

# New Holland Self-Propelled Forage Harvesters

FX30 FX40 FX60

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NEW HOLLAND



# Peak-quality silage at peak speed

## New FX forage harvesters put you in total command of your harvesting success.

The new FX30, FX40 and FX60 self-propelled forage harvesters from New Holland are designed to create high-quality feed. They're also built to help you work faster — in all crop conditions — with added convenience, comfort and control.

### Maximum crop intake

FX forage harvesters have one of the widest feed openings in the industry to take in more crop fast.

### Smoother feeding

New Holland's innovative HydroLoc™ system synchronizes the speed of the header and feedrolls for optimum crop

feeding. This new hydrostatic feedroll drive also allows you to set length of cut conveniently from the cab and provides a wide range of cut lengths from  $\frac{1}{4}$  to  $1\frac{1}{6}$  inches (6 to 30 mm) with all eight knives installed. The state-of-the-art Metalert III® metal detector is now an integral component of the HydroLoc system, providing 40% faster detection than the previous mechanical system.

### Massive cutterhead

The four wide feedrolls move crop smoothly to the rugged, 30-inch FX cutterhead. Beveled, reversible knives span the whole width of the cutterhead for the ultimate in chopping performance. The

superior-knife-to-shearbar angle maximizes cutterhead efficiency and provides a cleaner cut with less power.

### Awesome power

The FX's huge chopping capacity is matched by huge horsepower so you can chop faster than ever before. Turbocharged, intercooled, six-cylinder engines deliver more torque than V8 engines. These FX powerplants feature high cubic inch displacement for better power and longer life. You also benefit from superior fuel efficiency and the new 240-gallon fuel tank capacity that lets you harvest more acres between refuelings.



### Accucut™ assures peak chop quality

With regularly sharpened knives, you can achieve maximum capacity and the best quality chop with less power and fuel consumption. No one makes this easier than New Holland. The fully automated Accucut™ system lets you sharpen knives quickly in the field and adjust the shearbar — all from the comfort of your seat. You can even sharpen as you travel from field to field. The system sharpens at high idle for the quickest sharpening action.

### CropPro™ Plus crop processor

There's no better way to produce quality corn silage for cattle rumen health and crop digestibility than with the

optional CropPro™ Plus crop processor. It shreds cobs and stems, and cracks and crushes kernels for higher-quality feed. You can engage and disengage the processing system from the cab with the push of a button.

### Better visibility and control

The FX cab is the most comfortable you'll find on the market. Greater all-around visibility is one feature that

really sets the FX cab apart. You have unobstructed views to the front, side and back. The convenient multifunction handle controls all the main components while the InfoView™ monitor provides user-friendly feedback and the ability to make on-the-go adjustments.

Quality silage in less time. That's what FX forage harvesters can do for you. Visit the forage specialists at your New Holland dealer for a firsthand look.

Model	No. of Knives	No. of Feedrolls	Cutterhead	Maximum Power at 1800 rpm, hp (kW)
FX30	12	4	30 inches	386 (284)
FX40	8	4	30 inches	460 (338)
FX60	8	4	30 inches	571 (420)



# Smooth, high-volume crop flow

**Extra-wide feedrolls and massive cutterhead allow you to chop at maximum efficiency.**

Every part of a New Holland FX forage harvester is designed for high volume chopping. The wide feed opening, wide feedrolls, enormous cutterhead and efficient blower all work together to maximize your harvesting capacity.



*This wide feedroll opening provides maximum crop intake. The new HydroLoc™ hydrostatic feedroll drive allows you to change length-of-cut on-the-go.*

## Wide feed opening

The 30-inch-wide FX feedroll opening allows the FX to take in the heaviest crop with ease. Crop moves from the header to the cutterhead in a wide, even mat, making the material easier to chop, reducing fuel consumption and knife wear and increasing capacity.

## Smooth feeding

Four wide feedrolls grip the crop and deliver it uniformly to the cutterhead. The upper feedrolls automatically adjust to the volume of incoming crop, using four compression springs to apply even pressure for smooth crop flow. Feedroll speed is synchronized with the header auger for optimum crop feeding, even in changing conditions.

## No trash build-up

Sharp metal slot cutters attached to the top of the feedroll cut through trash,

which is then quickly evacuated by impellers on the feedroll shafts. After the crop passes over the first set of feedrolls, a set of secondary rollers helps compact the crop mat for delivery to the cutterhead. The rear feedrolls pivot on the same arc as the cutterhead for better chop quality.

