

New Holland Pull-Type Forage Harvesters

790 FP230 FP240



NEW HOLLAND



The best in high capacity and chop quality

Rugged New Holland forage harvesters produce higher quality feed—and more of it.

New Holland's best-selling line of forage harvesters is better than ever with three pull-type models that deliver high-capacity performance and the uniform chop you're looking for. All feature wide, rugged 12-knife cutter-heads built for efficient chopping. If you use a tractor under 150 PTO hp,

choose the Model 790 with either a 540- or 1000-rpm driveline. It's recognized as the benchmark for mid-size pull-type forage harvesters in North America. For even greater capacity, choose the FP230 or FP240. They're heavy-duty performers that have been thoroughly tested to match today's

higher-horsepower tractors—from the rugged 1000-rpm driveline gearbox all the way to the cast iron spout base. For added versatility, the FP230 and FP240 can be equipped with New Holland's optional CropPro® onboard crop processor. CropPro makes corn silage that's easier to digest, which



helps increase milk production and eliminates the expense and process time of a stationary roller mill.

Model	Overall Width	Tractor Max PTO hp
790	9'6"	150
FP230	10'8"	225
FP240	10'8"	300

Convenience and peace of mind

New Holland forage harvesters take the hassle out of your work. Built-in knife sharpeners and hardened, reversible, easy-to-adjust shearbars make it easy to maintain cutting performance. Lightweight, hinged shielding and exclusive flip-up feedrolls provide easy access to all major components. For added peace of mind,

rely on the Metalert® III electronic metal detector to protect your livestock from hardware disease and protect your cutter-head from damage. It's standard on the FP240 and optional on the 790 and FP230.

Chop your way to greater productivity with a New Holland forage harvester. See one at your New Holland dealer.



Uniform length of cut

A key to high-quality feed.

A uniform length of cut not only yields high-quality feed, it makes everything easier—unloading, blowing, storing and feeding. The key to a consistent chop is smooth crop flow through the forage harvester. It's a process New Holland has perfected.

Smooth feeding

New Holland chop quality starts with four power-driven feedrolls that deliver material smoothly to the cutterhead for a controlled, even cut.



A special gearbox permits reversing the feedrolls and header drive to clear heavy slugs in case of overload. An electric clutch provides immediate response and positive control of the gearbox.

The front feedrolls are aggressive to handle heavy materials and pull in slugs. The smaller, rear feedrolls grip the crop tightly to ensure an even, precise cut to keep cobs or long pieces of silage from getting into the wagon or truck. Spring-loaded upper feedrolls keep material compressed to reduce bunching and plugging problems, assuring consistent length of cut.



Standard electric remote controls for spout, feedrolls and attachment drives let you control all operations right from your tractor seat.

Uniform chopping

The heart of New Holland forage harvesters is the massive, 12-knife cutterhead that's built to move more crop and chop it uniformly using full-width, spiral, hardened-alloy knives with tungsten edges. Producing high-quality feed with less power and less fuel, there's simply no better cutterhead—and none that's easier to sharpen. The built-in knife sharpener and easy-to-adjust shearbar ensure chopping at peak efficiency. A shearbolt protects the driveline if a foreign object hits the cutterhead.

Average Length of Cut in. (mm)			
12 knives	8 knives	6 knives	4 knives
$\frac{1}{8}$ (4.8)	$\frac{1}{4}$ (7.1)	$\frac{1}{2}$ (7.1)	$\frac{3}{4}$ (7.1)
$\frac{1}{4}$ (6.4)	$\frac{3}{8}$ (9.5)	$\frac{1}{2}$ (12.7)	$\frac{3}{4}$ (19.1)
$\frac{1}{4}$ (6.4)	$\frac{3}{8}$ (9.5)	$\frac{1}{2}$ (12.7)	$\frac{3}{4}$ (19.1)
$\frac{5}{16}$ (8)	$\frac{7}{16}$ (11.1)	$\frac{1}{2}$ (16)	$\frac{15}{16}$ (24)
$\frac{3}{8}$ (9.5)	$\frac{9}{16}$ (14.3)	$\frac{3}{4}$ (19.1)	$1\frac{1}{8}$ (28.6)
$\frac{7}{16}$ (11.1)	$2\frac{1}{2}$ (16.7)	$\frac{3}{4}$ (22.2)	$1\frac{15}{16}$ (33.3)

