



# NEW HOLLAND NORTH AMERICA

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August 30, 1997

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## From the moon to your field: not such a giant leap

by Walter Pype, Chief Engineer, Research and Development, New Holland North America, Inc.

**N**ot so long ago, the word "robot" was the stuff of science fiction. Then lunar rovers explored the moon by itself. Factory robots routinely weld and assemble cars, trucks and farm machinery.



What's next? Robotic farming?

Actually, yes. In successful experiments last year, a New Holland self-propelled windrower became a field-going robot, cutting alfalfa by itself in a field with no driver on board. And it

was accomplished using technology that already existed for the most part — the same technology that allowed robots to walk around the moon.

New Holland was approached two years ago by researchers at the Robotics Institute and NASA (National Aeronautics and Space Administration) Robotics Engineering Consortium at Carnegie Mellon University, Pittsburgh, Penn. The research team there was ready to launch an autonomous field-going vehicle, and they needed a farm equipment partner.

We went into cooperation with the team so we could be the first to learn about the possibilities of field-going robotics for agriculture. We settled on modifying a New Holland Model 2550 self-propelled windrower. Why? Because cutting hay or field grains for later handling is the simplest task a field-going vehicle does. A good place to start. Robotic controls and sensors were added to start the machine, control the throttle, raise and lower the head, inspect its process and adjust itself—all without a human in the cab. The most complicated software writing involved giving the machine the intelligence to detect the uncut line of the crop and follow it, even in light stands. The windrower makes continuous decisions for itself as it travels the field, through good spots and bad.

Its "eyes" for detecting the crop are two cameras, one on either side of the cab. The windrower is programmed to stop if it detects anything other than crops in its path. During the initial field demonstrations last fall, an operator at a remote station was linked to the machine as a safety measure. But the robot windrower is equipped to be guided and driven entirely by the use of GPS (global positioning system).

Why are we doing this? What use is there for an unmanned windrower?

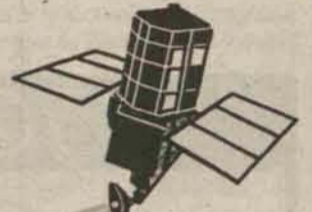
The first application for on-farm, commercial use will likely be a system that gives an operator an automatic pilot and an advanced form of cruise

control. The on-board computers would make decisions and drive the machine, helping the operator achieve more even results.

Down the line, a large alfalfa field could be cut by one manned machine with a couple of unmanned ones (with no need for cabs) trailing behind. Or, a robotic windrower could cut wheat while the grain farmer harvests previously-cut grain with a combine.

The opportunities for saving labor and increasing productivity are tremendous. As farms continue to get larger, we may be able to build bigger machines, but how long can an operator stay in the seat? How long can he or she drive? Robots can go day and night. They never get tired. Their use could protect human operators from the more hazardous conditions of farming. So they may have a practical place in our future.

New Holland is excited to be working with the consortium on the first field-going robots as part of our commitment to new technology that helps farmers be more productive. And the great news is that whatever we dare to dream is almost already here. ☺



## 25,000th Twin Rotor® combine rolls off line at New Holland Grand Island plant

**O**utfitted with a fresh coat of yellow paint and glistening black tires, the 25,000th New Holland Twin Rotor® combine rolled off the company's Grand Island, Neb., assembly line recently and enjoyed its moments of fame before heading off to 3,150 acres of corn and soybeans to show its true grit.

On hand to accept the keys to their latest purchase were Eugene Schmit and Sons of McLean, Neb. They had recently traded their TR™97 for a TR™98, not realizing their decision to trade would land them on an outdoor stage along side senior New Holland officials, including New Holland North America President Allen R. Rider.

"What a privilege this is," said son Dan Schmit speaking for the family, after learning their combine would become the 25,000th produced out of Nebraska by New Holland. "With so many good farmers in this part of the country, we feel excited about being the ones to take part in this significant event."

The Schmits' new combine displays a special insignia, labeling it as the 25,000th unit. A commemorative plaque was also presented to the family during the ceremony attended by most of the plant's employees.

No stranger to New Holland products, Eugene Schmit and sons, Dan, Joe and John, run their 3,150-acre diversified grain operation with two New Holland GENESIS™ tractors and a Versatile® tractor. Eugene and each son has his own farm,

although they share the use of their equipment.

The sons also share responsibility to purchase fertilizer, feed, and chemicals, a management tool that helps hold operation costs down. About 60 percent of their production is field corn, with the rest in soybeans. They also custom combine 300 acres in the fall.

Since 1992 when the Schmits first purchased a TR combine, they have traded for a new model each year, while also renting another from their New Holland dealer, Larry Dinkel, who co-owns Dinkel Implement Co. of Norfolk, Neb., with his brother, John.

"We needed a machine that would feed the material in going downhill and a machine that didn't let it out the back going uphill," said Eugene Schmit. "It's been a good thing for the family here. It gets our crop in on time and New Holland has backed everything we needed as far as the service."

