



300B LOADER

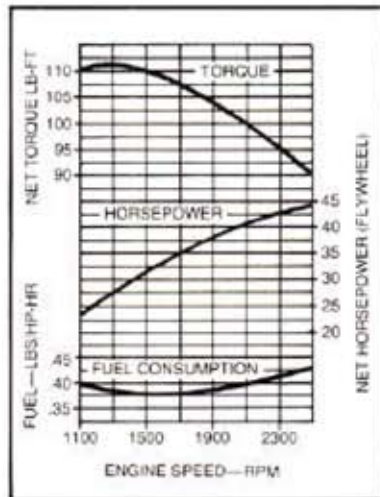
FEATURES

- 43 SAE net hp (32.1 kW)
- 8-speed transmission w/hydraulic direction reverser
- Self-adjusting wet-disk brakes
- Inboard planetary final drives
- Foot-operated differential lock
- Power steering
- Choice of 2 loader buckets
- Single-lever loader control
- Roll-over protective structure (ROPS)

ADD VERSATILITY WITH:

- Backhoe
- Mowers
- Landscape tools

ENGINE PERFORMANCE

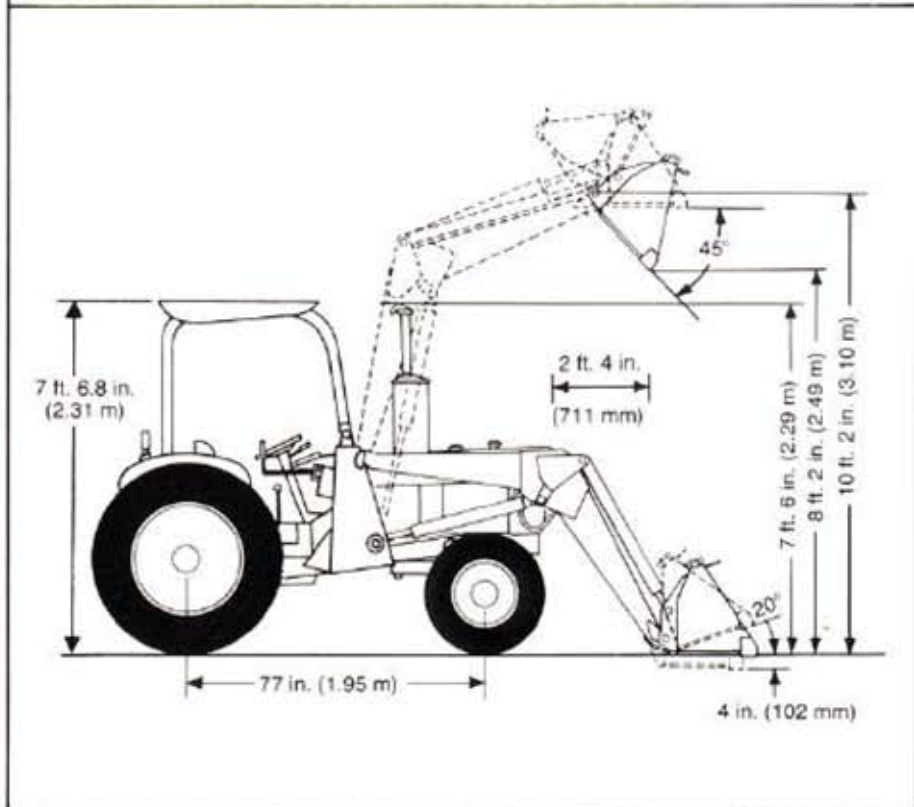


LOADER SPECIFICATIONS

Buckets:	Nominal Heaped Capacity	Width
¾ cu. yd. (0.57 m ³)	81.125 in. (2.06 m)	
1 cu. yd. (0.76 m ³)	81.125 in. (2.06 m)	

Operating Information:

- Rollback at ground level 20 deg.
- Breakout force 5000 lb. (22.41 kN) (2270 kg)
- Lifting capacity, full height 3300 lb. (1500 kg)
- Maximum dump angle 45 deg.
- Reach at maximum height, bucket dumped at 45 degrees 2 ft. 4 in. (711 mm)
- Raising time to full height 3.7 sec.
- Bucket dump time 1.6 sec.
- Lowering time (power) 2.0 sec.
- Minimum effective rear wheel counterweight required, except when used with backhoe 2000 lb. (907 kg)



300B 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 14.9-24, 6-ply-rating, R4 rear tires; 11L-15, 8-ply-rating, F-3 front tires; 34 cu. yd. (0.57 m³) utility bucket, and standard equipment.)

