New Holland
Pull-Type Forage Harvesters
790 FP230 FP240
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 cutterheads 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.

<table>
<thead>
<tr>
<th>Model</th>
<th>Overall Width</th>
<th>Tractor Max PTO hp</th>
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<tbody>
<tr>
<td>790</td>
<td>9'6&quot;</td>
<td>150</td>
</tr>
<tr>
<td>FP230</td>
<td>10'8&quot;</td>
<td>225</td>
</tr>
<tr>
<td>FP240</td>
<td>10'8&quot;</td>
<td>300</td>
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**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 cutterhead 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.
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.

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.

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.

<table>
<thead>
<tr>
<th>Average Length of Cut in. (mm)</th>
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<tbody>
<tr>
<td>12 knives</td>
</tr>
<tr>
<td>3/16 (4.8)</td>
</tr>
<tr>
<td>1/4 (6.4)</td>
</tr>
<tr>
<td>5/32 (8)</td>
</tr>
</tbody>
</table>

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

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.
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.

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.)

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

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, 11¾-inch-diameter cross-flow auger moves silage from the crop processor to the blower fan.
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.

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

<table>
<thead>
<tr>
<th>Windrow Pickups</th>
<th>790</th>
<th>FP230</th>
<th>FP240</th>
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<tbody>
<tr>
<td>890W 71” tine to tine</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>27P 76.5” tine to tine</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>29P 92” tine to tine</td>
<td>X</td>
<td>X</td>
<td></td>
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<table>
<thead>
<tr>
<th>Cornheads</th>
<th>790</th>
<th>FP230</th>
<th>FP240</th>
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<tbody>
<tr>
<td>824 two-row narrow or wide</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3PN three-row narrow or wide</td>
<td>X</td>
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- 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.
## Specifications

### Model 790
- **Weight (single axle), lbs (kg):** 3104 (1411)
- **Length:** 16'1 1⁄4" (4.98 m)
- **Height with standard spout:** 10'6" (3.2 m)
- **Width:** 9'6" (2.9 m)
- **Number/Type of Knives:** 12 single-edge hardened alloy
- **Cutterhead, type/speed:** Cylinder, 850 rpm
- **Cutterhead, diameter:** 19 1⁄4" (490.5 mm)
- **Throat opening:** 19" x 4 1⁄4" (482 mm x 117 mm)
- **Shearbar:** Quick adjust, reversible, hard-faced on vertical and horizontal surfaces
- **Length of cut:** 1⁄8" to 11⁄2" (3.2 mm to 38.1 mm)
- **Blower speed:** 1000 rpm
- **Recommended max. tractor hp:** 150 PTO hp
- **Minimum power required:** 75 PTO hp
- **Knife sharpener:** 2" manual, built-in
- **Recutter screens:** 5 sizes available
- **Vertical wheel adjustment:** 4 1⁄2" (114 mm)
- **Knife sharpener:** 2" manual, built-in
- **Roll width:** 24 1⁄2" (622.3 mm)
- **Roll diameter:** 7 7⁄8" (200 mm)
- **Roll gap:** 3⁄16" to 5⁄8" (4.8 to 15.9 mm)
- **Roll speed:** 2650 rpm
- **Drive Protection:** Shearbolt Slip clutch
- **Type of sickle:** Rotary
- **Stalk deflector:** Standard
- **Power divider:** Standard
- **Chain size:** Ag Impl #620
- **Auger drive:** #50 roller chain
- **Overload protection:** Slip clutch
- **Windguard:** Standard
- **Weight (approx):** 865 lbs (392 kg)
- **Optional Equipment:** Transport wheels

### Model FP230
- **Weight (single axle), lbs (kg):** 4500 (2040)
- **Length:** 21'6" (6.5 m)
- **Height with standard spout:** 11'2" (3.4 m)
- **Width:** 10'8" (3.3 m)
- **Number/Type of Knives:** Cylinder, 850 rpm
- **Cutterhead, type/speed:** Cylinder, 850 rpm
- **Cutterhead, diameter:** 21" (533.4 mm)
- **Throat opening:** 22" x 6 1⁄4" (558.8 mm x 167.7 mm)
- **Shearbar:** Quick adjust, reversible, hard-faced on vertical and horizontal surfaces
- **Length of cut:** 1⁄8" to 11⁄2" (3.2 mm to 38.1 mm)
- **Blower speed:** 1000 rpm
- **Recommended max. tractor hp:** 225 PTO hp
- **Minimum power required:** 150 PTO hp
- **Knife sharpener:** 3" manual, built-in
- **Recutter screens:** 6 sizes available
- **Vertical wheel adjustment:** 6" (152 mm)
- **Knife sharpener:** 3" manual, built-in
- **Roll width:** 26 7⁄8" (682.6 mm)
- **Roll diameter:** 7 7⁄8" (200 mm)
- **Roll gap:** 3⁄16" to 7⁄16" (4.8 to 11.1 mm)
- **Roll speed:** 2650 rpm
- **Drive Protection:** Shearbolt Slip clutch
- **Type of sickle:** Rotary
- **Stalk deflector:** Standard
- **Power divider:** Standard
- **Chain size:** Ag Impl #60
- **Auger drive:** #60 Roller chain
- **Overload protection:** Slip clutch
- **Windguard:** Standard
- **Weight (approx):** 2030 lbs (921 kg)
- **Optional Equipment:** Transport wheels