Ed Boileau, plant manager for combines, served as master of ceremonies at the 25,000th TR celebration. Among those joining him on stage from New Holland were Steve Lee, plant manager for haytools; and two former plant managers, Art King and Doyle Hulme. Also attending the ceremony were Grand Island Mayor Ken Gnadt, Chamber of Commerce President Roger Nygaard and State Sen. Chris Peterson.

New Holland is one of the world's leaders in the engineering, manufacturing, marketing,

and distribution of agricultural and construction equipment. ☺

### TR™ BACKGROUND

The first Twin Rotor combine was completed by New Holland on Aug. 12, 1975. The significance of the Twin Rotor innovation in harvesting was compared by company officials to that of New Holland's first self-tying automatic hay baler in the 1940s. The TR70, the original model, answered farmers' needs for cleaner, less damaged grain and better overall field efficiency. After 22 years and more than 234,000 tons of iron and steel, the 25,00th TR continues to meet these basic farmer needs. During those 22 years, advanced technology and engineering have further improved the combines.

Among the changes to the original Twin Rotor combine include:

- Replacing straight raspbar rotors with spiral, segmented raspbar rotors that operate smoother, quieter, and in a higher capacity
- Expanded hydraulic from four to five manually operated valves to nine electro hydraulic valves
- Increased grainhead widths have changed from 22 feet to 30-36 feet
- Introduced Terrain Tracer™ lateral float header control
- Increased engine horsepower from 146 horsepower to 270 horsepower on the TR98.



MICHIGAN FARM BUREAU



A SUPPLEMENT TO MICHIGAN FARM NEWS



## New Holland introduces four new 4WD tractors

Four new Versatile® 82 Series tractors from New Holland are powered by a new Cummins diesel engines to meet U.S. emission regulations without sacrificing fuel efficiency or reliability. Horsepower has been increased as well, says New Holland product management.


The company says the three larger models feature engines with step-times fuel injection that automatically advances timing for starting and light load operation. This reduces emissions and improves both cold weather starting and idling characteristics. Fuel economy and long-term engine reliability are improved.

The new 82 Series tractors include the 260 HP Model 9282 with 8.3 liter engine; the 310 HP Model 9882. These tractors have ample torque rise with peak torque at low RPMs. That lets operators gear up and throttle back for fullest fuel efficiency without sacrificing the reserve torque needed to pull through touch spots, the company says.

New Hi-Flo™ hydraulics on 82 Series tractors offer ample flow for both tractor and implement hydraulic needs. Steering slow is used to supplement implement flow in high-demand situations to provide more flow at the remotes than any other 4WD trac-

tors. Large air seeders and other high-hydraulic-demand units are powered more efficiently with ample reserve power for quick end-of-field lift and turning. Steering is smoother and more responsive, according to New Holland because a separate steering priority circuit prevents implement hydraulic requirement from affecting steering hydraulic flow. Four remote hydraulic valves are standard. A convenient flow control knob is provided in the cab for one circuit. In-cab flow controls for the three additional circuit prevents implement hydraulic requirement from affecting steering hydraulic flow.

Four remote hydraulic valves are standard. A convenient flow control knob is provided in the cab for one circuit. In-cab flow controls for the three additional circuits are also available.

The new tractors are available with 12x4 Quadra-Sync™ transmissions that offer four synchronized sequential ratios in three ranges. Operators can select the next gear up or down within a range with a single lever. There are seven ratios in the critical three-to-eight MPH working range. A 12x2 power shift transmission is also available for the "9482" and "9682" tractors that provides clutchless, full-load shifting. 

## 70 SERIES GENESIS™



## THE NEW STANDARD

New Holland 70 Series GENESIS™ tractors are still the most advanced, productive tractor on the market. All four models are built for the way you want to work.

Model 8670 – 145 PTO hp  
Model 8770 – 160 PTO hp  
Model 8870 – 180 PTO hp  
Model 8970 – 210 PTO hp

**Tightest Turnaround** – the exclusive SuperSteer™ FWD axle lets you make a simple U-turn, even on 22- and 20-inch rows.

**Smoothest Powershift** – You've gotta feel the difference of the straight-line

shuttle and easy programmable upshift and downshift.

**The Most Power** – GENESIS™ engines produce up to 50% torque rise for maximum pulling power, and maximum fuel efficiency.

**Easiest Servicing** – From the flip-up hood to easy component removal, the GENESIS is designed for durability and easy maintenance.

**The Best Warranty** – 3-years, 3,000 hours, no deductible.

Stop in and test drive the tractors that set the standard.

## Contact your local Genesis™ dealer

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Portland

**GOTTA  
DRIVE  
IT**



NEW HOLLAND



NEW HOLLAND



## New Holland model 996 corn head is smooth, fast and durable

The new model 996 corn head from New Holland gives growers more corn in less time, thanks to its new-generation design and polyethylene construction.

