

# LOADER BACKHOES/TRACTOR LOADER

**U80c**

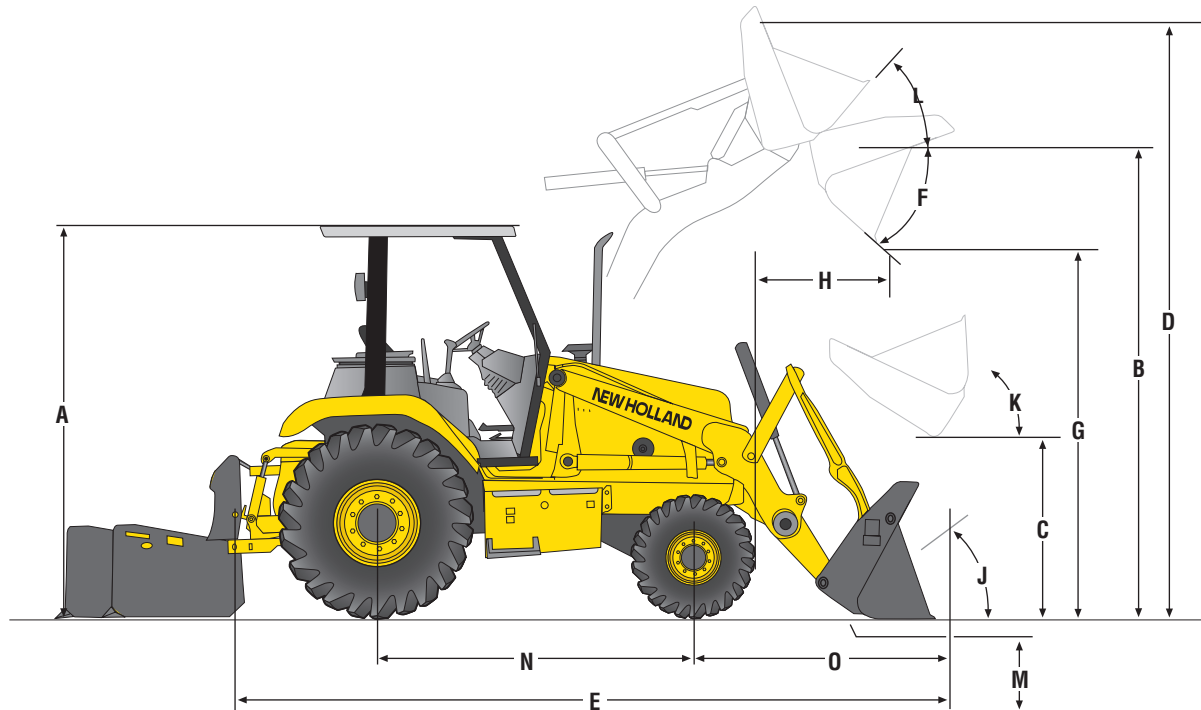


- New Flip Up Hood for Easier Daily Maintenance
- Narrow Backhoe Boom Design for Optimal Visibility
- Outstanding Loader Bucket Breakout Forces