### Model FP240
- **Weight (single axle), lbs (kg):** 4700 (2130)
- **Length:** 21'6" (6.5 m)
- **Height with standard spout:** 11'2" (3.4 m)
- **Width:** 10'8" (3.3 m)
- **Number/Type of Knives:** Cylinder, 850 rpm
- **Cutterhead, type/speed:** Cylinder, 850 rpm
- **Cutterhead, diameter:** 21" (533.4 mm)
- **Throat opening:** 24" x 6 1⁄4" (619.76 mm x 167.6 mm)
- **Shearbar:** Quick adjust, reversible, hard-faced on vertical and horizontal surfaces
- **Length of cut:** 1⁄8" to 11⁄2" (3.2 mm to 38.1 mm)
- **Blower speed:** 1000 rpm
- **Recommended max. tractor hp:** 300 hp
- **Minimum power required:** 180 PTO hp
- **Knife sharpener:** 3" manual, built-in
- **Recutter screens:** 6 sizes available
- **Vertical wheel adjustment:** 6" (152 mm)
- **Knife sharpener:** 3" manual, built-in
- **Roll width:** 27 3⁄4" (705.8 mm)
- **Roll diameter:** 7 7⁄8" (200 mm)
- **Roll gap:** 3⁄16" to 7⁄16" (4.8 to 11.1 mm)
- **Roll speed:** 2650 rpm
- **Drive Protection:** Shearbolt Slip clutch
- **Type of sickle:** Rotary
- **Stalk deflector:** Standard
- **Power divider:** Standard
- **Chain size:** Ag Impl #60
- **Auger drive:** #60 Roller chain
- **Overload protection:** Slip clutch
- **Windguard:** Standard
- **Weight (approx):** 1200 lbs (544 kg)
- **Optional Equipment:** Transport wheels

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### CORNHEDS

#### Model 824
- **Number of rows:** 2
- **Row spacing:** 28" to 40" variable
- **Overall width:** 5' 4" to 6' 6" variable
- **Length:** 6' 3" (1905 mm)
- **Height:** 33 3⁄4" (857 mm)
- **Weight:** 865 lbs (392 kg)
- **Drive Protection:** Shearbolt Slip clutch
- **Type of sickle:** Rotary
- **Stalk deflector:** Standard
- **Power divider:** Standard
- **Chain size:** Ag Impl #620

#### Model 3PN
- **Number of rows:** 3
- **Row spacing:** 28" to 32" (711 mm to 813 mm)
- **Overall width:** 7' 8" (2337 mm)
- **Length:** 7' 9" (2362 mm)
- **Height:** 53" (1346 mm)
- **Weight:** 2030 lbs (921 kg)
- **Drive Protection:** Slip clutch
- **Type of sickle:** Rotary
- **Stalk deflector:** Standard
- **Power divider:** Standard (L & R)

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### WINDROW PICKUPS

#### Model 890W
- **Tine width:** 5' 11" (1.79 m)
- **Pickup width:** 7' (2.12 m)
- **Total unit width, with skid shoes:** 7' 4" (2.19 m)
- **Total unit width, w/roller and gauge wheel:** 8' (2.45 m)
- **Number of lines:** 84
- **Pickup drive:** V-belt
- **Auger outside diameter:** 18" (457 mm)
- **Auger drive:** #50 roller chain
- **Overload protection:** Slip clutch
- **Windguard:** Standard
- **Weight (approx):** 692 lbs (314 kg)
- **Optional Equipment:** Transport wheels

#### Model 27P
- **Tine width:** 6' 4" (1.93 m)
- **Pickup width:** 7' 7" (2.31 m)
- **Total unit width, with skid shoes:** 8' 10" (2.69 m)
- **Number of lines:** 120
- **Pickup drive:** Chain/ger set
- **Auger drive:** #60 roller chain
- **Overload protection:** Slip clutch
- **Windguard:** Standard
- **Weight (approx):** 1050 lbs (476 kg)
- **Optional Equipment:** Transport wheels

#### Model 29P
- **Tine width:** 7' 8" (2.34 m)
- **Pickup width:** 8' 10" (2.69 m)
- **Total unit width, with skid shoes:** 9' 9 1⁄2" (2.98 m)
- **Number of lines:** 144
- **Pickup drive:** Chain/ger set
- **Auger drive:** #80 Roller chain
- **Overload protection:** Slip clutch
- **Windguard:** Standard
- **Weight (approx):** 1300 lbs (590 kg)
- **Optional Equipment:** Transport wheels

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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.

With productive equipment. You won’t find a more complete and modern line of tractors, hay tools, combines and crop production equipment — with a wider selection of models offering the latest performance, convenience and comfort features — than at your New Holland dealer.

With quality parts and service. Turn to your New Holland dealer after the sale for expert, factory-trained service and genuine New Holland-branded parts to keep you working productively. After all, you’ve placed your confidence in the best equipment, and you deserve the finest support — whether at the service counter or in the field.

With financing solutions. Your New Holland dealer can tell you about smart ways to maximize cash flow, preserve working capital and protect what’s important.

With a portfolio of innovative financial services available through CNH Capital, like customized financing, leasing, insurance, and the purchasing convenience of a Commercial Revolving Account, your New Holland dealer can turn your financial challenges into opportunities. You name it — equipment, parts and service, financing, or just trusted, honest advice on farming and finance — you’ll find it all at the blue and white sign. Around the world, or right down the road, we’re the company you can always turn to.