



302A LOADER

FEATURES

50 SAE net hp (37.3 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)

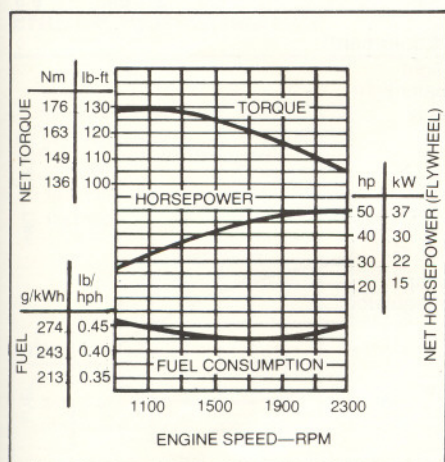
ADD VERSATILITY WITH:

Backhoe

Mowers

Landscape tools

ENGINE PERFORMANCE

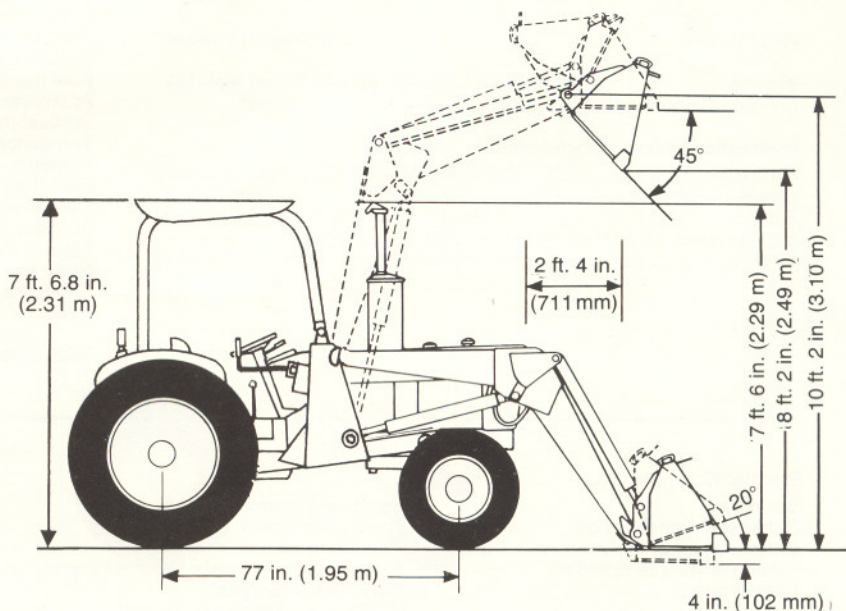


LOADER SPECIFICATIONS

Buckets:	Nominal Heaped Capacity	Width
¾ cu. yd. (0.57 m³)		81.125 in. (2.06 m)
1 cu. yd. (0.76 m³)		81.125 in. (2.06 m)

Operating Information:

Breakout force 5000 lb. (22.41 kN) (2270 kg)
 Digging depth below ground level
 (w/bucket level) 4 in. (102 mm)
 Lifting capacity, full height 3300 lb. (1500 kg)
 Height to bucket hinge pin 10 ft. 2 in. (3.10 m)
 Clearance, bucket dumped at
 45 degrees 8 ft. 2 in. (2.49 m)
 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)



302A 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, F3 front tires; $\frac{3}{4}$ cu. yd. (0.57 m³) utility bucket, and standard equipment.)

Power (@ 2500 engine rpm):

	SAE	DIN
Gross	52 hp (38.8 kW)	
Net	50 hp (37.3 kW)	53.2 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	4.02×4.33 in. (102×110 mm)
Piston displacement	164 cu. in. (2.688 L)
Compression ratio	16.2 to 1
Maximum torque @ 1300 rpm	129 lb-ft (175 Nm) (17.8 kg-m)
NACC or AMA (U.S. Tax) horsepower	19.4
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 (two 12 volt)	
72 amps each	Reserve capacity: 220 minutes
Alternator	35 amps

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

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
7.50/8.00-16, 10-ply-rating, F3	14.9-24, 6-ply-rating, R3
11L-15, 8-ply-rating, F3	14.9-24, 6-ply-rating, R4
	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
Air cleaner restriction indicator
Cigaret lighter
Ether starting aid
Speed-hourmeter
Horn

SAE Operating Weight 7550 lb. (3425 kg)

Special Equipment

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