"The unique low-profile point design allows the '996' to get under downed corn and pick it up more efficiently than competitive corn heads," says New Holland product management. "And the shielding flips up without tools for complete access, providing the easiest access to the row units of anybody in the industry."

Customer focus groups and several prototype trials run with customers helped New Holland designers create a more durable design that reduces overall maintenance and improves resale value, the company says.

The surface of the low-profile shields, fenders and points — all made from an innovative polyethylene material — is slippery, allowing for smooth, fast feedings and increased ground speeds. And because the polyethylene construction absorbs impact, ears don't bounce out of the corn head. The result is less ear loss and more capacity. Also, the "996" is more durable than previous models. The points, fenders and row unit covers are yellow polyethylene all the way through, so dings and damage don't show. They will never rust and never need painting, giving owners

fewer hassles and higher resale value.

Quick latches on the row unit shields, fender and points make transport and maintenance easy. And once the shielding is flipped up, convenient props hold the shields in position so the operator can work quickly and confidently. The fenders and row unit points also feature easy height adjustment, without tools.

The New Holland Model 996 features heavy-duty cast iron row unit gearboxes to drive and support the stalk rolls. Stalk rolls are heat-treated and straight-fluted for more aggressive feeding. The unique two-piece cantilevered design reduces replacement costs and improves serviceability. And the easy removal and installation mean it is no problem to change between standard stalk rolls and knife rolls.

Additional flexibility is provided by optional hydraulic deck plate adjustment for different stalk sizes, improving performance in varying crop conditions. Gear-case-driven row units provide added reliability and improved serviceability, while the oil-bath row unit drive provides long, dependable operation.

The "996" corn head is available in many row and spacing combinations for use with New Holland TR™ 88 and TR™ 98 Twin Rotor® combines, New Holland TX™ 66 and TX™ 68 combines and for mounting on the New Holland FX Series self-propelled forage harvesters. ☺



New Holland Model 996 corn head uses innovative polyethylene material on shields, fenders and points for a smooth, fast-feeding surface that never rusts or needs painting. Unique two-piece cantilevered design offers unmatched service access. The "996" is available in a range of row and spacing combinations for current Twin Rotor™ and TX™ combines and the FX series self-propelled forage harvesters.

## New Holland adds 96 hp FWD high-clearance tractor

The new model 8010 high-clearance New Holland tractor is powered by a 6-cylinder 456 cubic inch Genesis™ engine. Power has been increased to 96 PTO horsepower, says product manager Jerry Dieker. Drawbar ground clearance has been increased to 29 inches. Axles are adjustable from 72 to 84 inches.

The FWD model 8010 tractor's high clearance with increased power provides a dependable unit specially adapted for vegetable crop work where growing and harvesting operations have to go on in spite of wet or muddy conditions. A 12x3 constant mesh transmission with creeper gear, or a 16x4 Dual Power transmission offer design flexibility for a wide range of crops. Hydraulic flow of 9.3 GPM (17.4 GPM is optional) provides ample power for hydraulically driven equipment. Two remotes are standard.

Dieker points out this economical new tractor has been engineered to provide reliable power with simple controls and easy servicing that are especially important in commercial vegetable

production where work crew assignments require frequent operator changes. ☺



The New Holland model 8010 high-clearance tractor is powered by a 6-cylinder 96 hp Genesis™ diesel. Available as 2WD and 4WD, the new tractor is available with 16x4 dual power or 12x3 constant mesh transmission for a wide range of crop and field conditions.

## VERSATILE 82 SERIES



### MORE HORSES

Why do you buy an articulated 4WD tractor? Raw pulling power, right? You get plenty of it with an 82 Series Versatile® 4WD from New Holland. Four models from 250 to a staggering 425 horsepower.

Model 9282	8.3 L	250 hp
Model 9482	11 L	310 hp
Model 9682	14 L	360 hp
Model 9882	14 L	425 hp

For a tractor with more horses, choose a New Holland 82 Series. Stop in for details.

- Bates Ford Tractor, Inc. Coldwater
- Lloyd Miller & Sons, Inc. Fowlerville
- Bronsink Equipment Co. Schoolcraft

## FORAGE EXPRESS



## THE BETTER CROP CHOPPER

New Holland FX25 and FX45 self-propelled forage harvesters are becoming known as the "Forage Express":

- 320- and 450-hp engine
- 30-inch wide, 12-knife cutterheads
- Metalert® III for metal detection
- 210-gallon fuel tanks for full-day operation
- Knife sharpener and auto shearbar adjustment from cab
- Convenient, comfortable, high-visibility cab

If you haven't seen these harvesters, you should — soon. Stop in today!