More cut length choices

New Holland forage harvesters offer the widest length of cut selections to match your exact feeding requirements. You can vary length of cut by changing feedroll speed, adding or removing knives or by using one of six optional recutter screens for non-processor machines.

No slowdown at the blower

Smooth crop flow continues at the blower. A 1000-rpm blower on the FP230 and FP240 moves crop fast for increased productivity. A quick-shift two-speed blower on the 790 saves a tractor gear in easy-to-blow crops.



Fast sharpening and adjustment

Unique features keep you chopping at peak efficiency.

One of the reasons chop quality is the hallmark of New Holland forage harvesters is because New Holland makes it so easy to maintain optimum

chop quality. Knife sharpening and shearbar adjustment are a snap. The cutterhead reverses to ensure a true cutting edge on all knives. Sharp knives

and a properly adjusted shearbar keep you chopping at peak productivity and save on tractor wear and fuel by reducing power requirements.



EXCLUSIVE!

Flip-up feedrolls allow you to routinely clean and inspect the shearbar and smooth roll scraper without taking them out of the machine. The upper feedroll lifts up without removing the crophead.



Lightweight, hinged shielding panels lift easily, making lubrication, adjustment and inspection nearly effortless.



Built-in knife sharpener features a huge, three-inch-diameter, ratchet-advanced stone for faster-than-ever sharpening. (The Model 790 uses a two-inch diameter stone.)



Shearbar is hardened on both top and side for even wear and extra-long life. And, it's reversible, so when one side wears down, just turn it around.



Chop and process corn silage in one operation

CropPro™ crop processor produces more digestible feed for increased milk production.

Improve your corn silage feed efficiency with New Holland's optional onboard CropPro™ crop processor.



Factory installed between the cutter-head and blower, the CropPro crop processor shears cobs and stems, and cracks and crushes kernels, producing silage that is higher in effective fiber and easier for your herd to digest. That means higher milk production without buying additional feed or supplements, and without the expense and process time of a stationary roller mill. A single baffle is easy to remove to quickly change from corn silage to haylage.



A seven-foot-long, 11 $\frac{1}{8}$ -inch-diameter cross-flow auger moves silage from the crop processor to the blower fan.



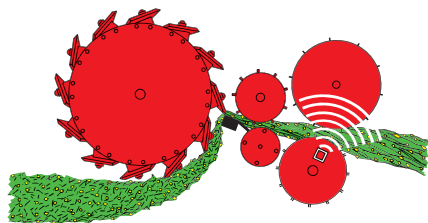
Protect your equipment and your cattle

Metalert® III electronic metal detector stops feedrolls within 1/20 of a second.

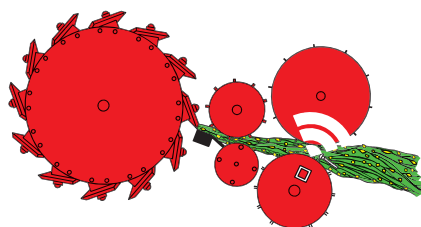
Broken rake tines, sickle sections, lost hitch pins and other metal objects can turn up in the cleanest fields. Large pieces can cause costly cutterhead damage. And, if metal ends up in livestock feed, it can harm your valuable herd. Equip your New Holland forage harvester with the optional Metalert® III electronic metal detector. It delivers peace of mind and a five-year cutterhead protection plan that pays for all parts and labor to repair any damaged part resulting from ferrous metal entering the cutterhead. The Metalert III microcomputer also provides on-board diagnostic capabilities.

