



U80B TRACTOR LOADER



- Turbocharged Tier III Certified Low Emission Engine
- Rugged Three-point hitch
- Unobstructed views provide outstanding visibility
- Excellent reach at maximum dump height



BUILT AROUND YOU

CLASS-LEADING POWER AT BUCKET AND HITCH

A New Holland tractor loader pays its way in utility work and on construction and landscape sites. The rugged U80B combines class-leading power at the bucket and hitch with outstanding operator control to handle tough loading, scraping and leveling work. Select from a variety of implements and attachments to expand the versatility of your New Holland tractor loader.

Superior lifting and loading performance

- 4.5-liter engine delivers power and torque needed for loading, pushing or lifting
- Optional turbocharged engine provides even more horsepower
- Curved loader arms for self leveling
- Excellent reach at maximum dump height allows you to place loads exactly where you want them

Best-in-class scraping and leveling performance

- Rugged three-point manual hitch with controllable down pressure
- Optional four-wheel-drive provides added traction in difficult conditions
- 11-inch ground clearance for work on rough, uneven terrain

Smooth control

- Synchromesh transmission with power shuttle allows smooth direction changes between the four forward and four reverse speeds
- Loader bucket lift and tilt are controlled by a single lever
- The loader control lever also includes transmission de-clutch control and push-button activation of electro-hydraulic differential lock for added traction in slippery conditions
- Maintenance-free hydraulic, self-equalizing and self-adjusting wet rear disc brakes for sure stopping



Large Operator Platform

Easy-to-use controls and suspension seat enhance operator comfort and productivity.

Model	Aspiration	Net Horsepower @ 2,200 rpm	Torque Rise at Rated Speed	Heaped Bucket Capacity	Breakout Force at Dump Cylinders	Dump Reach at Full Height
U80B	Turbocharged	Net 79 hp (59 kW)	33%	1.03 cu yd (.79 m³)	9,607 lbf (42,734 N)	25.9 in (657 mm)



The New Holland B Series Tractor Loader is US EPA Tier III certified for low emissions.

Optional Glide Ride™

Get an extra-smooth ride and easily carry heavy loads over rough ground without spilling when you add the Glide Ride option. An accumulator stabilizes the load, ensuring that shocks and vibrations are not transferred to the machine or to you in the operator's seat.

DESIGNED FOR TIME-SAVING CONVENIENCE

While the performance of a New Holland tractor loader boosts your on-the-job efficiency, the built-in comfort and convenience also saves time for your operators.



Efficient, flat-deck design

- Open, flat-deck platform provides valuable legroom and makes getting on and off easy
- Excellent line of sight around the entire machine make operators more efficient, comfortable and confident
- Easy-to-use controls and a suspension seat enhance operator comfort
- Strategically placed work lights provide optimum lighting for early morning or evening work
- Optional all-weather cab provides the added comfort of heat and optional air conditioning

Servicing ease

- Side panels lift off for convenient maintenance
- Access doors open for quick daily fluid level checks
- 31.4-gallon fuel capacity allows a full days work without refueling



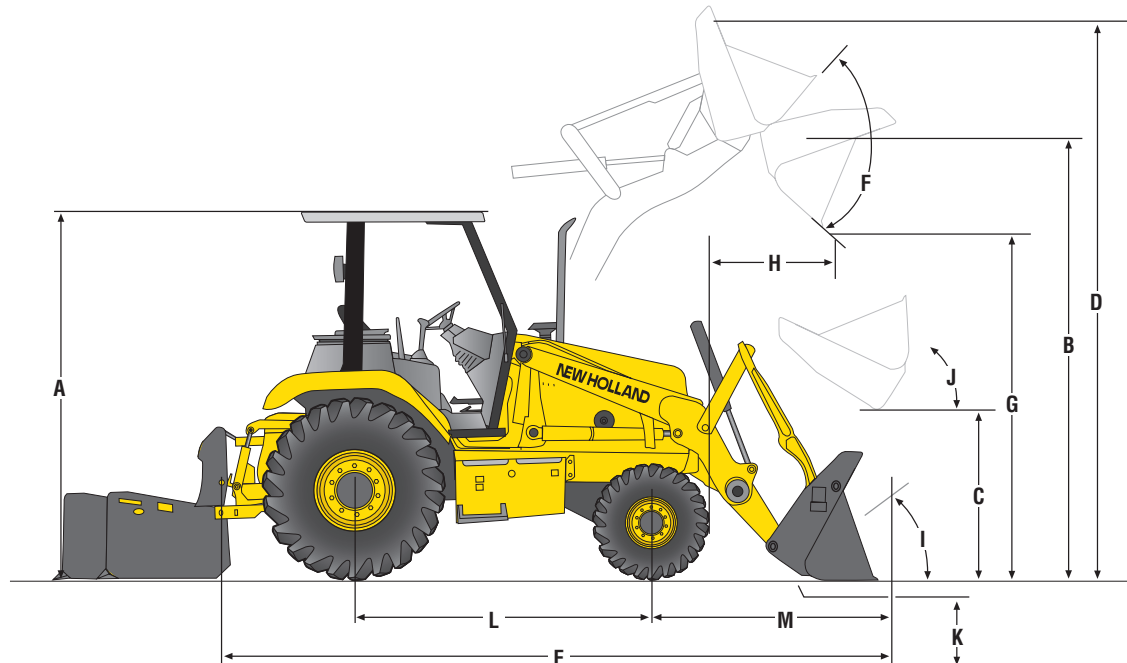
Side panels can be removed for complete engine access.