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NEW HOLLAND



### New Holland advantages



**New Holland discbine mower/conditioner Model 1431**



**New Holland roll-belt round baler Model 644**



**New Holland windrow inverter Model 166**

### New Holland discbine mower/conditioner Model 1431

#### Features

Model 1431 has a 13' cutting width and 10 discs with 20 knives. It has standard hydraulic cutting angle and height control from 2 to 10 degrees. The windrow is adjustable from 3' to 8'.

#### Advantages

The 1431 has adjustable flotation springs, a hydraulic header tilt and adjustable roll gap. Roll pressure is independent of flotation and allows for automatic plug clearing. The conditioning system includes 102-inch chevron-designed, intermeshing rubber rolls. Each disc module is an individually sealed gear case, which makes repair easier and less expensive. The 1431 has a center pivot-tongue which swings 38.5 degrees left and right.

#### Cost

\$23,950

### New Holland roll-belt round baler Model 644

#### Features

Model 644 makes bales up to 4' wide, 5' in diameter and 1,000 pounds. It has a pickup width of 72.6" with six tine bars and 108 tines. The baler comes with either Auto-Wrap which automatically and evenly spaces twine for 10, 14, 18 or 23 wraps per bale or Bale Command Plus which evenly fills the bale chamber through an in-cab monitor and automatically starts the dual twine-tie mechanism.

#### Advantages

The New Holland Roll-Belt design uses a combination of six rolls and six 7-inch nylon/polyester belts which they claim provide 91 percent contact across the bale, reducing losses. A hand-controlled valve allows the hydraulic cylinder tension to be easily adjusted, allowing for bale density control.

#### Cost

\$27,000

### New Holland windrow inverter Model 166

#### Features

The inverter offsets the windrow by 3'4" to 6'8" with the base unit or by 11' with the extension. The 65-inch pickup width allows for operation in large or small windrows. The discharge chute is adjustable, allowing for a narrow transport width of less than 8 feet. A ground drive system powers the pickup and conveyor speeds. A hydraulic drive is optional.

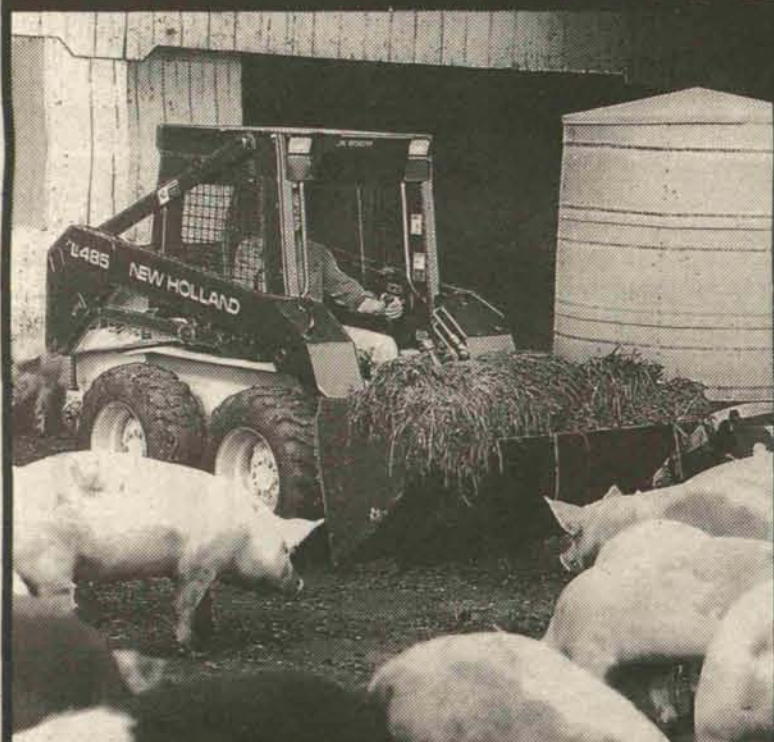
#### Advantages

Windrows are lifted and turned without roughing up the hay, keeping the protein-rich leaves intact. The conveyor belt's V-belt section matches the grooves in the drive rollers, preventing belt misalignment. An optional cross conveyor extension can place two 12', 14' or 16'-spaced windrows together.

#### Cost

\$6,000

## NEW HOLLAND SUPER BOOM™



## THE PERFECT SIZE

The Model Lx485 New Holland Super Boom™ skid-steer loader is the perfect size for tough jobs around the farm. It has a 36-horsepower diesel engine and a 1,350-lb. operating load.

The "Lx485" also has all the features you've come to expect from the line of Super Boom loaders, such as the tough boom and frame, the Pick Up 'n Go™ universal attachment system and the easy-access service door and flip-up cab and boom. It also has the best visibility, stability, speed, boom height and dump reach in the industry. So stop by today and try the "Lx485" on for size.



NEW HOLLAND



## WHAT MAKES YOU SO TOUGH?

With the New Holland Model Lx665 Super Boom™ skid-steer loader, the answer is simple: everything. The "Lx665" is designed for the best in durability, reliability and performance. The "Lx665" has 50 turbocharged

horses and a 1,700 pound operating load. And, with the Pick Up 'n Go™ universal attachment system, you can really get hooked on this machine.

