

New Holland Bidirectional™ Tractor 105 PTO hp

TV140



NEW HOLLAND



Introducing the world's most versatile tractor

The productivity of the TV140 is limited only by your imagination.

Without question, the New Holland TV140 Bidirectional™ tractor is the most productive and versatile 105-PTO horsepower* tractor you can buy. The Bidirectional lets you mount and power implements on either end to get the best combination of visibility, traction and weight balance. You can push and pull implements to finish one job in half the time. The unique Turnabout™ console allows the seat, steering wheel, dashboard and controls to pivot 180 degrees as a unit, so you can face your work. No matter which direction you travel, you get an infinite selection of speeds thanks to the hydrostatic drive system. You're as productive going cab-end forward as you are going engine-end forward.

There's more. The Bidirectional features four equal-size tires and full-time four-wheel-drive for incredible

traction in wet or slippery conditions. Articulated steering allows you to turn sharper, respond faster, and maneuver in tight places. And, the 6-cylinder New Holland turbocharged engine has enough lugging power for the toughest field work.

Read on and learn more about the versatility of the TV140. Then imagine the many jobs the Bidirectional can handle to improve your productivity. Your New Holland dealer is eager to show you the Bidirectional in person. It's a test drive you won't forget.

* Factory observed. Certain options may affect maximum PTO horsepower.





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This tractor is far from ordinary

Unique features make the TV140 Bidirectional™ more productive.

The New Holland TV140 is definitely not your typical tractor. It does everything you expect of a tractor ... and much, much more. Here's a closer look at some of the features that make the Bidirectional™ tractor extraordinary.



You get double-duty with the Bidirectional™. PTOs, three-point hitches, and drawbars at both ends let you push and pull implements at the same time, doubling your productivity.





Articulated steering lets you make sharp turns and maneuver in tight areas a typical tractor can't. If one end of the tractor fits, the other end will, too.



True four-wheel drive with four equal-size tires provides superior traction in wet, icy or muddy conditions.



All-day comfort and control

Outstanding visibility and easy-to-reach controls make work a pleasure.

The work environment in the Bidirectional™ tractor is like no other. New Holland engineered unique features into this roomy control center for your comfort and convenience.

An outstanding view in any direction

When you step into the Bidirectional cab, you can't help noticing all the glass—

Turnabout™ console provides the ultimate in control

The Bidirectional's Turnabout™ console rotates to let you face the direction that's best for the job. Just move the seat toward the steering wheel and lift the console rotation lever. The entire operator area—air ride seat, steering wheel, gauges and controls—rotates 210 degrees. All hand controls are within



61 square feet to be exact. More than any other tractor in this class. Visibility is excellent no matter which direction you face. There's no stretching or straining to see your work. You'll be especially impressed by the view facing the "cab end." Operating a loader or other implement, your view is exceptional. No other tractor can match it.



You see straight down to the drawbar.

natural, easy reach, and remain that way regardless of which direction you're facing.

Whether the console is facing the cab end or the engine end, it can be offset 15 degrees as a single unit for added comfort when looking back. And, since the cab has two doors, you can enter or exit the cab from either side, depending on the position of the Turnabout console.

The large, roomy cab features two doors, an adjustable air-ride seat, and plenty of glass for excellent all-around visibility.



Monitor your status
at a glance





Four standard work lights on both ends turn night into day.

Electronic Instrument Cluster keeps you informed and on the go.

The TV140 features sophisticated instrumentation to keep you informed at a glance. The state-of-the-art electronic instrument cluster (EIC) is standard equipment and is easy to use and adapt to your applications.

The control pad at lower right allows you to select which functions to view on the central electronic monitor—engine rpm, ground speed, PTO speed, battery voltage or service intervals. The electronic monitor also displays fuel level, coolant temperature, transmission range and the position of the three-point hitch(es). Using the control pad, you may also view engine hours, trip hours, service intervals, elapsed time and the PTO speed selected. All the information you need is at your fingertips.

The warning light bar around the top of the dashboard includes indicators for all critical functions. For added protection, an automatic shut-down function stops the tractor if a critical malfunction occurs.



Too hot or cold? The overhead heat and air conditioning controls are easy to reach.

Turn night into day

Wipers and work lights on both windshields help you see what you're doing in all weather conditions. If you put in hours after dark, the four work lights on the cab end and four work lights on the engine end provide excellent visibility.



New Holland engine delivers reliable power

You'll enjoy proven lugging power and fuel efficiency.

Tough field conditions are no problem for the TV140. The 105* PTO hp, six-cylinder, turbocharged New Holland engine delivers all the power you need and then some. This large-displacement engine provides up to 60% PTO torque reserve for powering a wide variety of attachments. Maximum power is produced at a rated speed of 1800 rpm. Peak torque occurs at 1400 to 1800 rpm, so you get incredible lugging ability over a wide range of engine speeds.