## Infinite length of cut

With this new line of FX forage harvesters, New Holland introduces the new HydroLoc™ feedroll drive system. This innovative new system uses a dedicated hydrostatic pump and motor to drive the feedrolls and attachment, and allows you to adjust length of cut infinitely from  $\frac{1}{4}$  to  $1\frac{3}{16}$  inch (with an eight-knife cutterhead). You change length-of-cut on-the-go from the cab using the InfoView™ monitor, and as you increase or decrease length of cut, the attachment component speeds also increase or decrease proportionately.



## Massive 30-inch cutterhead

Weighing in at 750 pounds, the wide FX cutterhead is designed for exceptional durability and efficient, high-capacity chopping. The open-cage design adds to its strength and efficiency. When operating at rated working speeds and fitted with 12 knives, it runs at 1229 rpm,

delivering 14,748 full-width cuts per minute. The unique, full-width, reversible spiral knives provide a scissor-like cutting action to produce a consistent chop length. Unlike competitive machines, the FX cutterhead gives you the flexibility to use different knife combinations (3, 4, 6, 8, or 12) to achieve an even larger selection of chop lengths. The full-width design of the knives saves both time and maintenance costs when you need to add or replace knives.

## Uncompromised throughput

FX harvesters use a huge four-paddle blower that's positioned at a 20-degree angle as it receives chopped crop from the cutterhead. This allows the crop to continue its momentum without slowdown. The blower paddles turn the crop 90 degrees and propel it at tremendous speed out the discharge spout. Two blower speeds allow you to match crops and conditions. Blower paddles are both adjustable and replaceable.

## Greater spout rotation

The blower angle also provides for a 210-degree spout rotation — the greatest degree of rotation in the industry — so you can easily watch crop discharge while you remain seated. You control the double-spout flipper electro-hydraulically from the cab to direct crop wherever you want it, including into low, covered wagons and trucks.

*The best-in-class 210-degree spout rotation makes it especially easy to fill trailers on either side of the harvester.*



# Higher-quality feed





## Accucut™ system makes maintaining peak chop quality easier than ever.

FX forage harvesters make it easy to maintain a smooth, even chop because the FX cutterhead is so easy to sharpen. When knives are blunt, or when shearbar distance is too great, not only does the quality of cut decrease, your horsepower requirement and fuel usage increase. Blunt knives can require up to three times more power to chop the same tonnage. New Holland's patented, fully automatic Accucut™ knife-sharpening and shearbar-setting system allows you to make precise adjustments quickly in the field — or as you travel from field-to-field to keep the cutterhead operating at peak capacity.



*The three-inch-diameter sharpening stone is mounted on a heavy-duty chrome bar so it travels smoothly across the full width of the knives for even sharpening.*

### Regular knife sharpening made easy

You control the fully automated Accucut process right from your seat using the InfoView monitor. You choose a convenient one-, two-, or three-minute process so you can sharpen knives more frequently to maintain maximum efficiency. A three-inch sharpening stone sharpens the knives while the cutterhead is in reverse, then two knock sensors are used to align the shearbar for a perfect chop. Reverse sharpening



provides the best knife-to-shearbar tolerance for the very best performance, and keeps the heel of the knife away from the shearbar for less power consumption.

### A choice of shearbars

Two shearbars are available — a grass shearbar with hard-faced edges and a shearbar for corn that also has a long, hard-faced center section. All New Holland shearbars are fully reversible for a long, double life.



# Guard your investment

## Metalert III® system protects the FX cutterhead and your cattle.

Junk metal in windrows is a threat to both equipment and livestock. That's why the Metalert III® electronic metal detection system is standard equipment on all FX harvesters.

### Largest electro-magnetic field

New Holland has perfected the Metalert III system with over three decades of harvesting experience, and it continues to be the most advanced metal detection system found in hay fields today. This state-of-the-art system offers greater magnetic field coverage than competitive systems so you can be sure you're getting the most effective detection possible. Metalert III detects not only the typical scrap metal you might find in fields, like sickle sections and rake teeth, it also finds very small items like nails, screws and bits of wire. These small items might pass through your harvester without causing any damage, but they are likely to find their way into your cattle's feed ration, causing hardware disease and the suffering and cost associated with it.