So stop in today to see what makes the "Lx665" so tough.

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Litchfield



## New Holland introduces model 1465 haybine mower-conditioner

The new Model 1465 Haybine® mower-conditioner from New Holland features a new header design with 9'3" cutterbar; 5-bat reel for more uniform crop flow; 102" chevron-design conditioner rolls for fast-drying; and wide-swath or fully adjustable windrow forming. An enclosed wobble gearbox sickle drive provides smooth, dependable cutting. Sickle knife assemblies are bolted for simpler, quicker replacement.

The new Haybine features a light-weight header for improved flotation. With conditioner rolls mounted in the frame, the cutterbar and reel are independent and respond quickly to uneven fields.

Conditioner rolls are driven by straight-spline,

telescoping shafts. The "1465" reel drive idler is spring-loaded to protect against overloads. Equal-angle PTO reduces noise and vibration. A bumper on the tongue helps prevent over-90-degree right turns and PTO bottoming out. Mechanical tongue shift and hydraulic tongue shift are available.

Conditioner roll pressure is adjustable without tools. Torsion bar roll pressure system maintains near constant pressure in varying crop conditions, but releases pressure to pass slugs without plugging.

The new "1465" provides dependable, superior cutting, conditioning and windrow forming in heavy or light grass, legume or cane crops in varying crop conditions. ☺



The New Holland Model 1465 Haybine® mower-conditioner has a 9'3" cutterbar with 5-bat reel and 102" chevron-design conditioner for superior cutting and wide swath or windrow forming in light or heavy crops.

## New Holland round baler is special for silage

The new New Holland Model 644 Silage Special round baler is a superior baler for dry crops, but has unique features that make it even better for material baled between 50 and 65 percent; moisture for silage. Bales are formed by a combination of rolls and belts. The front rolls pivot to provide a large core-forming area. Bale weight is largely supported by the floor roll as the bale forms.

Sealed in plastic, the 1,300-pound 4x5-foot bales preserve quality crops as palatable, very digestible, high-protein silage, says New Holland product management. A new, optional Bale-Slice system uses retractable knives to slice the bale after the core is formed. The knives retract just before wrapping begins. Slicing the crop allows firm packing and easier feeding. The internal slicing action speeds ration making when bales are processed in the new TMR mixer-feeders designed for round hay and silage bales.

New Holland engineers designed the 644 Silage Special for best performance in the widest range of conditions, the company says. The machine has a two-position stuffer to accommodate both drier and high-moisture crops. Stuffer tines are steel-welded teeth for smooth feeding action in tough, heavy crops. A wide pickup makes it easier to fill bales end to end for im-

proved shape and density. The pickup tines are closely spaced for best performance picking up from either unraked, wide mower-conditioner swaths or windrows. The sledge follower roll and tailgate nose roll have welded steel loops and heavy-duty, sharpened scrapers to avoid gummy crop residue buildup. Unlike fixed-chamber balers, the Model 644 Silage Special variable chamber bale forming lets operators choose any bale diameter. Wide tires and a reinforced axle are designed to carry the additional weight of heavy silage bales.

The 644 Silage Special is available with Auto-Wrap, twine or Pastnet, wrap with plastic netting.

Dairymen in high rainfall areas are switching to round bale silage to avoid extended field exposure and rain damage to quality first cutting forage crops. The system also works for grazing operations that have unneeded crop in peak spring growth periods. It's attractive for late cutting legumes that are hard to cure as hay. It's also suited to storing spring or autumn-harvested cereal forages and any surplus summer forage, such as hybrid sudan-sorghum or soybean and grain sorghum mixtures. Producers have more management flexibility because they can make any number of bales. The system is mechanized all the way to the feed bunk. ☺



## New Holland TR combines get performance improvements

New Holland announces performance-enhancing changes in its Twin Rotor® combine line and redesignates the units as the TR™ 88 and TR™ 98.

The TR 98 gets a horsepower boost to 270 hp and the 7.5 liter engine in both models is now air-to-air intercooled for improved efficiency and reduced emissions. Radiator and fan size also has been increased on both units. The TR 88 engine is 200 hp. Grain tank capacity is 190 bushels and 240 bushels respectively for the TR 88 and TR 98.

New Holland, which introduced the first commercially successful rotary combines in 1975, says Total Harvesting Capacity — the ability to put more grain in the tank in less time — places the Twin Rotor combines above any other brand. Rotary threshing means less grain damage, too, New Holland says.

Some cab controls have been changed or relocated in the new combines adding to operator convenience and overall productivity. Easy-to-use electrical switches have replaces levers to engage

the thresher, header and unloading systems. An air ride seat providing superior support and comfort for long hours of operation is now standard as is a large, more comfortable buddy seat.