Proven reliability

New Holland engines have a long tradition of durability, with the proven technology of the "parent bore" block. This design provides many advantages over wet sleeve engines to provide years of dependable service. Add to this a large displacement of 456 cubic inches (7.5 L). Larger displacement engines don't have to work as hard to generate rated horsepower, so they simply perform better and last longer.

* Factory observed. Certain options may affect maximum PTO horsepower.



Large intake ports swirl air as it enters the combustion chamber for better fuel-to-air mixing, more complete combustion, and better fuel economy.





The perfect speed... in either direction

Hydrostatic transmission provides infinite speed selection in forward or reverse.

As you've probably figured out by now, "forward" and "reverse" are irrelevant concepts when you work with a Bidirectional™ tractor. Case in point: the unique TV140 drive train. This three-speed, electrically controlled hydrostatic drive system efficiently transfers power to the ground and gives you equal and unlimited variation of speed in either direction.

Infinitely variable speed... no clutch needed

Direction and speed are controlled by one handy control. Push it forward and you move forward. The further you push, the faster you go. Pull it back and the tractor slows gradually and shifts into neutral, then reverse. No clutch needed. It's the best shuttle shifting you'll find, which makes the TV140 ideal for loader work.

Select from three ranges

The hydrostatic drive system has three ranges that you select by pressing

a three-position switch on the right-hand console. Range shifting can be done on the go, allowing you to react quickly to changing working conditions. Even under the most demanding circumstances, the TV140 provides the right speed to work most effectively.

Built-in braking action

The hydrostatic system provides dynamic braking for the drivetrain. Simply pull the forward-neutral-reverse control slowly toward the neutral position to smoothly stop the tractor. The tractor foot brake may be used as required for additional braking force. Pressing the foot pedal on either end of the cab activates a hydraulically-actuated wet disc brake system.

Ideal creeper transmission

For applications requiring extremely slow speeds, the TV140 provides infinite slow speed offerings superior to those offered by competitive brand creeper transmissions.

Range 1	0 to 5 mph	Provides ample power for draft work and is excellent for loader work. The hydrostatic drive can be shuttled from a slow forward speed while filling the bucket, to a faster reverse speed when the bucket is full.
Range 2	0 to 8 mph	Ideal for most PTO work. Infinite hydrostatic speeds allow ground speed to be perfectly matched to changing crop conditions.
Range 3	0 to 18 mph	Transport range. Hydrostatic drive allows travel speeds to be easily adjusted for changing road conditions.

with 480/85 R34VT tires, speeds indicated are average



*One control lets you
change speed and direction.
No need to clutch or
search for the right gear.*





Superior traction and maneuverability





Four-wheel drive and articulated steering keep you working in all conditions.

The TV140 keeps you working when other tractors can't. Full-time four-wheel drive with four equal-size tires gives the Bidirectional™ superior traction in wet, icy or muddy conditions. Slippage is minimized, resulting in more effective horsepower use and less tire wear.

The Bidirectional is unique in yet another way. It articulates up to 45 degrees so you turn sharper, faster and more accurately for reduced crop damage at the end of the rows and better maneuverability with a loader. You get best-in-class turning at all track settings. The TV140 wheelbase is longer than competitive models for a better ride and more comfort.

Differential lock provides more pull in tough spots

Differential lock at cab end locks both wheels together to pull through rough spots. Optional engine end differential lock provides traction at all four wheels. Both are electro-hydraulically controlled with rocker switches on the right-hand console.

Many tire packages available to suit your needs

The TV140 can be equipped with over nine different bias or radial tire packages. Among the options are new non-directional tires. With these tires, the lugs are always facing forward, so they perform equally well, no matter what direction you're driving. The tread pattern has a high center contact area for excellent ride and handling. Multiple interlocking lugs provide increased traction edges.

The ideal high-clearance tractor

New 54-inch tires are available for high-clearance work like spraying or swathing. The Bidirectional works well in row crops since the rear tires track in the trail of the leading tires to minimize crop damage. The Bidirectional also gives you superior visibility to the rows. And, there's no need for a special creeper transmission. The hydrostatic drive system has extremely slow speeds built in.

More hydraulic performance

Ample flow provides instant response at every turn.

When it comes to hydraulic power, the TV140 gives you more ... more flow, more remotes and more value. The specially designed closed-center, load-sensing (CCLS) hydraulic system supplies 30 gallons per minute (gpm) for fast implement response. A second, closed-center, non-load sensing independent auxiliary hydraulic system with 35 gpm can be added for continuous flow applications requiring a combination of high flow and high pressure hydraulic drives.