BUILT AROUND YOU

# U80C SPECIFICATIONS



## LOADER DIMENSIONS

		Long Lip Bucket 19.5 L x 24 Tires	4 IN I® Bucket 17.5 L x 24 Tires			Long Lip Bucket	4 IN I® Bucket
<b>A.</b>	Height to:			<b>H.</b>	Dump reach @ full height, 45° dump:		
	Top of canopy, ft/in (m)	8' 12" (2.73)	8' 9" (2.67)		Bucket, ft/in (m)	2' 2" (0.66)	2' 2" (0.66)
	Height to top of canopy – Low profile ROPS, ft/in (m)	8' 9" (2.65)	8' 6" (2.59)		Clam open, in (m)	NA	11.8 (0.29)
<b>B.</b>	Top of cab, ft/in (m)	8' 12" (2.74)	8' 10" (2.68)	<b>J.</b>	Bucket rollback:		
	Bucket hinge pin fully raised, ft/in (m)	11' 3" (3.41)	11' 3" (3.41)		@ Groundline	40°	40°
<b>C.</b>	Bucket hinge pin @ SAE carry, ft/in (m)	1' 1" (0.33)	1' 3" (0.37)	<b>K.</b>	@ SAE carry	45°	45°
	<b>D.</b>	Overall operating height – fully raised, ft/in (m)	13' 9" (4.17)		14' 4" (4.35)	<b>L.</b>	@ Full height
<b>E.</b>		Overall length w/ 3-point hitch, ft/in (m)	16' 11" (5.15)	16' 9" (5.09)	<b>M.</b>		Digging depth below grade:
	Width over tires:			Bucket flat, in (m)		7.8 (0.19)	7.1 (0.18)
	11 L x 16, ft/in (m)	6' 8" (2.02)	6' 8" (2.02)	Clam open (dozing), in (m)		NA	4.4 (0.11)
	12 L x 16.5, ft/in (m)	6' 10" (2.06)	6' 10" (2.06)	Ground clearance at front axle, in (m)		10.9 (0.28)	10.9 (0.28)
	19.5 L x 24, ft/in (m)	6' 10" (2.07)	6' 10" (2.07)	<b>N.</b>		Wheelbase 4WD, ft/in (m)	7' 1" (2.15)
17.5 L x 24, ft/in (m)	6' 10" (2.07)	6' 10" (2.07)	Wheelbase 2WD, ft/in (m)		7' 0" (2.14)	7' 0" (2.14)	
<b>F.</b>	Dump angle @ full height	46°	45°	<b>O.</b>	Reach from front axle centerline – bucket on ground, ft/in (m)	6' 3" (1.89)	5' 12" (1.83)
	<b>G.</b>	Dump clearance @ full height, 45° dump:				Maximum clam opening, ft/in (m)	NA
Bucket, ft/in (m)		8' 8" (2.63)	8' 11" (2.71)		Moldboard height, ft/in (m)	NA	3' 1" (0.93)
Clam open, ft/in (m)		NA	9' 8" (2.93)		Lift capacity to full height, lb (kg)	6,503 (2950)	6,537 (2965)
					Breakout force:		
				Lift cylinders, lb (N)	9,271 (41 239)	8,766 (38 993)	
				Dump cylinders, lb (N)	9,607 (42 734)	10,325 (45 928)	

NOTE: Loader dimensions taken with 4WD, 19.5 L x 24 rear tires and 82 in (2.08 m) general purpose bucket except as noted.

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LOADER				
Single-lever 5 function control w/ self-leveling and Return-to-Dig		In-line, reverse linkage		
Positive hold float		Dual parallel dump cylinders		
Return-to-dig		Clutch disconnect button on loader control and shift levers		
Automatic self-leveling		Bucket position indicator		
Loader Bucket Sizes	Width, in (m)	Weight, lbs (kg)	Struck, yd <sup>3</sup> (m <sup>3</sup> )	Heaped, yd <sup>3</sup> (m <sup>3</sup> )
Long Life Bucket	82 (2.08)	683 (310)	.87 (.67)	1.03 (0.79)
4-in-1 Bucket	82 (2.08)	1,462 (663)	.85 (.65)	1.04 (0.80)

ENGINE	
<b>Turbo</b>	
Model	FPT F5HFL413D*A
Type	4-stroke, turbocharged
Cylinders	4
Bore x stroke, in (mm)	3.9 x 4.33 (99 x 110)
Displacement, in <sup>3</sup> (L)	207 (3.4)
Fuel injection	Direct HPCR (High Pressure Common Rail)
Engine speeds, (rpm)	
Rated speed, full load	2,200
Low idle	875 - 1,025
High idle, no load	2,300 - 2,450
Horsepower (SAE J1349)	
Gross @ 2,200 rpm, (kW)	85 (63)
Net @ 2,200 rpm, (kW)	78 (58)
Maximum torque @ 1,500 rpm	
Gross, lb-ft (Nm)	276 (374)
Net, lb-ft (Nm)	268 (364)
Torque rise at rated speed	36%

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	3.2:1			
Differential-lock	On the go push-button activation			
Service brakes	Individually applied hydraulically actuated, maintenance-free, self adjusting outboard mounted wet disc			
Parking brakes	Trans Mounted SAHR (Spring Applied Hydraulic Release)			
Travel speeds, mph (km/h)	1st	2nd	3rd	4th
Forward	3.8 (6.1)	6.1 (9.8)	13 (21)	24.3 (39.1)

Note: Travel speeds at 2,330 engine rpm with 19.5 L x 24 rear tires.

