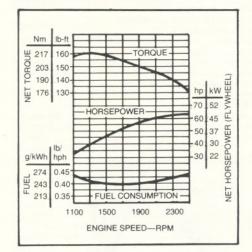


410 BACKHOE LOADER



ENGINE PERFORMANCE



FEATURES

62 SAE net hp (46.2 kW) Backhoe digging depth (ICED) 15 ft. 2 in. (4.62 m) Hydraulic direction reverser Self-adjusting wet-disk brakes Inboard planetary final drives Foot-operated differential lock Roll-over protective structure (ROPS) Choice of 2 self-leveling loader buckets Single-lever loader control Single, swing-around seat Two-lever backhoe control Choice of 10 backhoe buckets Extendable dipperstick available Power steering

410 BACKHOE LOADER SPECIFICATIONS

(Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with ICED and SAE Standards. Except where otherwise noted, these specifications are based on a unit equipped with 16.9-24, 8-ply rating rear tires; 11L-16, 10-ply-rating front tires; 1 cu. yd. (0.76 m³) loader bucket; 24 in. (610 mm) standard backhoe bucket, and standard equipment.)

Power (@ 2500 engine rpm):	SAE	DIN
Gross		
Net	62 hp (46 2 kW)	65 9 PS

Net engine flywheel power is for an engine equipped with fan, air cleaner, water pump, Iubricating oil pump, fuel pump, alternator, and muffler. Gross engine power is without fan. Flywheel power ratings are under SAE standard conditions of 500-ft. altitude and 85°F. temperature and DIN 70 020 standard conditions of 760 mm Hg barometer (sea level) and 20°C. temperature.

Engine: John Deere 4-cylinder diesel, valve-in-head, 4-stroke cycle Bore and stroke 4.02×4.33 in. (102×110 mm) Piston displacement 219 cu. in. (2.589 L) Compression ratio 16.2 to 1 Maximum torque @ 1300 rpm 160 lb-ft (217 Nm) (22.1 kg-m) NACC or AMA (U.S. Tax) horsepower 25.65 Main bearings 5 Lubrication Pressure system w/full-flow filter Cooling Pressurized w/thermostat and fixed bypass Fan Suction Air cleaner Dry Electrical system 12-volt w/alternator	
Batteries (two 6 volt) 172 amps each	
Alternator	

Engine Clutch Foot-operated automotive-type clutch with 10-in. (254 mm) plate

Transmission:

Constant mesh, 8 speeds forward, 8 reverse. Standard hydraulic direction reverser permits no-clutch reversing in all gears.

			Travel	Speeds	
Gear:		m	ph		n/h
		Fwd.	Rev.	Fwd.	Rev.
	1	1.4	1.6	2.3	2.6
	2	2.0	2.3	3.2	3.7
	3	3.0	3.5	4.8	5.6
	4	4.3	4.8	6.8	7.7
	5	5.5	6.3	8.9	10.1
	6	7.9	9.0	12.7	14.5
	7	11.7	13.5	18.8	21.7
	8	16.4	18.7	26.4	30.1

Final Drives Inboard, planetary

Brakes Hydraulically actuated, fully enclosed wet-disk. Self-equalizing. Foot-operated individually or simultaneously.

Steering . Power

 Turning radius (brake applied)
 10 ft. 2 in. (3.10 m)

 Loader clearance (brake applied)
 30 ft. (9.14 m)

 Number of turns, far left to far right
 3.3

Hydraulic System: Closed-center

..... Single-lever Loader control .

Hydraulic Cylinders:	Bore	Stroke
Loader boom	. 3.25 in. (83 mm)	28.7 in. (729 mm)
Loader bucket		16.7 in. (424 mm)
Backhoe boom		36.75 in. (932 mm)
Backhoe crowd		35.5 in. (902 mm)
Backhoe bucket		27.37 in. (695 mm)
Backhoe swing		
Stabilizer		16.94 in. (429 mm)
Cylinder rods Gro		chrome-plated, polished
Loader boom, backhoe s		
stabilizer cylinder rods		1.75 in. (44 mm) dia.
Loader bucket cylinder ro Backhoe crowd, boom an	nd bucket	1.50 in. (38 mm) dia.
cylinder rods		2.25 in. (57 mm) dia.

Tires:	Front		Rear
	-ply rating, F3 16, 10-ply rating, F3	18.4-24, 18.4-24, 19.5L-24,	8-ply-rating, R4 8-ply-rating, R4 10-ply-rating, R4 8-ply-rating, R4 8-ply-rating, R4

Wheel Treads:

F

Front		 • •	• •	 	• •		 					 		•	 61	in.	(1.55)	m)	ľ
Rear		 		 											 66	in.	(1.63	m)	ſ

	U.S.	Imp.	Liters
Cooling system	13 qt.	10.8 gt.	12.3
Fuel tank	19.5 gal.	16.3 gal.	73.8
Engine lubrication, including filter	9 qt.	7.5 qt.	8.5
Transmission and hydraulic system	20.5 gal.	17.1 gal.	77.6
Transmission only	10 gal.	8.3 gal.	37.8

OPERATING INFORMATION

LOADER:

Rollback at ground level
bucket level)
Lifting capacity, full height 5000 lb. (2268 kg)
Height to bucket hinge pin 10 ft. 9 in. (3.28 m)
Maximum dump angle
Clearance, bucket dumped at 45 degrees 8 ft. 6 in. (2.59 m)
Reach at maximum height, bucket
dumped at 45 degrees
Raising time to full height
Bucket dump time 1.3 sec.
Lowering time (power)

BACKHOE:

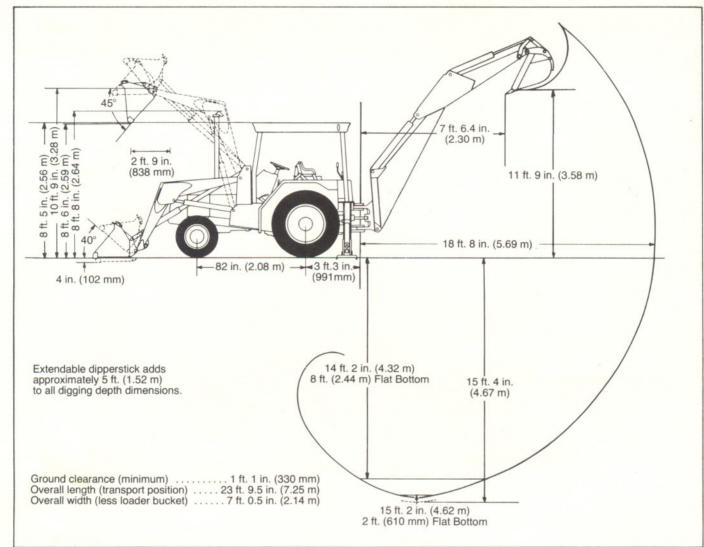
Digging depth (ICED):	
Maximum	(4.67 m)
2-ft. (610 mm) flat bottom 15 ft. 2 in.	(4.62 m)
8-ft. (2.44 m) flat bottom 14 ft. 2 in.	(4.32 m)
Swing arc	180 deg
Lifting capacity:	loo dog.
Boom at full reach and full height 1950 lb.	(884 kg)
Dipper lifting, boom holding, full height 3300 lb. (1497 kg)
Digging force (bucket cylinder in	(ior iig)
power-dig position)	4377 kg)
Digging force, crowd cylinder 7158 lb. (32.08 kN) (3247 kg)
Reach from center of swing mast	(5.69 m)
Reach from center of rear axle	(6.68 m)
Loading height (truck-loading position) 11 ft. 9 in.	(3.58 m)
Transport height	(3.53 m)
Bucket rotation Adjustable for 123, 126, or	154 deg
Bucket position Adjustable for 22 or 13 deg. rollt	
2 deg. forward	Jack anu
z dog. loinaid	

Stabilizer Width:

Transport position		 	7 ft.	3 in. (2.21 m)
Operating position	(overall)	 	. 10 ft.	2 in. (3.10 m)
Operating position	(ICED).	 	8 ft.	9 in. (2.67 m)

Buckets:	Manufact Harmond	
LOADER	Nominal Heaped Capacity	Width
	1 cu. yd. (0.76 m ³) 1¼ cu. yd. (0.96 m ³)	89.4 in. (2.27 m) 89.4 in. (2.27 m)
BACKHOE	Struck Capacity	Width
Standard	2.5 cu. ft. (0.071 m ³) 3.6 cu. ft. (0.102 m ³) 4.4 cu. ft. (0.125 m ³) 6.0 cu. ft. (0.170 m ³) 7.6 cu. ft. (0.215 m ³) 7.2 cu. ft. (0.204 m ³)	12 in. (305 mm) 16 in. (406 mm) 18 in. (457 mm) 24 in. (610 mm) 30 in. (762 mm) 36 in. (914 mm)
Heavy-duty	4.4 cu. ft. (0.125 m ³) 6.0 cu. ft. (0.170 m ³) 7.6 cu. ft. (0.215 m ³)	18 in. (457 mm) 24 in. (610 mm) 30 in. (762 mm)
Ejector	4.2 cu. ft. (0.119 m ³)	24 in. (610 mm)

410 BACKHOE LOADER DIMENSIONS



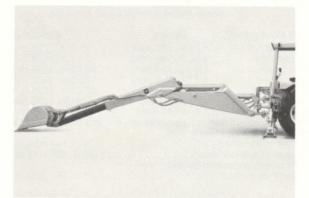
Additional Standard Equipment:

Horizontal muffler w/vertical exhaust Key switch w/push-button safety start Oil pressure indicator light Alternator charge indicator light Water temperature gauge Electric hourmeter Rigid-mount platform Differential lock Fenders Bucket level indicator Deluxe swing-around seat Foot throttle Electrically operated destroke valve for hydraulic pump Antifreeze Rear reflector Lights Cigaret lighter Transistorized voltage regulator ROPS and seat belt w/canopy Ether starting aid Tachometer Air cleaner restriction indicator Horn

SAE Operating Weight 14,120 lb. (6405 kg)

Special Equipment: Front axle counterweight

Cab w/heater, pressurizer, front and rear windshield wiper (includes ROPS) 24-in. (610 mm) ripper tooth for backhoe Bolt-on stabilizer street pads Locking instrument panel cover Parking brake Extendable dipperstick Backup alarm Reversible stabilizer pads



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