

New Holland Haybine® Mower-Conditioners



472 488 499 H7150



The original is still the best



Introduced in 1964, the 460 Haybine® mower-conditioner was the first invention to combine cutting and conditioning into one machine.

Haybine® mower-conditioners are still rated number one in smooth cutting and plug-free conditioning.

When it's time to buy a mower-conditioner, go with the one that started it all—the genuine New Holland Haybine® mower-conditioner. Haybine mower-conditioners deliver just what you need during the time-crunch of haymaking. They cut smoothly through heavy crops and condition them thoroughly for fast drying.

Genuine Haybine® features make the difference

So, what *IS* it that makes a mower-conditioner a genuine “Haybine?”

Every Haybine model has the same core features—and it is these features that lead to top-of-the-line field performance and hay quality:

- **Genuine New Holland cutting parts** – twice-hardened guards and efficient, over-serrated knives slice easily and reliably through tough and tangled crops.
- **Full, lateral and radial header flotation** assures you of a close, even cut even when the field is anything but even.
- **New Holland chevron-design rubber rolls** crimp stems for fast

drydown without over-conditioning delicate leaves.

- **The plug-free New Holland torsion-bar roll-pressure system** delivers near-constant pressure whether the crop is thick or thin for consistent conditioning, yet releases roll pressure completely if needed to allow slugs to pass.

- **No tools needed to change from swath to windrow** so you can easily adjust the machine to match conditions.



A wide selection of cutting widths

New Holland offers pull-type Haybine models with cutting widths from seven to eighteen feet, so there's a model that's perfect for your needs, whether you operate a small dairy farm, a large cattle ranch or a custom-cutting operation.

An exclusive push-pull combination

A New Holland Bidirectional™ tractor allows you to power an HS Series windrower header on the front (see photo at right) and pull an H7150 Haybine mower-conditioner behind at the same time, allowing you to push and pull headers up to 18 feet wide to get a combined 35-foot cut! You won't find this opportunity with any other brand.

Haybine® Model	Cutting Width	Conditioning Roll Length (Crushing Area)
472 side pull	7 ft. 3 in.	85 in.
488 side pull	9 ft. 3 in.	102 in.
499 pivot-tongue	12 ft. 3 in.	110 in.
H7150 pivot-tongue	14 ft. 3 in.	102 in.
	16 ft. 3 in.	102 in.
	18 ft. 3 in.	102 in.



The heart of every Haybine® model

Exclusive New Holland chevron rolls and a unique pressure system provide thorough, consistent conditioning.

The heart of a Haybine® mower-conditioner is the New Holland conditioning system. This system is expressly designed to help you bale or chop sooner, while delivering optimum hay quality.

Chevron-design rolls

New Holland chevron-design intermeshing rubber rolls are known for their

gentle, but thorough conditioning. Their unique spiraled design helps grip the crop and keep it moving. The lugs crack the stem every three or four inches to release moisture for fast drydown. But the rolls are only part of the Haybine conditioning system.

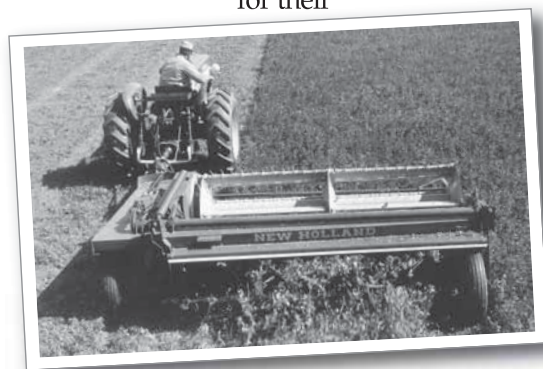
Unique roll pressure system

For the most consistent conditioning you'll find anywhere, the New Holland torsion-bar roll-pressure system applies near-constant pressure to your crop, even as the crop mat thickness changes. But, when the rolls reach their maximum opening, the pressure decreases automatically to permit slugs to