New Holland's 30 years of experience with metal detectors has lead to the Metalert® III system. Here's how it works:

A magnet and sensor are housed in the lower front feedroll. The magnet



emits a constant magnetic field between the two front stainless steel feedrolls. When a stray piece of iron or steel enters the feedrolls, a signal is sent to a solenoid



located above the upper feedroll. The solenoid releases a spring pawl into the ratchet wheel, stopping the feedrolls. At the same time, it shuts off power to an electric clutch on the reversing gearbox, which shifts to neutral and stops power to the feedroll drive. All within 1/20 of a second!



A built-in alarm light and horn alert you when metal is detected. Simply back the material out of the feedrolls with this feedroll control switch. Metalert III automatically resets when the metal has been removed.



Crop-saving heads



Windrow pickups and cornheads make it easy to gather all the crop you grow.

New Holland cropheads are designed to keep pace with the high-capacity demands of New Holland forage harvesters. All cropheads are PTO shaft driven for easier hookup and removal. Shaft drive provides increased reliability and less maintenance than chain drives. Take a look at the New Holland advantages:

Super-Sweep Windrow Pickup Headers

- Quick-attach PTO for easy header changes.
- Closely-spaced, curved rubber pickup tines flex to pick up the short, fine stemmed material other pickups miss.



- Open-end design allows for easy pick up of wide or wind-blown windrows.
- Extra-rugged gauge wheels take the punishment of frequent bumps.
- Floating auger with retractable fingers (retractable fingers are optional for the 27P) provides even crop flow into the feedrolls for high-quality chopping. The auger reverses with the feedrolls to easily clear overloads.

Cornheads

- Floating points with adjustable skid shoes eliminate bulldozing and maximize the intake of cornstalks, even in lodged crop conditions.
- Spring-loaded cutoff discs cut corn close to the soil without dragging the ground.
- Gathering chains work away from the mud and extend far forward to grab the stalks before they're cut.
- Aggressive auger delivers a smooth flow of material.
- Right- and left-hand power dividers are standard equipment on the 3PN.



Windrow Pickups				790	FP230	FP240	Cornheads		790	FP230	FP240
890W	71" tine to tine			X			824	two-row narrow or wide			
27P	76.5" tine to tine				X	X		28" to 34", or 36" to 40"			
29P	92" tine to tine				X	X		in two-inch increments	X	X	
							3PN	three-row narrow or wide			
								28" to 32" row spacing		X	X