Power (@ 2500 engine rpm):	SAE	DIN
Gross	46 hp (34.3 kW)	
Net	43 hp (32.1 kW)	45.7 PS

Net engine flywheel power is for an engine equipped with fan, air cleaner, water pump, lubricating 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 3-cylinder diesel, valve-in-head, 4-stroke cycle

Bore and stroke	3.86×4.33 in. (98×110 mm)
Piston displacement	152 cu. in. (2.491 L)
Compression ratio	16.2 to 1
Maximum torque @ 1300 rpm	110 lb-ft (149 Nm) (15.2 kg-m)
NACC or AMA (U.S. Tax) horsepower	17.88
Main bearings	4
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 (2 12 volt)	Reserve capacity: 220 minutes

Engine Clutch Foot-operated, single 10-in. (254 mm) plate

Transmission:

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

Gear:	Travel Speeds			
	mph		km/h	
	Fwd.	Rev.	Fwd.	Rev.
1	1.3	1.6	2.1	2.6
2	1.9	2.2	3.1	3.5
3	2.9	3.3	4.7	5.3
4	4.0	4.7	6.4	7.6
5	5.3	6.2	8.5	10.0
6	7.6	8.8	12.2	14.2
7	11.2	13.0	18.0	20.9
8	15.7	18.3	25.3	29.4

Final Drives Inboard, planetary

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

Hydraulic System: Closed-center

Max. pressure	2350 psi (16 203 kPa) (165.2 kg/cm ²)
Loader control	Single-lever
Pump	Piston, constant pressure, variable-displacement, 28 gpm (1.76 L/s) at 2500 engine rpm
Filter	25-micron steel-enclosed paper cartridge in return

Hydraulic Cylinders:	Bore	Stroke
Boom	2.75 in. (70 mm)	28.33 in. (720 mm)
Bucket	2.5 in. (64 mm)	27.25 in. (692 mm)
Cylinder rods	Ground, heat-treated, chrome-plated, polished	
		1.5-in. (38 mm) dia.

Steering	Power
Turning radius (brake applied)	10 ft. 1 in. (3.07 m)
Loader clearance (brake applied)	29 ft. 6 in. (8.99 m)
Number of turns, far left to far right	3.3

Tires:	Front	Rear
	11L-15, 8-ply-rating, F3	14.9-24, 6-ply-rating, R3
		14.9-24, 6-ply-rating, R4
	7.50/8.00-16, 10-ply-rating, F3	17.5L-24, 8-ply-rating, R4

Wheel Treads:

Front	62 in. (1.57 m)
Rear	60 in. (1.52 m)

Dimensions:

Height to top of hood	4 ft. 7 in. (1.40 m)
Overall width w/o bucket	6 ft. 3 in. (1.91 m)
Overall length	14 ft. 5 in. (4.47 m)
Ground clearance (under front axle)	1 ft. 5.25 in. (438 mm)
Ground clearance, min.	12 in. (305 mm)
Overall length w/3-pt. hitch	15 ft. 4.2 in. (4.68 m)

Capacities:

	U.S.	Imp.	Liters
Cooling system	3 gal.	2.5 gal.	11.4
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	10 gal.	8.3 gal.	37.9
Loader hydraulic system	2.5 gal.	2.1 gal.	9.5

Additional Standard Equipment:

- Oil pressure indicator light
- Alternator charge indicator light
- Water temperature gauge
- Key switch safety start
- Lights
- Differential lock
- Foot throttle
- Bucket-level indicator
- Fuel gauge
- Antifreeze
- Vertical muffler w/rain cap
- Transistorized voltage regulator
- Fenders
- Fuel filter
- Cushioned seat
- Tachometer/hourmeter
- Air cleaner restriction indicator
- Cigaret lighter
- Ether starting aid
- Horn

SAE Operating Weight 7450 lb. (3379 kg)

Special Equipment

- Backhoe
- Collar shift transmission
- Counterweights w/bracket (w/o 3-point hitch or remote cylinder)
- Deluxe seat
- Front axle counterweights
- Front grille guard
- Parking brake
- Rear PTO (continuous "live" 540 rpm)
- Rear wheel weights
- ROPS w/canopy and seat belt
- Single remote hydraulic cylinder control w/quick-disconnect coupler
- Swinging drawbar
- 3-inch (76 mm) seat belt
- 3-point hitch (Category 1 or 2 w/sway blocks and regular or short links)