

B75D

LOADER BACKHOE



REDEFINING ECONOMY CLASS

The NEW B75D loader backhoe is the economy class backhoe solution to help you get the job done. Its high-performing lift capacity, comfortable operator's platform and outstanding digging depth will increase your productivity in a wide range of work.

Any job, any terrain

Standard 4WD and a power shuttle synchromesh transmission with four forward and four reverse gears put you in control of nearly any job or terrain.

Fuel-efficient power

A simple, cost-effective Tier 4 Final solution, the 74-HP, 3.4-liter FPT engine features a Diesel Oxidation Catalyst (DOC) for increased fuel efficiency and faster response times. No fluids to add or diesel particulate filters to replace means simplified maintenance.

B75D LOADER BACKHOE SPECIFICATIONS

Engine	
Model	FPT F5HFL463A*W
Emissions Certification	Tier 4 Final
Type	Diesel, 4-stroke, turbocharged
Cylinders	4
Bore/Stroke	in. (mm) 3.9 x 4.33 (99 x 110)
Displacement	in ³ (L) 207 (3.4)
Fuel injection	Direct high pressure common rail
Fuel	Diesel
Cooling	Charged air
Engine oil	CJ-4 – semi-synthetic 10W40
Engine Speeds*	
Rated - full load	rpm 2,200
Low idle	rpm 900 - 1,000
High idle - no load	rpm 2,330 - 2,430
Horsepower @ 2200 RPM	
Gross	hp (kW) 74 (55)
Net	hp (kW) 68 (51)
Maximum Torque @ 1400 RPM	
Gross	lb.-ft. (N•m) 233 (316)
Net	lb.-ft. (N•m) 220 (298)
Torque rise at rated speed	40-35%
Pump Operating Angle Ratings	
Side-to-side	Rated 35°
Fore and aft	Rated 35°
Oil filtration	Replaceable, spin-on

Drivetrain	
Transmission – standard	4F-4R Power Shuttle Synchromesh Transmission manual gear shift fully synchronized
Travel Speeds	
1st	mph (kph) 3.9/4.6 (6.3/7.4)
2nd	mph (kph) 6.2/7.5 (10/12.1)
3rd	mph (kph) 12.9/15.4 (20.8/24.8)
4th**	mph (kph) 24.4 (NR) (39.3/NR)
Torque converter ratio	3.01:1
Drive/Steer Axle	
Differential ratio	front/rear 2.286 / 2.446
Planetary hub ratio	front/rear 6.0 / 6.9
Total reduction ratio	front/rear 13.71 / 17.07
Service brakes	Inboard wet multi-disk
Parking brakes	Mechanically actuated caliper type brake pack on rear axle input shaft

*Meets federal emission regulations.

**Travel speeds at 2330 engine rpm w/ 16.9-28 tires.

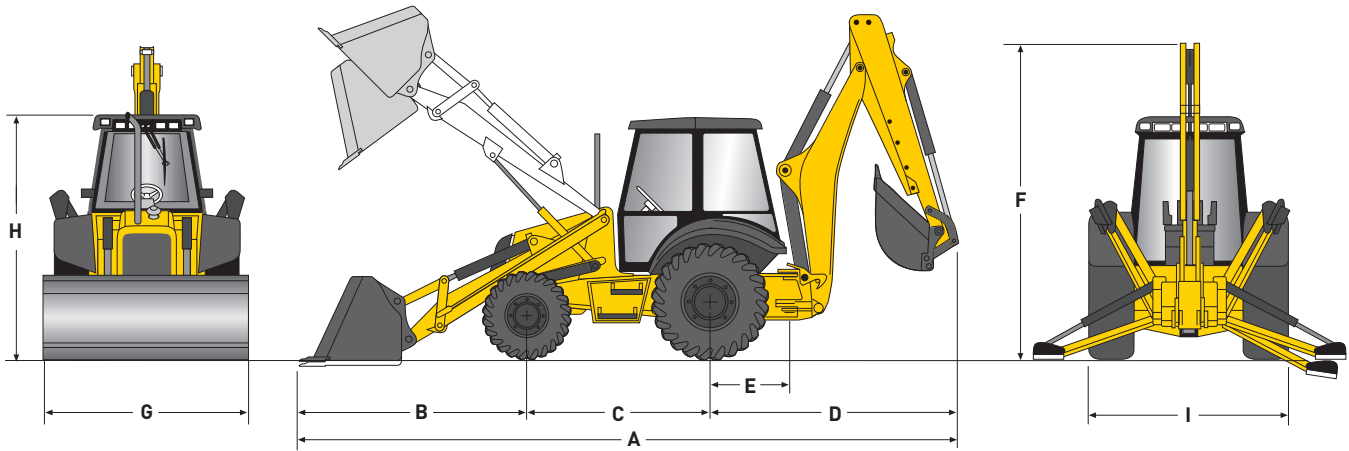
Electrical	
Voltage	12 Volts
Alternator	120 amp
Battery	950 cold-cranking amps
Power plugs – 2	30 amps total