### Fastest detection ever

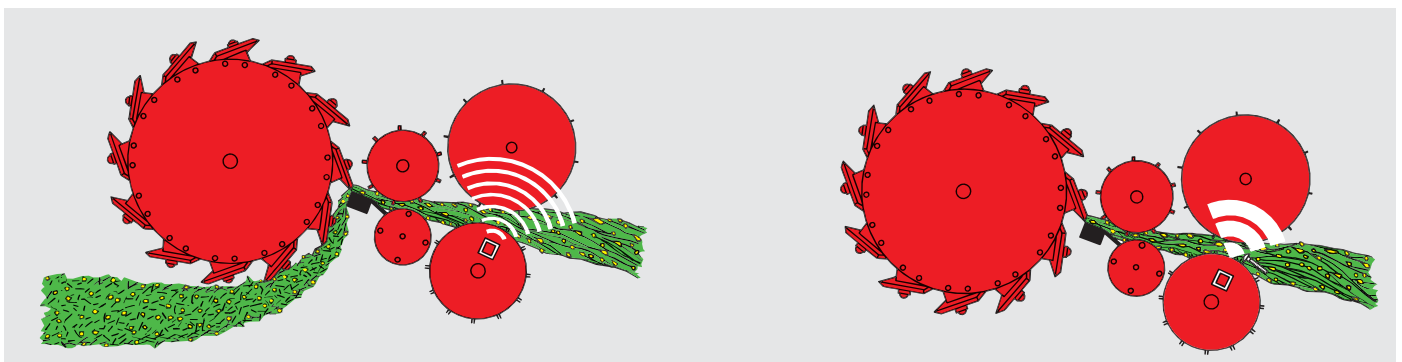
Metalert III is now an integral part of the HydroLoc™ system and stops the feedrolls faster than ever. The moment



ferrous metal passes over the magnets located in the lower front feedroll, HydroLoc hydraulically stops the feedrolls and attachment drive. Then you can reverse the feedrolls to discharge the crop and remove the offending objects. Here's another plus — the system self-adjusts to eliminate the false detections that are common with other systems as they age.

### Peace of mind

New Holland backs its electronic Metalert III system with a five-year cutterhead protection program that's the best in the business. It pays for all parts and labor to repair any damaged part resulting from ferrous metal entering the cutterhead to give you added peace of mind.



The Metalert III® metal detection system uses 10 permanent ceramic magnets mounted in the lower front feedroll to produce a large electro-magnetic field. When a detection is made, the electro-hydraulic valve of the HydroLoc™ system switches to a neutral position and hydraulically stops the feedrolls in 60/1000 second — even faster than previous models without HydroLoc.



# Boost your feed value

## CropPro™ Plus crop processor chops and processes corn silage in one operation.

For corn silage that's higher in effective fiber and easier for cattle to digest, equip your FX harvester with the optional CropPro™ Plus crop processor. It uses two large, eight-inch-diameter serrated rollers running at different speeds to shred cobs and stems while cracking and crushing kernels. The 12% speed differential of the rolls provides the effective cracking and crushing action on kernels. Cracked kernels release their entire feed value content to an animal's rumen system, improving your feed value and increasing milk production.

### Corn to haylage in an instant

With the push of a button inside the cab, you can open CropPro Plus to its fullest (eight inches), allowing crop to pass through without being processed. So you can change from chopping haylage to processing corn silage and back in seconds. A door covers the bottom roll when open to stop any roll wear while chopping and not processing. You can also adjust the distance between the twin serrated rollers electrically using the InfoView™ monitor.



### An integral design

The CropPro Plus crop processor is built as an integral part of the FX forage harvester, but it can be easily installed or removed. It's the same width as the cutterhead to reduce any chance of plugging. Choose the number of roll serrations that best matches your needs:

- 77 serrations, recommended for length of cut longer than ½ inch (standard configuration).
- 99 serrations recommended for normal working conditions with length of cut below ½ inch.





# Power to spare

## Engines produce up to 571 hp for major chopping power.

When it comes to chopping, there's no substitute for power. Choose a New Holland FX harvester and you get all the power you need, and more.

Turbocharged and intercooled FX engines deliver superior power-to-capacity performance while maximizing fuel efficiency. The FX60 is powered by a Caterpillar six-cylinder diesel that produces maximum power of 571 horsepower. The New Holland six-cylinder diesels that power the FX30 and FX40 produce maximum power of 386 hp and 460 hp, respectively. Torque backup for



*Six-cylinder, turbocharged and intercooled engines deliver a 25% torque rise between 1800 and 2100 rpm.*

all FX models is an impressive 25% between 2100 to 1800 rpm — the ideal forage harvester working range.