Proven productivity-boosting features continue to be standard. The header/feeder reverser uses hydraulics to slowly move the header and feeder backward and forward to remove the worst slugs. A hardy rocker switch controls the reverser. Choose from a mechanical or electronic stone trap to protect the feeder and threshing mechanism.

Terrain Tracer™ lateral float header with automatic height control is available to compensate for rough spots in the field and keep your header out of the dirt but in the grain.

As before, six versions of the two combines are available. The TR 98 can be equipped as a Small Grain, Corn and soybean, Rice and Soybean or Universal unit. The TR 88 comes in Small Grain or Corn and soybean configurations. A new feature is the standard high-speed rotor drive on the TR 98 Universal model with two-speed rotor drive. ☺

## EXTRA, EXTRA



## UNMATCHED CUTTING PERFORMANCE

The New Holland "1475" Haybine® mower-conditioner, equipped with the all-new 2300 Series header, provides extra-wide cutting performance. You just can't beat the capacity of this pivot-tongue machine. The 18-foot header delivers 12% more capacity than competitive machines and even more than competitive self-propelled windrowers. Add the fastest knife speed available, and an exclusive floating auger that swallows the harvest crops, and you're in for an extra-productive day.

Come in and see the "1475" Haybine® mower-conditioner today.

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## Win one year's use of a New Holland Genesis™ tractor

### Enter your idea in Farm Bureau's Idea Exchange and you may be a winner

The American Farm Bureau Farmer Idea Exchange is a long-running program to surface ideas developed by farmers and showcase them throughout the country.

"Farmers are the world's best innovators," explained Michigan Farm Bureau's Organizational Development Coordinator Rob Anderson. "The Idea Exchange is meant to recognize the creativeness farmers have put to good use in their farming operations."

There are 14 categories in which entries may be submitted, including: soil quality, livestock, crops, management systems, input efficiency, equipment, energy, marketing, safety and handicap helpers, farm shop ideas, water management, wildlife, farm buildings and rotational grazing.

Farm Bureau would like to hear what you have to share and give you a chance to win! If you have an innovative idea in any of these categories, contact your county secretary for an entry blank or Anderson at (800) 292-2680, ext. 3232. When you have completed the appropriate entry form, send it to Michigan Farm Bureau by Sept. 15.



Gratiot County Farm Bureau member Denis Netzley earned a trip to the American Farm Bureau Federation annual meeting in Nashville, Tenn., because of his award-winning idea called the "Remote Sprayer Switch."

## New Holland three-tie heavy-duty baler offers two bale sizes

The new Model 585 New Holland three-tie square baler is designed for custom operators, commercial hay producers and large-acreage livestock operations. It is available with either 16 x 22" or 15 x 22" bale chamber cross section. The new heavy-duty baler features an in-line pickup and feeder design to save more leaves in large windrows.

The 92-inch "585" pickup is the widest in the industry, notes New Holland Product Manager Bob Hatz. He points out this wide Super-Sweep pickup with closely spaced tines gathers uneven or large double windrows and unraked swaths with less loss and allows baling at higher ground speeds. The long bale chamber with four-way bale tension forms high-density, uniform bales that are sized

right for automatic bale wagon handling and shipment in commercial hay marketing.

The new baler is powered by a Deutz air-cooled diesel engine for independent power to allow high-capacity baling no matter what towing vehicle is used.

The new baler also features a swing tongue to allow either in-line or offset operation. A self-contained hydraulic system provides power for finder-tip tongue shift, pickup lift and bale density control from the operator's seat. The controls and engine monitor include warning lights for low engine oil pressure, engine temperature and alternator function, engine RPM and bale density in addition to engine on/off switch. Work lights allow nighttime operation.



The new three-tie New Holland Model 585 baler is available in either 16x22" or 15x22" bale chamber size. Wide pickup and in-line and feeder design save more leaves from large windrows. Swing-tongue design allows offset or in-line operation. Independent power allows high-capacity baling no matter what towing vehicle is used.

## NEW HOLLAND 60 SERIES GEMINI™



## STEP UP TO THE POWER

New Holland 60 Series GEMINI™ tractors are innovative and practical.

- 7.5 liter engines offer tremendous lugging ability and up to 42% PTO torque rise.
- Exclusive 18x6" Range Command™ transmission offers six powershift gears in three ranges, all at the push of a button. Or, choose the new 23x12 Dual Command™ synchromesh transmission.
- Advanced cab features two doors, lots of legroom, easy-to-reach controls and exceptional visibility front to rear.
- Spacious flat-deck platforms offer foldable ROPS, large grabrails and left/right entry.
- Exclusive flip-up hood allows total access to battery and filters.

Power. Performance. Comfort. Convenience. Take a look at the new 60 Series tractor.

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NEW HOLLAND



## New Holland introduces new Boomer 25-34hp compact tractors

The new 25- and 30-series Boomer™ compact tractors from New Holland share the styling, easy serviceability, and quality construction of the larger New Holland GENESIS™ tractors. They are manufactured in a new factory at Dublin, Georgia, which was built specifically to manufacture compact tractors.