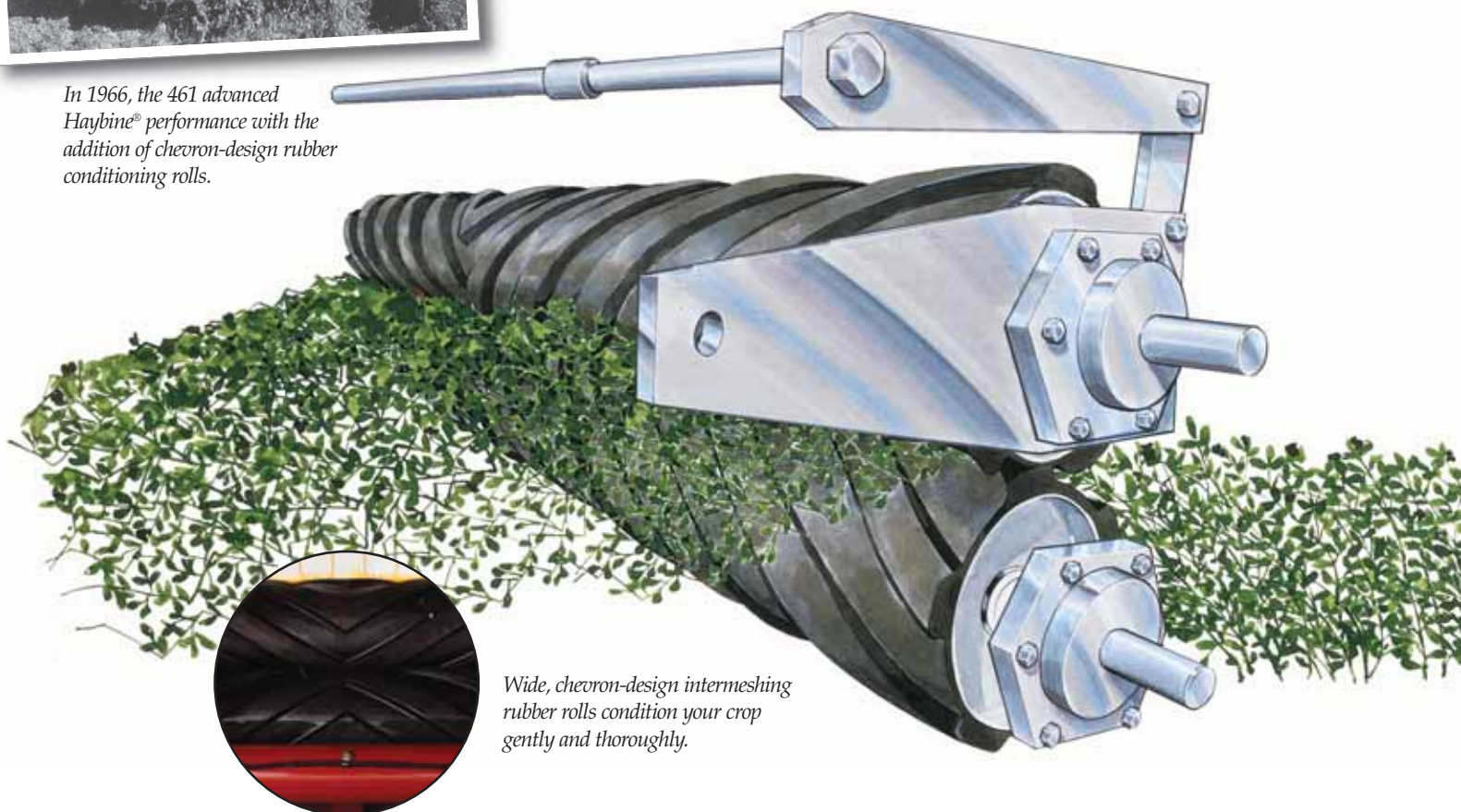
pass through without plugging, and without stopping! There's no need to stop and raise the header to "power out" the plug like ordinary mower-conditioners. That's a real time-saver.