Specifications

	Model 790	Model FP230	Model FP240
Weight (single axle), lbs (kg)	3104 (1411)	4500 (2040)	4700 (2130)
Length	16'1½" (4.98 m)	21'6" (6.5 m)	21'6" (6.5 m)
Height with standard spout	10'6" (3.2 m)	11'2" (3.4 m)	11'2" (3.4 m)
Width	9'6" (2.79 m)	10'8" (3.3 m)	10'8" (3.3 m)
Number/Type of Knives	12 single-edge hardened alloy		
Cutterhead, type/speed	Cylinder, 850 rpm		
Cutterhead, diameter	19⅞" (490.5 mm)	21" (533.4 mm)	21" (533.4 mm)
Throat opening	19" x 4⅞" (482 mm x 117 mm)	22" x 6⅞" (558.8 mm x 167.7 mm)	24⅞" x 6⅞" (619.76 mm x 167.6 mm)
Shearbar	Quick adjust, reversible, hard-faced on vertical and horizontal surfaces		
Length of cut*	⅞" to 1½" (3.2 mm to 38.1 mm)	⅝" to ⅞" ** (76.2 to 177.8 mm)	⅝" to ⅞" ** (76.2 to 177.8 mm)
Blower speed	1000 or 750 rpm	1000 rpm	1000 rpm
Recommended max. tractor hp	150 PTO hp	225 PTO hp	300 hp
Minimum power required	75 PTO hp	150 PTO hp	180 PTO hp
Knife sharpener	2" manual, built-in	3" manual, built-in	3" manual, built-in
Recutter screens (non processor units)	5 sizes available	6 sizes available	6 sizes available
Vertical wheel adjustment	4½" (114 mm)	6" (152 mm)	6" (152 mm)
Tire sizes, single axle	11Lx14 6PR standard 31x13.5-156PR optional	31x13.5-158PR standard 14Lx16.1 8PR optional	14Lx16.1 8PR standard
Tire sizes, tandem axle	N/A	11Lx15-156PR	11Lx15-15 6PR
*Longer lengths of cut can be obtained by removing knives—up to 1⅞" length of cut with only four knives.			
Optional CropPro™ Crop Processor	Not available	Optional	Optional
Construction	—	Hardened ductile iron, steel shaft	
Weight	—	490 lbs (218kg)	520 lbs (231kg)
Roll width	—	24.5" (622.3 mm)	26⅞" (682.6 mm)
Roll diameter	—	7⅞" (200 mm)	7⅞" (200 mm)
Roll gap	—	⅝" to ⅞" (4.8 to 15.9 mm)	⅝" to ⅞" (4.8 to 15.9 mm)
Roll speed	—	2650 rpm upper 2250 rpm lower	2650 rpm upper 2250 rpm lower

CORNHEADS	Model 824	Model 3PN
Number of rows	2	3
Row spacing	28" to 40" variable (711 mm to 1016 mm)	28" to 32" (711 mm to 813 mm)
Overall width	5'4" to 6'6" variable (1626 to 1981 mm)	7' 8" (2337mm)
Length	6'3" (1905 mm)	7'9" (2362mm)
Height	33⅞" (857 mm)	53" (1346mm)
Weight	865 lbs (392 kg)	2030 lbs (921kg)
Drive Protection	Shearbolt	Slip clutch
Type of sickle	Rotary	Rotary
Stalk deflector	Standard	Standard
Power divider	Standard	Standard (L & R)
Chain size	Ag Impl #620	#60 Roller chain

WINDROW PICKUPS	Model 890W	Model 27P	Model 29P
Tine width	5'11" (1.79 m)	6'4½"	7'8"
Pickup width	7' (2.12 m)	7'7" (2.15 m)	8'2½" (215 m)
Total unit width, with skid shoes	7'4" (2.19 m)	—	—
Total unit width, w/roller and gauge wheel	8' (2.45 m)	8' 10" (2.69 m)	9' 9½" (2.98 m)
Number of tines	84	120	144
Pickup drive	V-belt	Chain/gear set	Chain/gear set
Auger outside diameter	18" (457 mm)	20" (508 mm)	20" (508 mm)
Auger drive	#50 roller chain	#60 Roller chain	#80 Roller chain
Overload protection	Slip clutch	Slip clutch	Slip clutch
Windguard	Standard	Standard	Standard
Weight (approx)	692 lbs. (314 kg)	1050 lbs (476 kg)	1200 lbs (544 kg)
Optional Equipment	Transport wheels	—	—

Optional equipment

- Metalert®III electronic metal detector (Standard on FP240)
- CropPro™ crop processor (FP230/FP240)
- Spout extensions
- Hydraulic swing tongue
- Automatic wagon hitch
- Tandem axle (FP230/FP240)
- Recutter screens
- Four paddle blower kit



You'll find it at the blue and white sign.

Globally, we're a valued leader in innovative agricultural and construction equipment and a wide range of financial services.

Locally, we're your trusted New Holland dealer — the specialist at the blue and white sign who's always there with the equipment, parts, service and financing you and your operation need.

Together, we're working to deliver the best value in today's dynamic world economy.

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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.

NH3140603 • 060620 • API • PRINTED IN U.S.A.