On farms the Boomers are maneuverable choretime machines with front-end loaders and blades. They have ample power and hydraulics to handle sicklebar and rotary mowers, side-delivery rakes, windrow inverters, trailers and snow blowers. Their compact size lets them mow yards, too.

The Boomers offer fingertip controls, high-capacity live hydraulics, unmatched serviceability and tight-turn SuperSteer™ FWD front axles. All are powered by 3-cylinder diesels, feature hydrostatic power steering and have wet-disc brakes.

The 25 (engine) hp Model 1530 is available with cruise control hydrostatic or 9x3 gear drive

transmission, 2WD and FWD with SuperSteer™ front axle. Like the Model 1630, the "1530" has a swivel seat to view backhoe or other rear implement operations.

The Model 1630 is powered by a 27.3 hp engine with similar drive options, SuperSteer FWD plus cruise control on hydrostatic drive units. Like the "1530", it offers a 2000 RPM mid-point PTO in addition to the rear 540 live PTO, deluxe headlights for wrap-around lighting and optional deluxe 3-point hitch with flexible link ends for easy implement attachment.

The new Model 1725 is powered by a 29 hp diesel and is available as 2WD and FWD with 9x3 gear transmission.

The Model 1925 is powered by a 34 hp diesel and is available with hydrostatic with live PTO or 9x3 gear-drive transmission, 540 PTO, 3-point hitch and FWD.

Factory installed fixed or folding ROPS are available on all Boomer tractors. ☺



New Holland 15- and 30-series Boomer™ tractors share low profile styling, flip up hoods for easy service access, and hydrostatic power steering. Optional Super Steer™ front axles for tight turn maneuverability.

## New Holland wins four awards for engineering innovations

New Holland North America captured four of the prestigious Agricultural Engineering 50 (AE) Company Recognition Awards for innovative products and systems for 1997. The awards are given to the top 50 innovations for the year by ASAE – the society for engineering in agricultural, food and biological systems.

As presented at the ASAE annual meeting in Minneapolis, Minn., on Aug. 12, 1997, and reported in *Resource* magazine, the winning innovative designs from the New Holland engineering teams are:

- The new 25- and 30-series Boomer™ compact tractors
- The New Holland 585 Three-Tie Baler
- The New Holland 996 Corn Head
- The New Holland 1431 Discbine® Disc Mower-Conditioner

The New Holland Boomer™ compact tractors are a new line of three-cylinder, diesel-powered tractors built to provide large-tractor toughness and operator convenience for a variety of jobs in a sleek, ergonomic design. Model 1530, with its 25 gross engine hp, and Model 1630, with a 27.3 gross engine hp, provide deluxe features. The companion higher-horsepower Models 1725, with 29 gross engine hp, and 1925, with 34 gross engine hp, provide the same rugged reliability, serviceability and convenience in a lower-cost feature package.

Boomer™ options include a 2WD front axle or a 4WD front axle with standard steer or SuperSteer™; gear or hydrostatic transmission; power steering; and three choices of tire type. A number

of attachments enhance the tractor, using the tractor's high-capacity live hydraulics with mid-mounted ports.

The New Holland Model 585 Three-Tie Baler will process and package forage crops and various crop residues into a marketable bale. The 585 is engine driven and features a self-contained hydraulic system that controls the tongue swing, pickup lift and bale density system. This allows the operator to use various tow vehicles without adding auxiliary hydraulics. The 585 features the widest pickup in the industry, which feeds into an in-line feeder system that saves more leaves while making solid, uniform bales in all crop conditions.

The new Model 996 Corn Head is designed to give operators more corn in less time when used on the New Holland TR™ 98 Twin Rotor® combines, TX™ 66 and 68 combines, or the New Holland FX Series self-propelled forage harvesters. The new-generation design and polyethylene also eliminates rust and any need for repainting. A unique two-piece cantilevered stalk roll design is implemented in heat-treated, straight-fluted component that requires only one bolt to install or remove. The 996 is available in 4-, 5-, 6-, 8- and 12-row models in various row spacing.

The Model 1431 Discbine® Disc Mower-Conditioner is a highly maneuverable machine. The center pivot tongue swings 38.5° to the left and right from a center position to give maneuverability and performance from either side of the tractor. This machine uses 10 modular discs with a 3.9m (13 ft.) cutting width and has 2.6 (102 in.) intermeshing rolls. ☺

## New Holland dedicates new tractor plant in Dublin, Georgia

New Holland North America, Inc. dedicated its newest tractor plant in late June with a ceremony at the New Holland Dublin Manufacturing Center. Beginning this fall, the plant will assemble and ship the new line of compact tractors being launched by New Holland.

The new state-of-the-art facility has created 40 new jobs in the community as it gears up for production of the compact tractors in the 25 horsepower to 34 horsepower range initially. Another 30 assemblers will be hired in 1997 as the 38-to-42 horsepower models are added to the line. The new center brings to five the total New Holland plants in North America.

