

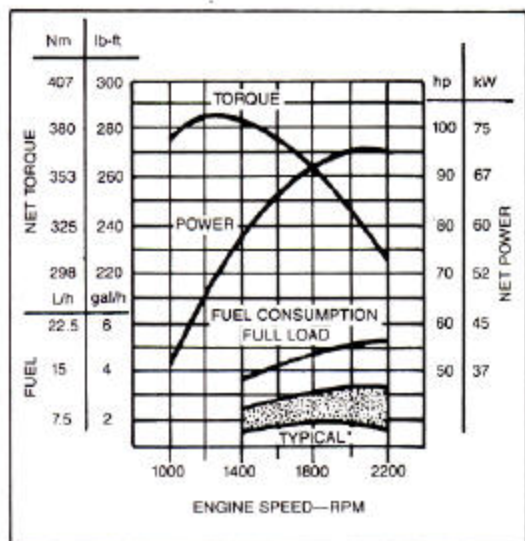


444E LOADER WITH COUPLER



Model shown includes optional and allied equipment

ENGINE PERFORMANCE



*Depending on operating variables

FEATURES

- 95 SAE net hp (71 kW) John Deere turbocharged diesel engine
- Four-wheel drive
- Hi-Lo powershift transmission with variable speed hydrostatics
- Power steering. Articulated frame
- Four-wheel wet-disk power brakes and parking brake
- Inboard planetary final drives
- Single-lever or optional two-lever control with automatic return-to-dig and boom height control
- Rollover protective structure (ROPS) with canopy. Meets criteria of SAE J394, SAE J1040A, and ISO 3471. Also meets FOPS (falling object protective structure) criteria SAE J231 and ISO 3449.
- NoSPIN front differential
- Vandal protection
- Manual or optional hydraulic Quik-Tatch coupler

ADD VERSATILITY WITH:

- Forks
- Material handling arm
- Blades
- Feller-bunchers
- Shears
- Multipurpose buckets
- Side-dump bucket
- Snow blowers
- Snow plows
- Sweepers
- Special buckets

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444E LOADER WITH COUPLER SPECIFICATIONS

Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with SAE Standards. Except where otherwise noted, specifications are based on a machine with all standard equipment, 15.5-25, 10 PR, L2 tires, with 940-lb. (426 kg) CaCl₂ solution in rear tires, ROPS cab, full fuel tank, and 175-lb. (80 kg) operator.

Rated Power @ 2200 engine rpm:	SAE	DIN 70 020
Net	95 hp (71 kW)	71 kW
Gross	100 hp (75 kW)	

Net engine power is with standard equipment including air cleaner, exhaust system, alternator and cooling fan, at standard conditions per SAE J1349 and DIN 70 020, using No. 2-D fuel @ 35 API gravity. No derating is required up to 10,000 feet (3050 m) altitude. Gross power is without cooling fan.

Engine: John Deere 4-276T

Type	4-stroke cycle, turbocharged diesel	
Bore and stroke	4.19 x 5.00 in. (106.5 x 110 mm)	
No. of cylinders	4	
Displacement	276 cu. in. (4.523 L)	
Maximum net torque @ 1300 rpm	284 lb-ft (385 Nm) (39.4 kg-m)	
Cooling fan	Blower	
Air cleaner w/restriction indicator	Dry type	
Electrical system	12 volt w/65-amp alternator	
Batteries (one 12 volt)		
25 amps at 80°F (27°C)	Reserve capacity: 166 min. each	
BCI group 27 cold cranking capacity at -0°F (-18°C)	653 amp	

Transmission

Hi-Lo power shift with variable speed hydrostatics. Hydrostatic flow and pressure is automatically proportioned to meet operating conditions.

Forward and Reverse Speeds:	mph (max.)	km/h (max.)
1	7.5	12.1
2	20.0	32.2

Differentials:

Front NoSPIN and rear conventional

Drive Axles

Inboard-mounted planetary gears to each wheel. Front axle fixed. Rear axle oscillates 26 degrees total (16.4 in. [416 mm] vertical travel at center of tire).

Steering	Full power steering.	
Frame articulated 80 degrees by two hydraulic cylinders.		
Turning radius (measured to centerline of outside tire)	15 ft. 0 in. (4.57 m)	
Cylinder size: Stroke	15.0 in. (382 mm)	
Rod diameter	1.38 in. (35 mm)	
Bore	2.56 in. (65 mm)	

Brakes:

Service

Power-actuated, 4-wheel inboard-mounted, wet disk. Foot-operated by either pedal.

Parking

2.75 x 2.75 in. (70 x 70 mm) caliper disk on front drive line, hand-operated. Includes transmission disconnect with two level monitor warning.

Hydraulic Systems:

Steering and loader functions

An engine drive gear-type pump delivers 38.8 gpm (147 L/min) at 600 psi (4137 kPa) (42.2 kg/cm²) and 2200 engine rpm. Loader function relief valve pressure setting is 2987 psi (20 594 kPa) (210 kg/cm²). Maximum steering pressure is 2500 psi (17 238 kPa) (175 kg/cm²).