Infinite, no-tools pressure adjustment

A turn of a crank is all it takes to change conditioning pressure to match field conditions. No tools are required to get the exact amount of conditioning needed for your crops. Also important for optimal conditioning is the proper roll gap setting, which controls conditioning intensity and the resulting drydown performance. For most legume crops, the roll gap (the space between the upper



In 1966, the 461 advanced Haybine® performance with the addition of chevron-design rubber conditioning rolls.



Wide, chevron-design intermeshing rubber rolls condition your crop gently and thoroughly.



Roll pressure is adjusted quickly and easily with the turn of a crank. No tools needed! Adjustment is infinite so you can choose the exact degree of conditioning you need.

and lower conditioner rolls) should be maintained between 1/64" - 1/16" for optimum dry down.

Additional H7150 options

Two other conditioning systems are available for more specialized applications:

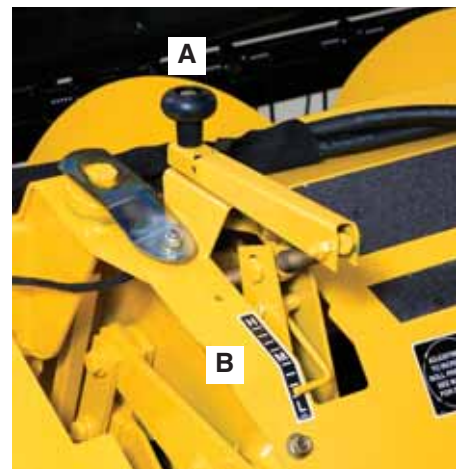
- Factory-or dealer-installed, high-contact, urethane chevron rolls

provide intensive conditioning/ crushing for fast drydown that is best suited for alfalfa harvest in low humidity conditions.

- Dealer-installed slatted steel rolls are best suited for abrasive conditions especially in cane-type crops.



A dependable gearbox drives the 499 and H7150 conditioning rolls. No chains to adjust!



Use this handy crank (A) to adjust roll pressure—no tools needed. A roll pressure indicator (B) is also provided.

Smooth, reliable cutting



High-efficiency features assure you of consistent Haybine® cutting performance.

Haybine® mower-conditioners are rated number one in cutting through heavy, down and tangled crops. Smooth, reliable cutting starts with the over-serrated, bolt-on knife sections, adjustable sickle hold-down clips, and square back-bar guards. Haybine headers float laterally and radially, so you're sure to get all the crop when mowing on uneven terrain. And, Haybine sickle drive systems are designed to provide clean cutting with less wear and vibration, and minimum maintenance.

Dual, counter-stroking sickles

The 499 and H7150 use dual, counter-stroking sickles for smooth,

clean cutting performance. They're driven from both sides, operate with less vibration and are easy to service. A heavy-duty, timed wobble drive system on the H7150 provides reliable trouble-free operation. An 1810-spm sickle speed on the H7150 (1700-rpm on the 499) plus a full three-inch stroke combine to provide fast, high-capacity cutting.

Adjustable cutting angle

You can easily adjust knife and guard angle on the 499 and H7150 to suit crop and field conditions. Hydraulic cutting angle adjustment is standard on the H7150 and optional on the 499, allowing you to make

changes on the go right from your tractor seat — an ideal option when working in rocky fields.



Bolt-on, over-serrated, back-hardened knife sections with adjustable hold-downs are standard equipment.



The 12-foot Haybine model 495 was introduced in 1975. It featured 110-inch-wide conditioning rolls to speed drying time, and offered a lateral transport mode.



Full, lateral, header flotation allows the header to hug the ground for clean cutting while minimizing scalping and cutterbar damage.