Operator Environment	
ROPS/FOPS certified protective canopy; rearview mirrors, left and right; 4 front, 2 rear halogen work lights; 2 rear amber turn/flasher lights, wide walk-through platform; vinyl suspension seat; 2 in. seat belt	
Gauges:	Hour meter; Engine RPM; Engine coolant temperature; Transmission oil temperature; Job timer; Fuel level, Voltmeter
Warning lights:	Air cleaner restriction; Alternator; Cold start; Engine oil pressure; Hydraulic oil filter; Parking brake engagement; Engine coolant temp; Battery voltage, air conditioner system pressure
Audible alarms:	Coolant temperature; Engine oil pressure; Parking brake engagement; Converter oil temperature; Backup; Horn

Operating Weight	
Operating Weight	lbs. (kg) 18,298 (8300)

Hydraulics	
Gear pump	gpm (Lpm) 32 @ 2,200 psi (121 @ 140 bar)
Variable valve pump	gpm (Lpm) 32 @ 2,200 psi (121 @ 140 bar)
Heavy-duty hydraulic oil cooler	
7 micron, spin-on oil filter	

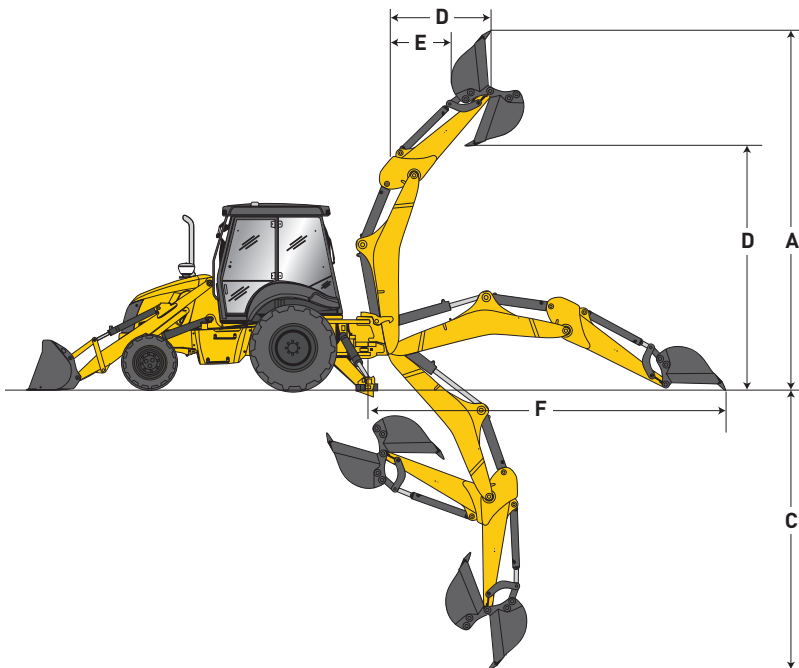
Service Capacities	
Fuel tank	gal (L) 34.6 (131)
Hydraulic system	
Tank capacity	qt. (L) 29 (27)
Transmission	
4WD:	
Total	qt. (L) 22.0 (20.8)
Reservoir	qt. (L) 15.2 (14.4)
Engine oil w/ filter	qt. (L) 12 (11.3)
Cooling system	qt. (L) 18.3 (17.3)