Three CCLS remote valves are standard at the cab end, with two additional remotes available at the engine end for a total of five factory-installed remotes. In-cab flow-control knobs are standard equipment for the cab-end circuits. Color coding (green, tan and blue) of the flow controls, the engagement levers on the right-hand console and the couplers make it easy to keep track of hydraulic operations. The green and tan circuits are linked to foot pedal controls for applications such as the front-end loader. The blue circuit foot pedal is optional.



Flow control for all three cab-end remotes is provided inside the cab for your convenience.

Up to 8700-lb. lift capacity

The TV140 increases your productivity by allowing you to handle larger implements ... and more of them. The standard Category II three-point hitch at the cab end of the tractor has a lift capacity of 4,400 lbs. The addition of an auxiliary lift cylinder increases the lift capacity to an industry-leading 8700 lbs. Standard flexible link ends make implement hookup fast. Telescoping stabilizers control the sway of the lower links while working, and during transport.

For more productivity, add a second three-point hitch to the Bidirectional. The engine-end three-point hitch can lift up to 4,000 lbs. A position display on the electronic instrument cluster shows you the positions of both hitches.

Double your PTO productivity

You can equip your Bidirectional tractor with two PTOs for unlimited flexibility when doing PTO work. A two-speed 540 and 1000 rpm PTO shaft is standard at the cab end. A two-speed 540 and 1000 rpm shaft is a factory- or dealer-installed option at the engine end.





Hassle-free maintenance

Flip-up hood provides complete access to the engine.

Servicing your Bidirectional™ tractor is a hassle-free experience. You can check or add engine oil without raising the hood and without the interference of a loader. For complete access to the engine, the hood lifts up and out of the way... no tools needed and no bulky side panels to remove. Just release the lever forward and allow it to return. With

the hood fully raised, you can easily reach all components of the engine and cooling system. Filters are easy to check and replace. Sight gauges for hydraulic oil and clear reservoirs for coolant and brake fluid make level checks especially easy.



The high-capacity 55-gallon (total capacity) fuel tanks are located in front of the cab steps and can be reached conveniently from the ground and filled from either side.



The engine air filter is accessible from ground level. Easy spin-off wing nuts make cleaning or replacement a breeze.



Pull this lever and the entire hood flips up for complete engine access.



Two fuel filters ensure that only clean, moisture-free fuel enters the combustion chamber.



The oil dipstick and fill port can be reached without lifting the hood.



The Bidirectional™ is the ultimate loader tractor

The Model 7614 Loader and the TV140 are an unbeatable combination.

The Bidirectional™ tractor is ideal for loader work. Think about it... the TV140 provides infinite speeds, better turning and easier shuttling than any other tractor. And, the loader is attached to the cab end of the tractor, so you enjoy a number of advantages over conventional tractors. You get a more direct view to the bucket cutting edge because the tractor hood

isn't in the way. The loader frame is wider, providing more strength and stability. Hydraulic hoses are shorter and fit better since they don't have to be routed around the length of the tractor. Another plus: the loader doesn't interfere with regular maintenance of the tractor. There's no reason to raise it, reach through it or reach over it to perform daily maintenance or

provide periodic maintenance, because it is mounted on the cab end.

And, you make no sacrifices on performance with the 7614 loader. The reach at full height and the 5950-pounds of breakout force are far superior to competitive loaders. The 7614 easily attaches to the cab end and can be removed quickly when you need the tractor for other jobs. Two different quick-attach buckets, a grapple, and manure tines are available for more versatility.

Model 7614 Loader (equipped with 18.4 x R34 tires)

Maximum lift height (at pivot pin).....	13' 2"
Dump clearance	10' 3"
Breakout force (at bucket pivot point).....	8000 lbs.
Reach at maximum lift height.....	64"
Lift capacity (at bucket pivot point).....	6150 lbs.
Shipping weight.....	3175 lbs.





Specifications

ENGINE

PTO horsepower (kw) at 2,100 rpm	105 (76.7)
PTO torque rise	60%
Rated speed, full load, rpm	2,200
Model	New Holland
Type	Diesel
Aspiration	Turbocharged
Cold starting	Ether start and block heater
Cylinders	6
Displacement, cu. in. (L)	456 (7.5)
Idle speed	700-800 rpm
Maximum no load speed (high idle)	2,370-2,420 rpm

AXLES

Type	Inboard planetary
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BRAKES

Type	Wet, four disc, hydraulically actuated
Parking brake	Twin cable mechanically operated using actuator assemblies of service brake

