg)	5,500 (2500)	5,600 (2557)	6,550 (2971)	6,650 (3016)
Drive				
	.....1000 rpm PTO, enclosed gears and three HB banded V belts			
Drive Protection				
	.....Slip clutch and over-running clutch			
Tractor Requirement				
	.....90 PTO hp (67 kW) or greater with standard Category II,....		.....100 PTO hp (74.5 kW) or greater with Category III	
	.....or Category III drawbar or Category III 3-point hitch. ....		.....drawbar or Category III 3-point hitch.	
All models require two remote hydraulic systems capable of 1500 psi (10343 kPa), 7-pin SAE J560 connector for transport lights.			

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Safety begins with a thorough understanding of the equipment. Always make sure you and your operators read the Operator's Manual before using the equipment. Pay close attention to all safety and operating decals and never operate machinery without all shields, protective devices and structures in place.



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