Adjustable header skid shoes allow for quick cutting height adjustment.

Change from swath to windrow in seconds! Just use the handy lever to adjust the swath gate and you can change from producing a narrow 36-inch windrow to a fast-drying swath up to 96 inches wide (100 inches wide on the 499, 72 inches wide on the 472) or anything in between. The H7150 also features adjustable windrow shields to custom-build windrows or swaths.



Carbon steel alloy guards are hardened twice for longer life. The cutterbar assembly has square back-bar guards and a back-hardened knife assembly for longer wear and less maintenance.



A storage location for complete knife assemblies is provided in the header frame.



Choose standard or stub guards to suit your local crop conditions. Standard guards are streamlined for better penetration in fine grasses and thick undergrowth. Stub guards are recommended for use when cutting dead or wet undergrowth since they will not plug as readily.

Pivot-tongue convenience

499 and H7150 feature higher capacity, more flexibility and added convenience.



In 1983, New Holland introduced the 499. This Haybine model featured pivot-tongue convenience and the unique Rolareel header swept crop from a wide, 12-foot cut into the conditioning rolls without the need for an auger.

Put a New Holland 499 or H7150 Haybine® mower-conditioner to work in your hay fields and you get the capacity of a self-propelled windrower in a highly-maneuverable pivot-tongue package. Easy adjustments give you plenty of flexibility to adapt to different crops and conditions.



Major maneuverability

With a 499 or H7150, you can mow on either side of the tractor, make square corners, open fields easily, and center the machine directly behind the tractor for easy transport. A tongue-mounted swiveling pump with a 1000-rpm, telescoping PTO hookup allows for sharp turning. The pump mounts on the H7150 tongue

frame for easy tractor hookup, improved driveline durability and better maneuverability. The H7150 also provides a best-in-class header lift height – 25 inches – to make it easy to clear tall windrows or obstacles.



Field to road

When you're ready to move to another field, the auto-engaging locks for the 499 and H7150 tongue and header save you time. Just flip the over-center tongue spring latch and header locks, and fully raise the header hydraulically and center it behind the tractor. The tongue lock and header locks engage automatically, so there's no need to get off the tractor a second time.

The H7150 pairs to HS Series headers

The H7150 uses the same high-capacity Haybine® headers used



HS Series header side shields flip up and lock in place for easy maintenance. Hinged shielding on the 499 allows for easy access.

on New Holland self-propelled windrowers. Choose a 14-, 16- or 18-foot cut. The 18-foot width gives you 12% more capacity than most mower-conditioners on the market, and even more than some self-propelled windrowers. The five-bat reel sweeps the crop gently and evenly to the auger. Reel position, reel height, tine pitch angle, and speed are adjustable to suit your conditions.

Unique floating auger

A floating, 20-inch auger swallows the heaviest crop and delivers it

smoothly to the conditioning rolls. Should a large foreign object be pulled into the header, an auger slip-clutch protects the auger and conditioning rolls from damage. An adjustable floor shield between the auger and conditioning rolls can be set wide to allow dirt, stones or other objects to fall out, minimizing contamination of the crop and potential damage to the auger and conditioning rolls. Or set it to a narrow position to make sure short-stemmed or light crops are delivered into the windrow or swath.



A standard toolbox on the H7150 gives you convenient storage space for tools or spare parts.



The 499 Rolareel header

The header of the 12-foot 499 is unusual for a header this wide — there's no auger! The exclusive Rolareel header uses a converging reel to sweep the crop directly into the 110-inch conditioning rolls. Since the rolls are mounted in the main frame, the header is light enough to react quickly to the changing ground contour for a closer, cleaner cut.