CAPACITIES

Cooling system, qt (L)	26 (24.6)
Engine oil (with filter), qt (L)	18 (17)
Front axle, gal (L)	6.6 (25)
Fuel tanks, gal (L)	55 (208)
Hydraulic reservoir fill	
with filter change, gal (L)	10.5 (47)

COOLING SYSTEM

Fan Type	Steel 6 blade
Size, in (mm)	20 (508)
Radiator pressure cap, psi (bar)	14.5 (1.0)
Thermostats (2):	
Starts to open	178F (81C)
Fully open	203F (95C)

ELECTRICAL

Type	12-volt negative ground
Alternator	100 amps
Dual Batteries	950 cold cranking amps each
Starter motor	Positive engagement, solenoid operated 6.0 HP (4.5 kw)

DIMENSIONS* with 480/85 R34VT tires

Clearance, in (mm):	
Differentials	20.9 (533)
Drawbar rails	20.2 (514)
Axles	21.9 (556)
Height (to top of cab), in (mm)	122 (3097)
Inside tire dimension (min.), in (mm)	42.6 (1082)
Length, in (mm)	183.8 (4669)
Maximum operating weight, lb (kg)	18,000 (8172)
Turning Radius, in (mm)	142.5 (3621)
Wheelbase, in (mm)	118 (3000)
Width, in (mm)	77.4-97.4 (1965-2474)

FUEL SYSTEM

Injection pump type	Bosch VE
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HYDRAULICS

Type	Closed center, load sensing
Displacement, gpm (lpm)	30 (114)
Pressure compensator setting, psi (bar)	3,000 (207) at zero flow
Pump type	Variable displacement piston
Quick couplers	1/2 SAE standard/ISO type A
Steering:	
Type	Load sensing hydrostatic
Maximum articulation angle	45 degrees

POWER TAKE OFFS (PTO)

Speeds, rpm:	
Standard cab end, dual speed	540/1000
Engine end, optional dual speed	540/1000
540 rpm:	
Shaft diameter, in (mm)	1.375 (34.9)
Number of splines	6
1000 rpm:	
Shaft diameter, in (mm)	1.375 (34.9)
Number of splines	21
Engine speed: (both ends)	
@ 540 PTO rpm	1,890
@ 1000 PTO rpm	2,049
PTO brake	Integral hydraulic brake.
PTO clutch	Electric/hydraulic, multi-disc wet

THREE-POINT HITCHES

Cab end (standard)	CAT II
	Electronic position control
	Raise/lower switch on
	F-N-R handle
Engine end (optional)	CAT II
	Electronic position control
	Raise/lower switch on
	F-N-R handle

Max. lift capacity 24 in. (610 mm) behind

lift point, lb (kg):	
Cab end (with 1 external lift cylinder)	6,500 (2948)
Engine end	4,000 (1814)
Cab end drawbar	Standard
Engine end drawbar	Optional

HYDROSTATIC DRIVE

Type	Electrically controlled, three-speed range hydrostatic motor
Pump	Variable displacement axial piston

GROUND SPEEDS mph (km/h):

First	4.7 (7.9)
Second	7.6 (12.7)
Third	18.3 (30.6)

OPTIONAL EQUIPMENT		
	Factory-Installed	Dealer-Installed
Engine-end 3-point hitch	•	•
Engine-end swinging drawbar	•	•
Engine-end PTO (540/1000 rpm)	•	•
Engine-end remote valves (2)	•	•
Cab-end 3-point hitch auxiliary ram	•	•
Engine-end differential lock	•	
¾-inch remote couplers	•	•
Third floor pedal	•	•
Independent auxiliary hydraulic pump and system	•	•
Engine weight packages	•	•
Hydraulic oil heater	•	•
Wheel weights	•	•
Rotary beacon		•
4-inch spacers		•
Cab-end road lights		•
Belly pans		•
Radar		•
Step kit for 54-inch tires		•
Tool box		•
Grill guard		•
Aux. pump drive	•	•
Radio		•
External mirrors		•
Loader-grapple	•	•
Loader-manure tines	•	•
Loader-hydraulic boom kit	•	•
Loader-spill guard		•
Engine-end fenders		•



Trust New Holland for quality, reliability and value

For more than a century, New Holland products have helped generations of customers become more productive and more profitable. You can trust New Holland. And you can put your trust in your New Holland dealer.

Expert assistance for equipment, parts and service

Your New Holland dealer is committed to helping you choose the equipment that's right for your operation. Equipment designed, built and backed to meet your needs.

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Rely on New Holland Credit Company for financing and leasing plans that maximize your cash flow, preserve your working capital and get you into the

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Trust New Holland—and your New Holland dealer—for quality, reliability and value.



YOUR NEW HOLLAND DEALER



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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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