ELECTRICAL	
Voltage	12 Volts, negative ground
Alternator, amps	120
Battery	685 CCA
Optional batteries	(2) 525 CCA
Power plugs, amps	30 total

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

TURNING DIAMETER		
2WD, ft/in (m)	Brakes on	12' 2" (3.70)
	Brakes off	12' 10" (3.91)
4WD-engaged, ft/in (m)	Brakes on	11' 7" (3.52)
	Brakes off	13' 9" (4.18)
4WD-disengaged, ft/in (m)	Brakes on	12' 3" (3.72)
	Brakes off	12' 11" (3.92)

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

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# BASE & OPTIONAL EQUIPMENT

SERVICE CAPACITIES	
Fuel tank, gal (L)	40 (151)
Hydraulic system, gal (L)	
Total	20.25 (77.0)
Reservoir w/filter	14.5 (55)
Reservoir w/o filter	14.0 (53.0)
Transmission, gal (L)	
2WD Total system	4.5 (19)
4WD Total system	5.25 (20)
4WD Front axle, qt (L)	
Differential	5.8 (5.5)
Planetaries (each)	0.75 (0.7)
Rear Axle, qt (L)	
Differential	14.4 (13.6)
Planetaries (each)	1.6 (1.5)
Engine oil w/filter, qt (L)	10.3 (9.7)
Cooling system, qt (L)	17 (16.1)

3 POINT HITCH	
Category I & II 3-point hitch	
Hydraulic lift, pitch, tilt and (2) auxiliary remote	
Variable flow from 0 to 8 gpm (0 to 30 L/min)	
485 lbs (220 kg) counterweight included with hitch	
3-point Hitch Lift Capacity	
Hitch position, in (mm)	lbs (N)
Lowest point	2,500 (11 121)
1/5	3,247 (14 444)
2/5	3,400 (15 125)
3/5	3,501 (15 574)
4/5	3,297 (14 666)
Highest point	2,984 (13 274)

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

BASE EQUIPMENT	
<p><b>ENGINE</b>            FPT FPT F5HFL413B*A            Turbocharged Aftercooled            Automatic fan belt tensioner            Integral engine oil cooling            In line fuel filter            Cooled EGR            Dual element air cleaner            120 amp alternator            685 CCA 12-volt battery            Heavy duty radiator            Diesel particulate filter muffler</p> <p><b>POWERTRAIN</b>            4WD – 2WD            4F/4R Power shuttle synchromesh transmission            Torque converter            Transmission de-clutch            Electro-hydraulic differential lock            Hydrostatic steering            Outboard wet disc brakes</p> <p><b>HYDRAULICS</b>            2 spool loader control valve            4 spool 3-point hitch control valve            Heavy-duty oil cooler            Flip forward hood            Lights:              2 halogen headlights              2 rear flood              2 rear tail and stop              2 front flashers/turn              2 rear flashers/turn</p> <p><b>OPERATOR ENVIRONMENT</b>            ROPS/FOPS canopy            Key start            Hydrostatic steering            Standard seat w/15° right, 30° right</p>	<p>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            2" (51 mm) retractable seat belt            Storage box</p> <p><b>INSTRUMENTS</b>            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            Regeneration            Turn signal indicators            Horn</p>

OPTIONAL EQUIPMENT	
<p><b>OPERATOR STATION</b>            Cab w/ Heat            Cab w/ Heat and Air Conditioning            Vinyl Suspension Seat w/ Armrest (Std. on 4 wheel drive)            Hand Throttle</p> <p><b>ENGINE</b>            Dual Batteries</p> <p><b>HYDRAULICS</b>            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</p>	<p><b>LOADER</b>            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)</p> <p><b>OTHER</b>            Drawbar            Tool Box            84" Box Scraper            Rear Counterweight (3,000 lbs)            Additional Stackable Rear Counterweights (475 lbs)            19.5 x 24 10PR Rear Tires            Wheel weights - good            Wide Seat Belt, 3" (75 mm)</p>

## Built Around You

**New Holland Construction** manufactures and markets a full line of skid steer loaders, compact track loaders, loader backhoes, tractor loaders, mini excavators and compact wheel loaders. Drawing from the strength and resources of its Fiat brand network globally, New Holland Construction delivers technological innovation and achieves the highest in safety and environmental standards. New Holland Construction customers are supported by a network of 700 dealers and more than 1,800 outlets in 100 countries.



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