Access doors on side service panels open for fast daily maintenance checks.

U80B Specifications

DIMENSIONS



	General Purpose Bucket	4-1 Bucket		General Purpose Bucket	4-1 Bucket
Height to:			Height to		
A. Top of canopy	8'9" (2.66 m)	8'9" (2.66 m)	Bucket rollback:		
B. Bucket hinge pin fully raised	11'2" (3.4 m)	11'2" (3.4 m)	I. @ groundline	40"	40"
C. Bucket hinge pin @ SAE carry	12.8" (325 mm)	14.6" (372 mm)	J. @ SAE carry	45"	45"
D. Overall operating height —fully raised	13'8" (4.17 m)	14'3" (4.35 m)	K. Digging depth below grade	adjustable	adjustable
E. Overall length	16'11" (5.15 m)	16'8" (5.09 m)	Bucket flat	7.8" (199 mm)	7.1" (180 mm)
Width over tires:			Clam open (dozing)	NA	4.4" (111 mm)
11 L x 16	79.3" (2.02 m)		Ground clearance at front axle	10.9" (276 mm)	10.9" (276 mm)
12 L x 16.5	81.1" (2.06 m)		L. Wheelbase:		
17.5 L x 24	81.7" (2.08 m)		2WD		84" (2.13 m)
F. Dump angle @ full height	45°	45°	4WD		84.5" (2.15 m)
G. Dump clearance @ full height, 45° dump			M. Reach from front axle—		
Bucket	8'8" (2.64 m)	8'10" (2.72 m)	Centerline-bucket on ground	75.2" (1.91 m)	72.7" (1.85 m)
Clam open	NA	9'8" (2.95 m)	Maximum clam opening	NA	38.3" (972 mm)
H. Dump reach @ full height, 45° dump			Moldboard height	NA	36.8" (934 mm)
Bucket	25.9" (657 mm)	25.4" (644 m)	Lift capacity to full height	6,537 lbs. (2956 kg)	6,537 lbs. (2971 kg)
Clam open	NA	11.9 (302 m)	Breakout force		
			Lift cylinders	9,271 lbf (41,239 N)	8,766 lbf (38,993 N)
			Dump cylinders	9,607 lbf (42,734 N)	10,325 lbf (45,928 N)

Note: Loader dimension taken with 4WD, 19.5 L x 24 rear tires and 82" (2.08 m) general purpose bucket except as noted

OPERATING WEIGHTS

Lightest Configuration	Heaviest Configuration	Add-on Weights	
Unit equipped with 2WD ROPS/FOPS canopy, non-suspension seat, 82" (2.08) general purpose loader bucket, 3-point hitch, 527 lbs (239 kg) counterweight, 17.5 L x 24 rear tires, 11 L x 16 front tires, single battery, no operator.	Unit equipped with 4WD, suspension seat, 82" (2.08 m) 4-1 loader bucket, 3-point hitch, 527 lbs (239 kg) counterweight, box scraper, 19.5 L x 24 rear tires, 12 L x 16.5 front tires, dual batteries, no operator.	Box scraper	+1,422 lbs (645 kg)
U80B	U80B	4WD w/driveshaft guard	+283 lbs (128 kg)
10,553 lbs (4787 kg)	14,413 lbs (6538 kg)	82" 4x1 bucket	+1,451 (658 kg)
		82" GP bucket	+683 (310 kg)
		Counterweight in lieu of 3 port hitch	+3,000 (1361 kg)
		Optional plug in cast counterweight	+483 (219 kg)
		Optional wheel weights	+546 (256 kg)

U80B Specifications

LOADER CYCLE TIME

Raise to full height.....	5.3 sec
Bucket dump.....	1.1 sec
Power down.....	2.4 sec
Return-to-dig.....	3.2 sec
4-1 clam open.....	2.28 sec
4-1 clam close.....	3.13 sec