New Holland invested more than \$11 million to bring its compact tractor operations to Dublin. The company was attracted to the area for many reasons, according to Tom Kennedy, chief operating officer of New Holland North America. First of all, he said, the manufacturing center is within about a day's drive of 25 percent of the customers for the new 30 Series compact tractor, which is a popular model for the smaller, diversified farms of the Southeast. Secondly, Dublin is accessible to ports, airports, railways and highways as well as area suppliers that are crucial for transport of parts and finished tractors, which will roll off the line fully assembled and ready to ship by truck directly to New Holland dealerships.

"And we were most impressed with the commitment of the community to do everything possible to secure the project, including forming the Laurens-Treutlen Joint Development Authority to offer an increased Jobs Tax Credit," Kennedy said.

The manufacturing center has been fitted out in the speculative, 60,000 square-foot building built by the Dublin-Laurens County Development Authority in 1994. It includes 52,000 square feet of assembly space, fully heated and air-conditioned with a computer-controlled, ductless system, and 8,000 square feet of office space, expandable to 16,000 square feet, said Allen Rider, vice president, Operations at New Holland.

"The goal of the Dublin plant is to quickly respond to our customers' requirements while minimizing inventory and operating costs," Rider said. "With the technology we have and the good people working at this plant, nothing stands in the way of achieving and sustaining this goal."

The 30 Series compact diesel tractor, with an all-new design based on extensive customer research, will include such features and options as New Holland's exclusive SuperSteer™ front axle, sloped front hood, underhood muffler design, cruise control and a wide variety of attachments. It is intended to be a versatile, reliable tractor for a variety of uses by farmers, horse owners, landscapers, contractors, nurseries and municipalities.

New Holland North America, Inc., headquartered in New Holland, PA, is part of the worldwide New Holland Group, the world's largest producer of agricultural tractors and hay and forage equipment. The company also designs, manufactures and sells combines and other harvesting equipment as well as earthmoving and light industrial equipment. New Holland, with 19,000 employees around the world, had revenues of \$5 billion in 1995. ☺

New Holland 35 Series tractors will make your life easier. These 56-to 86-PTO hp tractors are hardworking, dependable and easy to operate.

Financing Options Available

New Holland Super Boom™ skid-steer loaders are the toughest in the business.

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NEW HOLLAND

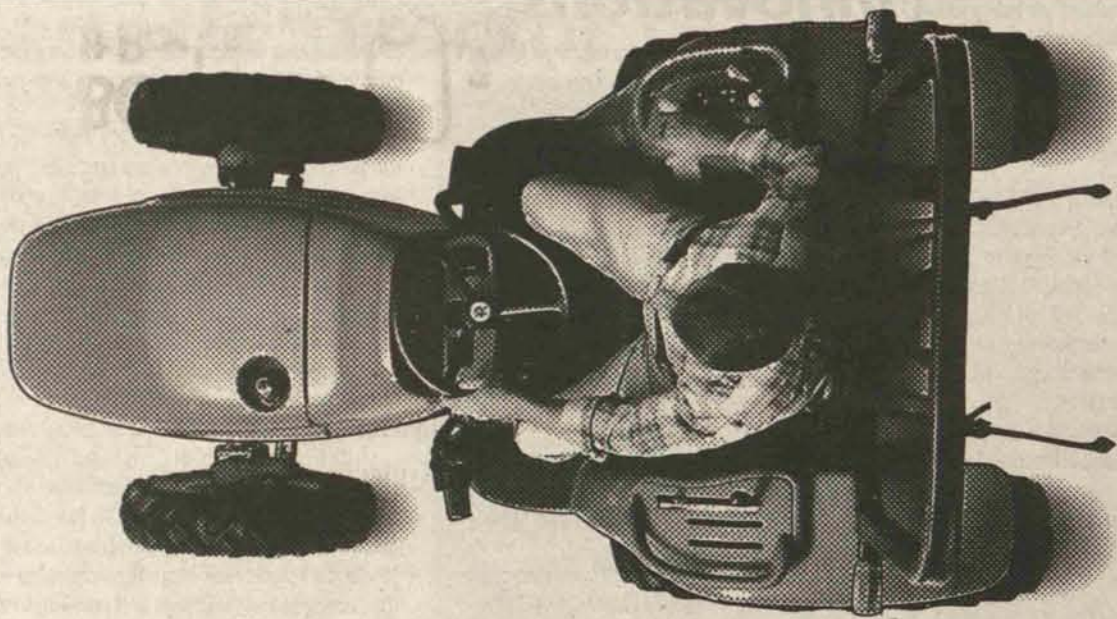
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- Steering wheel both tilts and telescopes
- Supersteer™ FWD axle gives greater maneuverability, tighter turnarounds.

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NEW HOLLAND

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