Machine Dimensions

A	Overall machine length	in. (mm)	284 (7224)
B	Loader Bucket Reach	in. (mm)	78 (1980)
C	Wheelbase	in. (mm)	85 (2180)
D	Backhoe Bucket Dimensions	in. (mm)	120 (3063)
E	Rear wheelbase – backhoe attachment swing support	in. (mm)	44 (1127)
F	Max machine height	in. (mm)	149 (3790)
G	Loader bucket width	in. (mm)	89 (2277)
H	Cab height	in. (mm)	112 (2850)
I	Stabilizer width (in up position)	in. (mm)	90 (2300)

All measurements are reports to a unit equipped with Standard loader bucket 1.00m³, Standard backhoe bucket 762mm, standard dipper, front tires 9x16-16PR (2WD) & 12.5-18, 12 PR (4WD) and rear tires 16.9-28, 12PR.



Backhoe Dimensions and Performance w/ Extendahoe

A	Max digging height	ft. in. (mm)	19' 11" (6089)
B	Max height at full load	ft. in. (mm)	17' 2" (5245)
C	Max digging depth	ft. in. (mm)	18' 4" (5588)
D	Digging reach at max height	ft. in. (mm)	11' 7" (3530)
E	Max reach when loaded	ft. in. (mm)	9' 5" (2870)
F	Digging radius max reach	ft. in. (mm)	22' 1" (6731)
	Digging Force Bucket Cylinder	lbf (kgf)	12,620 (5724)
	Digging Force Dipper Cylinder	lbf (kgf)	9,056 (4,107)
	Total bucket rotation	degrees	160°
	Swing arc	degrees	180°

Line drawings are for illustrative purpose only and may not be exact representation of unit.

STANDARD EQUIPMENT

Engine
FPT 3.4 L diesel
Cooled EGR
Diesel oxidation catalyst
Full flow engine oil filter
Air cleaner: Replaceable dry type with radial seal
Radiator with de-aeration bottle
Antifreeze to -34°F [-37°C]
Foot throttle
Self adjusting belt
Insulated CCV hose
Glow plugs
Block heater
Pre cleaner
Master disconnect switch
Remote jump start terminals for battery

Drivetrain
Front axle, as selected: 4WD heavy-duty outboard planetary drive, with 12.5 /80-18 IND tires
Rear axle: 4WD heavy-duty mechanically driven rear axle, with 12.9-28 Tires
4F-4R Power Shuttle Synchronesh Transmission
300 mm torque converter
Electric F/R shuttle control
Park brake, spring applied, hydraulic release
Load control

Hydraulics
1-way flow with manual controls

Operator Environment
See page 2

Backhoe
14' standard backhoe
Mechanical 2 lever controls

Loader
1 cu. meter bucket w/o edge

Other
Swing out side panel engine access
Front/rear tie downs
Front counterweight
Center pivot
Shift lever - (4) positions
Mechanical transport lock
Forward tilting hood
Reflective logos

OPTIONAL EQUIPMENT

Hydraulics
3rd spool loader hydraulics for attachments

Operator Environment
Enclosed cab: 2 door cab with HVAC, mechanical suspension vinyl seat, 180-degree swivel
Bluetooth radio kit: Available through CNH Parts. Includes radio, microphone

Backhoe
18' Extendahoe w/ pedal
Buckets: 12" HD backhoe bucket 18" HD backhoe bucket 24" HD backhoe bucket 30" HD backhoe bucket – NA with Extendahoe 36" HD backhoe bucket – NA with Extendahoe

Loader
4X1 bucket with cutting edge

Other
Fleet Force Telematics kit: Available through CNH Parts
Front fenders



Learn more at www.newholland.com

Design, materials and/or specifications are subject to change without notice and without liability therefor. Specifications are applicable to units sold in Canada, the United States, its territories and possessions, and may vary outside these areas.

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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. This is a one-person machine. Never allow riders in the cab, outside the machine, or in/on any bucket or attachment.

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