LOADER

Single-lever control for lift and tilt	Dual parallel dump cylinders
Positive hold float	Clutch disconnect button on loader control and shift levers
Return-to-dig	Bucket position indicator
Automatic self-leveling	
In-line, reverse linkage	

Loader Bucket Sizes	Width	Weight	Struck	Heaped
General Purpose Bucket.....	82" (2.08 m)	683 lbs (310 kg)	.87 yd ³ (.67 m ³)	1.03 yd ³ (0.79 m ³)
4-1 Bucket.....	82" (2.08 m)	1,462 lbs (663 kg)	.85 yd ³ (.65 m ³)	1.04 yd ³ (0.80 m ³)

ENGINE

Turbo	
Model.....	FPT 445T/MMG diesel
Type.....	4-stroke, turbocharged
Cylinders.....	4
Bore x stroke.....	4.09" x 5.19" (109 x 132 mm)
Displacement.....	274 in ³ (4.5 L)
Fuel injection.....	Direct
Engine speeds (rpm)	Rated speed, full load..... 2,200
	Low idle..... 850 - 1,000
	High idle, no load..... 2,300 - 2,450
Horsepower (SAE J1349)	Gross @ 2,200 rpm..... 85 (63 kW)
	Net @ 2,200 rpm..... 79 (59 kW)
Maximum torque @ 1,500 rpm	Gross..... 276 lb-ft (374 Nm)
	Net..... 270 lb-ft (366 Nm)
Torque rise at rated speed.....	33%

Note: Both naturally aspirated and turbocharged engines meet federal emission regulations.

POWERTRAIN

Transmission type.....	4 speed synchromesh with hydraulically actuated clutches and electric F/R shuttle control, clutch disconnect buttons on the transmission shifter and loader control lever
Torque converter ratio.....	3.337:1
Differential-lock.....	Electric activation
Service brakes.....	Individually applied hydraulically actuated maintenance-free self adjusting inboard mounted wet disc
Parking brakes.....	Mechanically applied with electric activation sensors at each brake
Travel speeds	
Forward.....	1st..... 2nd..... 3rd..... 4th
mph (km/h).....	3.8 (6.1)..... 6.9 (11.1)..... 13 (21)..... 25.2 (40.5)
Reverse.....	1st..... 2nd..... 3rd..... 4th
mph (km/h).....	3.8 (6.1)..... 6.9 (11.1)..... 13 (21)..... 25.2 (40.5)

Note: Travel speeds at 2,334 engine rpm with 17.5 L x 27 rear tires.

ELECTRICAL

Voltage.....	12 Volts, negative ground
Alternator.....	90 amp (1.25 kW)
Battery.....	685 CCA
Optional batteries.....	(2) 525 CCA

HYDRAULICS

Pump.....	Gear-type, transmission mounted, direct drive to engine crankshaft
Loader flow @ rated engine rpm.....	28.5 gpm @ 2,000 psi (108 L/min @ 207 bar)
Loader control valve.....	2 or 3-spool with single lever control for lift, dump and tilt and auxiliary hydraulics, positive hold float and return-to-dig
3-pt hitch flow @ rated engine rpm.....	3 to 8 gpm @ 2,000 psi (0 to 30 L/min @ 137 bar)
3-pt hitch control valve.....	Sectional 4-spool, open-center parallel circuits with variable control for lift, pitch, tilt, and 1 auxiliary
Loader auxiliary hydraulics.....	12 to 28.5 gpm (45.4 to 108 L/min)
Main relief pressure.....	3,050 + 50 - 50 psi @ 28.5 gpm (210 + 3 - 3 bar @ 108 L/min)
Filtration.....	7 micron full flow replaceable cartridge on return line, condition indicator light for filter
Oil cooler.....	Heavy-duty

TURNING DIAMETER

2WD	Brakes on..... 24'3" (7.39 m)
	Brakes off..... 25'8" (7.82 m)
4WD-engaged	Brakes on..... 23'1" (7.04 m)
	Brakes off..... 27'5" (8.36 m)
4WD-disengaged	Brakes on..... 24'3" (7.44 m)
	Brakes off..... 25'9" (7.85 m)

Note: Turning diameter dimensions are curb to curb w/82" (2.08 m) general purpose bucket.