Specifications

MODEL	472	488	499
CUTTING WIDTH , ft. in. (mm)	7'3" (2210)	9'3" (2819)	12'3" (3734)
DRIVE	540 rpm PTO	540 rpm PTO	540 rpm PTO
TRACTOR HOOKUP	Equal-angle PTO	Equal-angle PTO	Hydrostatic
MINIMUM TRACTOR REQ	30-hp (22.4 kw) One remote hydraulic circuit required, capable of 1500 psi (10342 kpa)	35-hp (26.1 kw)	60-hp (45 kw) .....Two remote
REEL	4-tine bar	4-tine bar	Rolareel
Peripheral speed, mph (kph)	6.2 to 8.2 (10.4 to 13.2)	6.5 to 8.6 (10.5 to 13.8)	standard: 4.8 to 7.9 (7.7 to 12.7) with reduction kit 4.0 to 6.6 (6.5 to 10.7)
Speed Adjustment	Variable sheave	Variable sheave	Variable sheave
Diameter (maximum), ft. in. (mm)	3' 6-1/4" (1073)	3' 6-1/4" (1073)	3' 7-1/2" (1105)
Adjustments	Fore/aft, vertical, pitch	Fore/aft, vertical, pitch	Fore/aft and vertical
Drive	Belt and chain	Belt and chain	Belt and chain
Bushings/bearings, in. (mm)	.....	.....	1.25 (31.75) bearing w/collar at cam end
CUTTERBAR	One assembly	One assembly	.....Two opposing
Knives	.....	.....	Bolted, over-serrated sections, adjustable
Guards	.....	.....	Twin, forged steel, double-hardened
Cutting height, in. (mm)	1.25 to 4.25 (32 to 108)	1.25 to 4.25 (32 to 108)	1.25 to 6.25 (32 to 159)
Cutting angle, degrees	-7 or -10	-7 or -10	-4 to -10, mech std
Hydraulic tilt	NA	NA	Optional
Guard points max lift, in. (mm)	18-1/2 (470)	19 (483)	19-1/2 (495)
Skid shoes	2	2	2
Sickle drive	wobble joint	wobble joint	enclosed gearbox
Sickle speed, spm	1632	1632	1700
Sickle stroke, in. (mm)	3 (76)	3 (76)	3 (76)
AUGER	NA	NA	NA
Floating range, in. (mm)			
Speed, rpm			
CONDITIONER	.....	.....	Chevron-design intermeshing molded rubber rolls,
Roll length (crushing area), in. (mm)	85 (2159)	102 (2591)	110 (2794)
Roll diameter, in. (mm)	7-3/4 (199)	10-3/8 (264)	10-3/8 (264)
Drives	Individual, #50 roller chain	Individual, #50 roller chain	Gear/shaft
Speed, rpm	818	637	665
Pressure, lbs./in. (N/mm)	2 to 38 (0.3 to 6.6)	2 to 38 (0.3 to 6.6)	2 to 38 (0.3 to 6.6)
Roll gap adjustment	Shims	Shims	Shims
Material discharge, in. (mm)	.....	.....	Adjustable gate for swath, windrow
	38 and 72 (965 and 1829)	38 and 96 (965 and 2438)	38 and 100 (965 and 2540)
OPERATING SPEED , mph (kph)	up to 8 (13)	up to 8 (13)	up to 8 (13)
Max safe transport speed, mph (kph)	20 (32)	20 (32)	20 (32)
TIRES	25 x 7.50-15 flotation	27 x 9.50-15 flotation	11L x 14 4-ply ag implement (HUT)
HYDRAULIC CYLINDERS	Optional header lift Rope control	Optional header lift Rope control	Standard header lift Standard tongue shift
DIMENSIONS			
Overall width, operating, ft. in. (mm)	11'11" (3632)	13'8-1/4" (4172)	19'8" (5994)
Overall width, transport, ft. in. (mm)	10'4-3/4" (3168)	12'2" (3708)	13'9" (4191)
Overall length, transport, ft. in. (mm)	13'1" (3988)	13'4" (4064)	21'6" (6553)
Overall height, operating, ft. in. (mm)	3'5-3/4" (1060)	3'6" (1067)	6'2-1/2" (1892)
Overall height, raised, ft. in. (mm)	4'8" (1422)	5'7" (1702)	6'8-1/2" (2045)
WEIGHT , lbs. (kg)	2110 (957)	2763 (1253)	4480 (2032)