### Fast response

Heavy crops and tough terrain are no problem for an FX forage harvester. Electronically governed fuel injection systems on FX engines provide extra-fast response times — essential when you encounter thick clumps of crop. In fact, in order to get the thumbs-up from New Holland engineers, these engines had to meet tough performance parameters.



As a result, FX engine speed will not drop more than 80 rpm and the engine will recover within three seconds when faced with a load increase from 25 to 90 percent in one second while operating at 2100 rpm. That's the kind of response that keeps you moving in the toughest conditions.

### **Fuel savings**

FX engines meter fuel precisely, optimizing fuel consumption and emissions, and making operation extremely economical for you. This incredible fuel efficiency paired with the large 240-gallon fuel tank capacity allow you to work long days without fueling interruptions.

### **More control and speed**

The FX hydrostatic ground drive provides the fastest top transport speed on the market — 23 mph — as well as the precise control, flexibility and maneuverability needed for harvesting operations. Working speed is infinitely variable from 0 to 15 mph. A four-speed gearbox provides three overlapping working ranges to meet field applications.

### **Extra traction when you need it**

When a traction wheel slips due to slippery or muddy conditions, simply step on the differential lock pedal on the cab floor to restore full traction. This

feature is a New Holland exclusive that improves your productivity in difficult working conditions.

### **Durable construction and a smooth ride**

FX harvesters are constructed around a heavy-duty mainframe that gives the FX the strength and rigidity needed to work in the toughest terrain and handle the most difficult working conditions. The engine is mounted onto the rear of the mainframe and is located over the rear axle for comfortable road transport, good weight distribution and traction for both front and rear axles. The 240-gallon fuel tank is located underneath the chassis, providing a low center of gravity to maintain hillside stability.

### **Reliable drive system**

When you engage the FX drive from the cab, it divides into three sections. The first driveline is to the transfer gearbox to power the hydrostatic, hydraulic and steering pumps. Another direct shaft drives the blower and is shearbolt-protected. A third dedicated driveline to the cutterhead uses an eight-section drive belt from the main drive shaft. The cutterhead gearbox transfers power to both the cutterhead and the crop processor (if equipped). A hydrostatic pump-motor supplies power to the feedrolls and attachment. This ensures cutterhead and blower speed are not affected if the header or feedrolls encounter a blockage.



# More comfort, better visibility



## FX cab makes you feel at home and provides unobstructed views.

Take your position inside the FX cab and you can tell that it was designed with your comfort and productivity in mind. The deluxe air ride seat is fully adjustable for your comfort and the multi-function lever is built into the armrest so controls always come easily to hand.



*Excellent side visibility and a full-width rear window allow you to easily view the discharge spout when filling truck or trailer.*



*This lever allows you to control multiple functions with the touch of your thumb, including (A) feedroll and header drive, (B) spout deflector; rotation and dual-angle flipper, (C) header height, and (D) quick stop button. On the back side of the multifunction lever are controls for autopilot and automatic header height.*

### Control and information at your fingertips

The FX multi-function lever puts complete harvesting control at your fingertips, while the InfoView™ monitor gives you the information

you need at a glance. Convenient foot switches allow you to control spout height, independent brakes and the differential lock.

### All-around visibility

Expansive glass surrounds you in the FX cab, providing exceptional visibility. The curved front tinted windshield has no corner pillars to obstruct your view, and the forward-sloping floor enhances your view to the header. A rear window heating element is standard equipment so your visibility to the back isn't impaired during cold conditions. Two electronic mirrors with heating elements can be positioned remotely from the cab. Up to three additional static mirrors also assist you

when maneuvering. Eight powerful work lights help you maintain top productivity day or night.

### More comfort features

Additional standard cab features include a cushioned, fold-up training seat, a steering column that adjusts three ways for your comfort, and heat and air conditioning that keep you comfortable no matter what the outside temperature. An added bonus is the cooler compartment you'll find under the seat that keeps two twelve-ounce beverage cans cool and ready to enjoy. Only clean, filtered air enters the cab thanks to the cab air filter located behind the cab door. An additional in-cab filter cleans re-circulated air.



