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

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

Not 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 windower 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 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 2750 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 thruster, raise and lower the head, inspect process and adjust itself without a human in the cab. The most complicated software writing involved giving the machine the intelligence to detect the exit 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 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 harvested previously-cut grain with a container.

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 provide a viable solution for the 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.

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

Outfitted 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 moment of fame before heading off to its 3,150-acre corn and soybean show to share 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 about 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. 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 500 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 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-propelled 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 254,000 tons of iron and steel, the 25,000 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 rasp bar rotors with spiral, segmented rasp bar rotors that operate smoother, quieter, and in a higher capacity
- Expanded hydraulic from four to five manually operated valves to nine electric hydraulic valves
- Increased grainhead widths have changed from 22 feet to 30-36 feet
- Introduced "Trac"™ lateral flow header controls
- Increased engine horsepower from 146 horsepower to 270 horsepower on the TR89. 
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-stair 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 tough 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 tractors. 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 circuits prevent 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 12x2 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.

The new tractoors 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.

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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

Ginop Sales, Inc.
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Hillsdale

Ellens Equipment, Inc.
McBain

Bronsink Equipment Co.
Schoolcraft

Willards Equipment Co., Inc.
West Branch

Hengesbach Tractor Sales, Inc.
Portland
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 rings 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 straightened 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 relubrication 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 TX™ 96 and TX™ 98 Twin Rotor™ combines, New Holland TX™ 65 and TX™ 68 combines and for mounting on the New Holland 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 FTO 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 creep 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 crew assignments require frequent operator changes.

Forage Express

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

• 30-inch wide, 12-knife cutterheads
• 320- and 450-hp engine
• Knife sharpener and auto shearbar adjustment
• 210-gallon fuel tanks for full-day operation
• Metal detector 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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If you haven’t seen these harvesters, you should — soon. Stop in today!

Barnes Equipment Co., Inc.

NEW HOLLAND
New Holland advantages

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 window is adjustable from 3' to 6'.

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 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 pick-up 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

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.

CONTACT YOUR LOCAL DEALER

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Purdy Ford Tractor Sales, Inc.
Hillsdale

Grandville Tractor & Equipment Co., Inc.
Grandville

Wells Equipment Sales, Inc.
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 93" cutterbar, 5-bat reel for more uniform crop flow, 102" chevron-design conditioner rolls for faster drying, and wide swath or fully adjustable window 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-line, 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 bowing out. Mechanical tongue shift and hydraulic tongue shift are available.

Conditioner roll pressure is adjustable without tools. Tension 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, super fast cutting, conditioning and window forming in heavy or light grass, legumes or cane crops in varying crop conditions.

New Holland round baler is special for silage

The new New Holland Model 644 Slage 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 larger core-forming area. Bale weight is largely supported by the floor roll as the bale forms.

Sealed in plastic, the 1,300-pound 645-foot bale preserves quality as palatable, very digestible, high-protein silage, says New Holland product management. A new, optional Baler-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 Slage Special for best performance in the widest range of conditions, the company says. The machine has a two-position roller to accommodate both drier and high-moisture crops. Stuffer knives 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 improved shape and density. The pickup teeth are closely spaced for best performance picking up either unraked, wide mower-conditioner swaths or windrows. The sledger follow roller and tagline nose roller have welded steel loops and heavy-duty sharpened scrapers to avoid gummy crop residue buildup. Unlike fixed-chamber balers, the Model 644 Slage 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 Slage Special is available with Auto-Wrap, twin or Fastow wrap plastic netting.

Dairymen in high rainfall areas are switching to round bale silage to avoid extended field exposure and rain damage to quality final 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 98 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 replaced levers to engage the threshold, 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.

Proves productivity-boosting features continue to be standard. The header/feeder reverter uses hydraulic to slowly move the header and feeder backward and forward to remove the worst slugs. A hardy rocker switch controls the reverter. Choose from a mechanical or electronic stone trap to protect the header 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.
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 creativity 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 help, 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) 392-2580, ext. 3325. 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 operation, 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 91-inch “391” 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 unrolled 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 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.

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 23 x12 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.

New Holland introduces new Boomer 25-34hp compact tractors

The new 25- and 30-series Boomer™ compact tractors from New Holland share the styling, the capacity, and the tight-turn maneuverability of the larger New Holland GENESIS™ and tight-turn SuperSteer™ tractors. They are manufactured in a new facility at Dublin, Georgia, which was built specifically to manufacture compact tractors.

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

The Boomers offer fingertip controls, high-capacity live hydraulics, unmatchable serviceability and tight-turn SuperSteer™ 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 1902 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 wins four awards for engineering innovations

New Holland North America captured four of the prestigious Agricultural Engineering 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 American Society of Agricultural and Biological Engineers.

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 985 Three-Tie Baler
• The New Holland 996 Corn Head
• The New Holland 1431 Discharge™ 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 24 gross engine hp, provide 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 985 Three Tie Baler will process and package forage crops and various crop residues as well as tarp hay. The 985’s engine drives 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 985 features the wide-pickup system 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 precise plant spacing and crop width on the New Holland TR™ and 66 and 68 combines, or the New Holland FX Series self-propelled forage harvesters. The new-generation design and polyethylene also eliminates rust and meets requirements for recycling. A unique two-piece cantilevered stalk roll design is implemented in heat-treated, straight-fluted components that require 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 Discharge™ 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 3.9m (15 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 this year.

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- to 34 horsepower range initially. Another 50 assemblies 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 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 assembly 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, hood deflector, dual steering, 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.
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