H7150 14-foot	H7150 16-foot	H7150 18-foot
14'3" (4343)	16'3" (4953)	18'3" (5563)
1000 rpm PTO	1000 rpm PTO	1000 rpm PTO
..... New patented, tongue-mounted, swiveling pump		
70 hp (52kw) hydraulic circuits required capable of 1750 psi (12066 kpa).....	70 hp (52kw)	70 hp (52kw)
.....5-bat, all steel, segmented tine bars and full-flex tines.....		
..... 6.5 to 10.9		
.....(10.46 to 17.54).....		
Variable sheave 3' 6" (1067) Fore/aft, vertical, pitch Belt and chain and bushings at all other locations	Variable sheave 3' 6" (1067) Fore/aft,vertical, pitch Belt and chain	Variable sheave 3' 6" (1067) Fore/aft, vertical, pitch Belt and chain
assemblies, timed, dual, counter-stroking sickles		
hold-downs		
1.2 to 6.2 (30 to 157) -6 to -12 Standard 25 (635) 4 Open, dual wobble 1810 3 (76)	1.2 to 6.2 (30 to 157) -6 to -12 Standard 25 (635) 4 Open, dual wobble 1810 3 (76)	1.2 to 6.2 (30 to 157) -6 to -12 Standard 25 (635) 4 Open, dual wobble 1810 3 (76)
Single, full floating, 20-in (508 mm) auger with 5 in (127 mm) flighting 2 (50.8) 287	2 (50.8) 287	2 (50.8) 287
torsion-bar roll pressure, single hand-crank adjustment.....		
102 (2591) 10.375 (263.5)	102 (2591) 10.375 (263.5)	102 (2591) 10.375 (263.5)
.....Spur drive gearbox and PTOs		
717 2 to 38 (0.3 to 6.6) Wrench or intermediate widths	717 2 to 38 (0.3 to 6.6) Wrench	717 2 to 38 (0.3 to 6.6) Wrench
38 to 96 (965 to 2438)	38 to 96 (965 to 2438)	38 to 96 (965 to 2438)
up to 8 (13) 20 (32)	up to 8 (13) 20 (32)	up to 8 (13) 20 (32)
..... 31 x 13.50-15, 8PR agricultural Implement		
Standard header lift Standard tongue shift	Standard header lift Standard tongue shift	Standard header lift Standard tongue shift
16'3" (4953) 16' 3" (4953) 25' 11" (7900) 6' 1" (1850) 6' 8" (2030) 6,825 (3096)	18'3" (5563) 18' 3" (5563) 25' 11" (7900) 6' 1" (1850) 6' 8" (2030) 7,045 (3196)	20'3" (6172) 20' 3" (6172) 29' 7" (9020) 6' 1" (1850) 6' 8" (2030) 7,345 (3332)

OPTIONAL EQUIPMENT:

- Stub guards (472, 488, H7150 from parts)
- Crop dividers (right-hand standard on 472, 488 and 499; left-hand standard on 499)
- Push-bar extension (472, 488)
- Hydraulic lift kit (standard on 499)
- Reel speed reduction kit (499)
- Hydraulic guard angle adjustment kit (499 only)
- Spare-knife holder kit (standard on 499)
- Center skid shoe kit (499 only)
- Safety tow chain
- Knife assembly storage (standard on 499 and H7150, optional on 472, 488)
- Gauge wheel bundle (H7150)
- Reel-bat truss kit (H7150)
- High-contact chevron conditioning rolls (H7150)
- Slatted steel conditioning rolls (H7150)

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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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