

New Holland TV145 Bidirectional™ Tractor Specifications



ENGINE

Model	New Holland
Type	New Holland diesel
Aspiration	Turbocharged and intercooled
Cold starting	Ether start and block heater
Cylinders	6
Displacement, cu. in. (L)	456 (7.5)
Fuel capacity (dual tanks), gal (L)	55 (208)
Idle speed	775-825 rpm
Maximum no load speed (high idle)	2,350-2,400 rpm
PTO horsepower (kw) at 2,500 rpm	105 (76.7)
PTO torque rise	60%
Rated speed, full load, rpm	2,200

AXLES

Type	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)	29 (27)
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 (39.7)

COOLING SYSTEM

Fan Type	Polycarb 7 blade
Size, in. (mm)	21.6 (550)
Radiator pressure cap, psi (bar)	14.5 (1.0)
Thermostats (2):	
Starts to open	178°F (81°C)
Fully open	203°F (95°C)

ELECTRICAL

Type	12-volt negative ground
Alternator	HD120 amps
Dual Batteries	950 cold cranking amps each
Starter motor	Positive engagement, solenoid operated 6.0 HP (4.5 kw)

DIMENSIONS* with 480/85 R34 VT 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)	22,000 (9991)
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°

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:	
@ 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	8,700 (3946)
Engine end	4,000 (1812)
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): Equipped w/480/95 R34 Tires

First	4.8 (7.7)
Second	7.6 (12.2)
Third	18.3 (29.4)
Brakes	Dynamic hydrostatic braking with secondary main driveline disc brake

New Holland Loader Specifications

82LB 84LB



MODEL

	82LB	84LB
Maximum lift height to pivot pin, in. (mm)	144 (3658)	158 (4013)
Maximum lift height under level bucket, in. (mm)	135 (3429)	149 (3785)
Clearance at full height with bucket dumped (45 degrees), in. (mm)	110 (2794)	123 (3124)
Reach at maximum lift height and bucket dumped (45 degrees), in. (mm)	41.44 (1053)	64 (1626)
Maximum dump angle at full height, degrees	60° *	75°
Reach with bucket on ground, in. (mm)	88.36 (2244)	121 (3073)
Bucket rollback angle at ground	30°	21°
Digging depth, in. (mm)	3 (76)	4 (102)
Rollback angle at full height	40°	62°

TOP POSITION

Lift capacity at maximum height at pivot, lbs. (kg)	6,965 (3159)	6,150 (2790)
Lift capacity at maximum height, 31.5 in. (800 mm) ahead of pivot, lbs. (kg)	4,390 (1991)	4,400 (1996)
Bucket rollback force at maximum height, 31.5 in. (800 mm) ahead of pivot, lbs. (kg)	6,076 (2756)	6,100 (2767)

GROUND POSITION

Breakout force at pivot point, lbs. (kg)	13,440 (6096)	8,000 (3629)
Breakout force at 31.5 in. (800 mm) ahead of pivot, lbs. (kg)	8,200 (3719)	5,950 (2699)
Bucket rollback force at ground 31.5 in. (800 m) ahead of pivot, lbs. (kg)	8,160 (3701)	11,400 (5171)

* Mechanical self leveling

Note: Loader specifications may vary based on tractor model, hydraulic system, tire size, etc.
Specs for the 84LB loader equipped with 480/85R34 tires.

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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.