TIRES

Front.....	2WD-11 L x 16.1, 10-ply rating
	4WD-12 L x 16.5, 8-ply rating
Rear.....	2/4 WD-17.5 L x 24, 10-ply rating STD
	2/4 WD-19.5 L x 24, 10-ply rating OPT

U80B Specifications

SERVICE CAPACITIES

Fuel tank	31.4 gal (119.0 L)
Hydraulic system	Total..... 20.25 gal (77.0 L)
	Reservoir w/filter 14.5 gal (54.9 L)
	Reservoir w/o filter 14.0 gal (53.0 L)
Transmission	2WD Total system 4.8 gal (18.5 L)
	4WD Total system 5.5 gal (21 L)
4WD Front axle	Differential 5.8 qt (5.5 L)
	Planetaries (each) 0.75 qt (0.7 L)
Rear Axle	Differential 15.0 qt (14.2 L)
	Planetaries (each) 1.6 qt (1.5 L)
Engine oil w/filter	12.7 qt (12.0 L)
Cooling system	3.5 gal (15.8 L)

3 POINT HITCH

Category II 3-point hitch	
Hydraulic lift, pitch, tilt and (1) auxiliary remote	
Variable flow from 0 to 8 gpm (0 to 30 L/min)	
600 lbs (272 kg) counterweight included with hitch	
3-point Hitch Lift Capacity	
Hitch position	
5.7" (145 mm)	2,973 lbs (13,225 N)
11.2" (284 mm)	3,436 lbs (15,285 N)
16.7" (424 mm)	3,487 lbs (15,512 N)
22.1" (561 mm)	3,353 lbs (14,915 N)
27.6" (701 mm)	2,979 lbs (13,252 N)
33.1" (841 mm)	2,612 lbs (11,619 N)

Note: Hitch position is vertical distance of lowest hitch point above ground.

Base and Optional Equipment

BASE EQUIPMENT

ENGINE FPT 445T/MMG Turbocharged Automatic fan belt tensioner Integral engine oil cooling Fuel filter w/water trap Air intake pre-cleaner Dual element air cleaner 65 amp alternator 685 CCA 12-volt battery Heavy duty radiator Spark-arresting muffler	Standard seat w/15° right, 30° right and 30° left swivel Hand and foot throttles* Loader control lever w/push button activation of differential lock and transmission de-clutch Two Accessory power plugs (30 amp) Anti-vandalism covers Beverage holder Coat hook w/tether strap Interior rear-view mirror 3" (51 mm) retractable seat belt Storage box
POWERTRAIN 2WD 4F/4R Power shuttle synchromesh transmission Torque converter Transmission de-clutch Electro-hydraulic differential lock Hydrostatic steering Disc brakes	INSTRUMENTS Gauges — back lit Engine water temperature Converter oil temperature Fuel Tachometer/hourmeter Voltmeter Warning lights Air cleaner restriction Alternator Engine oil pressure Hydraulic oil filter bypass Parking brake engagement Rear axle fluid temperature sensing system Low fuel Audible alarms Coolant temperature Engine oil pressure Parking brake engagement Shuttle engagement Backup alarm Turn signal indicators Horn
HYDRAULICS 2 spool loader control valve 4 spool 3-point hitch control valve Heavy-duty oil cooler Other Removable side panels Lights: 2 halogen headlights 2 rear flood 2 rear tail and stop 2 front flashers/turn 2 rear flashers/turn	
OPERATOR ENVIRONMENT ROPS/FOPS canopy Key start Hydrostatic steering	

OPTIONAL EQUIPMENT

OPERATOR STATION Cab w/ Heat Cab w/ Heat and Air Conditioning Vinyl Suspension Seat w/ Armrest (Std. on 4 wheel drive) Hand Throttle	LOADER Loader Auxiliary Hydraulics and Controls (3 spool loader valve) Pin-On Multipurpose (4X1) 82" Loader Bucket w/ Cutting Edge (includes auxiliary hydraulics) Hydraulic Quick Coupler (From FFC, includes auxiliary hydraulics, 3 spool valve)
ENGINE Cold Start Package (Dual Batteries & Grid Heater)	
HYDRAULICS Laser-Ready Valve Kit (includes valve, plumbing, and electrical harness) 5 Spool, Dual Tilt Cylinders w/ Return to Position, Load Holding Valve, and 3 Point Hitch Control 3 Point Hitch w/ PTO Hydraulic Pump (required when installing or using an hydraulic PTO) Glide Ride	OTHER Drawbar Tool Box 84" Box Scraper Rear Counterweight (3,000 lbs) Additional Stackable Rear Counterweights (475 lbs) 19.5 x 24 10PR Rear Tires

TRACTOR LOADER

U80B

Horsepower: Net 79 hp (59 kW)

Operating weight: 10,553 to 14,413 lbs
(4787 to 6538 kg)

Bucket capacity: 1.03 cu yd (.79 m³)
heaped

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FIAT
GROUP

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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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