*The InfoView™ monitor provides constant feedback on harvesting functions, including ground speed, cutterhead and engine rpm and metal detection. The monitor also allows you to make on-the-go changes to length of cut and crop processing.*



*This electronic control panel to your right includes operating switches (A), including the metal detector, work lights, power reverser and four-wheel drive, as well as a row of indicator lights (B) that keep you informed at a glance. Controls for the Accucut™ sharpening system (C) are neatly grouped on one control panel.*

# High-volume headers

## Smooth-feeding features boost your productivity.

New Holland offers a comprehensive range of headers and attachments to match your needs, including three windrow pickups, three in-line corn heads and two row-independent corn heads.

### Quick attachment

No matter which head(s) you choose, attachment is simple and quick. A single latch on the left side of the FX allows you to attach heads from one side of the machine. The PTO drive to the header is also located on the left side and is driven directly from the header drive gearbox. A quick-release hydraulic coupler is located on the right side.

You engage the automatic header height control using the knob controls near the multifunction lever. The stubble height potentiometer maintains the height you set for harvesting corn. The ground pressure potentiometer allows the head to apply a constant pressure to the ground when harvesting grass crops.



### WINDROW PICKUPS

Model	Working Width	Overall Width
346 W	8'9"	9'8"
356 W	10'9"	12'
366 W	14'5"	15'8"



Select the pickup width you need from 10 to 15 feet — wide enough to harvest two grass windrows at once. Two optional, adjustable skids and gauge wheels (or optional rollers) allow the pickup to follow field contours for ground-hugging flotation and more complete crop pickup. Closely spaced, rubber-mounted curved tines flex to lift and gather crop more effectively. A full-width hydraulic wind-guard applies pressure to the crop mat to aid flow into the feedrolls, and raises automatically when you engage the optional Power Reverser™ mechanism. Full-width auger flighting and retractable tines keep crop flowing smoothly.

### IN-LINE CORN HEADS

Model	Number of Rows	Row Width
360N4	4	30"
360W5	5	38"
360N6	6	30"

New Holland in-line corn heads use long, wide-profile row dividers to guide corn rows into the machine. They are base-height adjustable and float to follow the contour of the land. Add Autopilot, the optional automatic

steering system, and two touch-sensitive arms constantly monitor the position of the corn entering the divider area. The sensors feed information to an electro-hydraulic valve that controls the steering mechanism. You over-ride the system by turning the steering wheel manually. If you harvest on slopes, you can use a central dial to allow the FX to harvest slightly off-center.

Two counter-rotating, serrated cutting discs for each row deliver a smooth, neat stem cut, even in weed-infested crops. One disc is spring-loaded to apply pressure onto the other disc, creating a self-sharpening effect. The floating auger uses deep, full-width



rolls. The New Holland HydroLoc™ drive system allows you to perfectly match the peripheral speeds of the feed auger on the header and the FX feedrolls to assure a quality silage chop.

#### ROW-INDEPENDENT CORN HEADS

Model	Number of Rows	Working Width	Transport Width
RI 450	6	14.75 feet	9.90 feet
RI 600	8	19.7 feet	9.90 feet

Unlike in-line heads that must travel in the direction of the rows, New Holland row-independent headers are able to harvest row-planted crops in any direction, allowing you to choose the best working direction based on the condition of the crop. In normal standing crop, you can achieve the best ground speed and driving comfort by following the row planted pattern, and that way you also have the ability to

utilize the optional Autopilot system. In wet weather conditions, or laying crop conditions, you can harvest in the direction that most effectively gathers the crop.



# The FX time advantage

## Convenient servicing is built-in to FX harvesters.

FX forage harvesters are designed to be serviced and repaired quickly. Engine guards lift up to provide quick access for fluid checks. The chopper body splits into several sections to provide easy access to components. And, long service intervals and grease banks reduce the time and cost of routine maintenance.



*The Autolube system allows you to deliver accurate levels of grease to necessary bearings with a push of a button in the cab. You select one of three greasing levels, then a large, three-quart reservoir behind the cab feeds the distribution blocks.*



*Engine guards open from the sides and rear, for plenty of light and open access for servicing and maintenance.*



*The oil cooler, air conditioning condenser, air-to-air intercooler and engine radiator slide out on the left side of the machine for easy access. Doors open wide for easy cleaning of the two rotary dust screens.*

# Specifications

MODEL	FX30	FX40	FX60
<b>ENGINE</b>			
Make	New Holland	New Holland	Caterpillar
Displacement, cu. in. (L)	640 (10.3)	787 (12.9)	894.1 (14.6L)
Configuration	6 cylinder	6 cylinder	6 cylinder
Power @ 1800 RPM, hp (kW)	386 (284)	460 (338)	571 (420)
Power @ 2100 RPM, hp (kW)	360 (265)	428 (315)	533 (392)
Torque back-up (from 2100-1800 rpm)	25%	25%	25%
Fuel capacity, U.S. gal. (L)	240 (908.5)	240 (908.5)	240 (908.5)
<b>FEEDING SYSTEM</b>			
Number of feedrolls	4	4	4
Width of housing, in. (mm)	29.5 (760)	29.5 (760)	29.5 (760)
Metal detector	Standard	Standard	Standard
Harvesting unit drive	2 speed	2 speed	2 speed
No. of length of cut changes, mm	5 - 25	6 - 30	6 - 30
<b>CUTTERHEAD</b>			
Type	Beveled reversible knives	Beveled reversible knives	Beveled reversible knives
Width, in. (mm)	30 (761)	30 (761)	30 (761)
Width-shearbar surface	32	32	32
Diameter, in. (mm)	24 (61)	24 (61)	24 (61)
Speed, rpm	950	1229	1229
No. of knives	12	8	8
<b>KNIFE SHARPENING</b>			
Reverse rotation	Yes	Yes	Yes
Automatic from cab	Standard	Standard	Standard
Reverse drive	Hydraulic motor	Hydraulic motor	Hydraulic motor
Reverse speed, rpm	800	800	800
<b>CROP PRO™ PLUS</b>			
Optional	Yes	Yes	Yes
Roll diameter, in. (mm)	7.8 (200)	7.8 (200)	7.8 (200)
Roll speed (upper), rpm	2,737	3,888	3,888
Roll speed (lower), rpm	2,624	3,049	3,049
Roll spacing, in. (mm)	½ to ¾ (2 to 20) 8 inches when open	½ to ¾ (2 to 20) 8 inches when open	½ to ¾ (2 to 20) 8 inches when open
Serrations per roll	77	77	77
Weight, lb. (kg)	954 (433)	954 (433)	954 (433)
Quick-Change	Yes (30 seconds)	Yes (30 seconds)	Yes (30 seconds)
<b>ROW-TRACK GUIDANCE</b>			
	Optional	Optional	Optional
<b>BLOWER</b>			
Diameter, in. (mm)	40.4 (1026)	40.4 (1026)	40.4 (1026)
Standard speed, rpm	738	738	738
Optional speed, rpm	818	818	818
Number of paddles	4	4	4
<b>SPOUT</b>			
Rotation, degrees	210	210	210
Dual Speed	Optional	Optional	Yes
Hydraulic height position	Yes	Yes	Yes
Double-cap deflection	Yes	Yes	Yes
Number of wear liners	2	2	2
<b>ELECTRICAL SYSTEM</b>			
Type	12 volt w/160 amp alternator	12 volt w/160 amp alternator	12 volt w/130 amp alternator
Batteries	2	2	2
<b>PROPELLING DRIVE TRANSMISSION</b>			
MAXIMUM GROUND SPEED, mph (km/h)	23 (40)	23 (40)	23 (40)
WEIGHT, lb. (kg)	25,088 (11380)	25,088 (11380)	25,088 (11380)

# Put the specialists at New Holland to work for you

New Holland and your local New Holland dealer are specialists in helping you make the best choices for productivity and profitability. It starts with innovative New Holland equipment and continues with expert service and support programs that are built around your needs.



From tractors to haytools to combines and more, you won't find a more comprehensive range of equipment than the New Holland brand ... or a business partner with a broader range of expertise than your New Holland dealer. Committed to your success, your dealer will work hand-in-hand with you to determine which New Holland equipment is right for your operation.

To keep you moving forward, your New Holland dealer will assist you with competitive-rate finance, lease and insurance plans available through New Holland Credit — customer-tailored



plans designed to maximize

cash flow and preserve working capital. Talk to your dealer, too, about the

purchasing convenience afforded by the New Holland Plan.



And, after the sale, turn to your dealer for factory-trained service and total parts support. Your New Holland dealer is ready to

answer all your questions, help in any decisions, and resolve problems — in the field or at the dealership. You wouldn't expect anything less from a specialist who understands the way you work.

See your New Holland dealer today. And talk to the specialists.



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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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