Control

Single-lever or optional two lever, dual hydraulic valve. Optional triple hydraulic valve for fork or multipurpose bucket.

Brakes

Engine-driven, gear-type pump delivers 5.86 gpm (22 L/min) at 2200 engine rpm and 600 psi (4137 kPa) (42.2 kg/cm²). Maximum system pressure is 2275 psi (15 686 kPa) (160 kg/cm²).

Loader hydraulic operating cycle times at full throttle:	
Raise	5.3 sec.
Dump	1.0 sec.
Lowering: float	3.4 sec.
power	3.1 sec.

Maximum lift capacity with 1.75 cu. yd. (1.4 m³) excavating bucket:

Maximum height	8456 lb. (3835 kg)
Ground level	17,488 lb. (7931 kg)

Hydraulic Cylinders:	Bore	Stroke
Boom, two	4.33 in. (110 mm)	26.97 in. (685 mm)
Bucket, one	4.72 in. (120 mm)	19.69 in. (500 mm)
Cylinder rods	Ground, heat-treated, chrome-nickel-plated polished	
Boom cylinder rods	2.36 in. (60 mm) dia.	
Bucket cylinder rod	2.56 in. (65 mm) dia.	

Tires — choice of:

15.5-25, 10 PR, loader tread, L2
17.5-25, 12 PR, loader tread, L2

Capacities:

	U.S.	Liters
Fuel tank	37 gal.	140
Cooling system	36 qt.	34
Crankcase	13 qt.	12
Crankcase, including filter	14 qt.	13
Transmission case and filters	6.5 qt.	6
Front differential	17 qt.	16
Rear differential	17 qt.	16
Loader hydraulic sump	53 qt.	50
Hydrostatic transmission sump	25 qt.	24

Additional Standard Equipment:

Differential, conventional, front and rear	Automatic return-to-dig
Engine:	Operator's station:
Alternator — 65 amp	Adjustable, deluxe vinyl seat w/armrests
Antifreeze	Cigarette lighter w/ashtray
Cold weather (ether) starting aid	Dual inside rearview mirrors
Fan guard	Dual level monitor system:
Fuel filter	Two level warnings:
Muffler	Engine coolant temperatur
Precleaner and dry type air cleaner	Parking brake on
Frames:	Secondary steering (optional)
Articulation transport lock	Single-level warnings:
Drawbar	Air filter restricted
Lift hooks	Hydraulic filter restricted
Lockable engine side shields and	Low brake pressure
Rear bottom guard	Low electrical voltage
Service steps, left-hand rear	Low engine oil pressure
Hydraulics:	Low transmission oil pressure
Hydraulic oil cooler	Indicator only:
Hydrostatic transmission oil cooler	Turn signals
Powershift transmission oil cooler	Floor mat
Lights:	Hand grips
Driving w/guard	Horn
Flashing and turn signal	Instruments:
Stop and tail	Electric hourmeter
Loader:	Fuel gauge
Automatic boom height control	Key switch
	ROPS canopy w/two-inch (51 mm) seat belt
	Reverse warning alarm
	Vandal protection

Optional or Special Equipment:

Buckets:	Lights:
Bolt-on cutting edges	Front and rear work
Bucket teeth	Operator's station:
Engine:	Mirrors, outside
Additional battery	Radio — AM/FM for cab
Engine coolant heater	ROPS cab w/heater-defroster-pressurizer, dome light, front and rear windshield wiper and washer, 90-amp alternator
Water separator, fuel	ROPS cab w/air conditioning, heater/defroster/pressurizer, dome light, front and rear windshield wiper and washer, 90-amp alternator
Frames:	Seats:
Auxiliary bottom guards, transmission and front frame	Adjustable deluxe suspension vinyl seat w/armrests
License plate bracket	Adjustable deluxe suspension cloth seat w/armrests for cab
Rear counterweight (1 or 2) SMV emblem	Secondary steering
Front axle disconnect	Three-inch (76 mm) seat belt
Hydraulics:	
Two spool valve w/single-lever control	
Two spool valve w/two-lever control	
Three spool valve, single-lever control w/auxiliary control lever for third function	
Three spool valve, two-lever control w/auxiliary control lever for third function	

OPERATING INFORMATION		GENERAL PURPOSE BUCKETS			
Capacity, heaped, SAE	1.5 cu. yd.* (1.2 m ³)	1.75 cu. yd.* (1.4 m ³)	2.0 cu. yd.* (1.5 m ³)	2.25 cu. yd. (1.7 m ³)	
Capacity, struck, SAE	1.20 cu. yd. (0.92 m ³)	1.53 cu. yd. (1.17 m ³)	1.80 cu. yd. (1.38 m ³)	1.91 cu. yd. (1.46 m ³)	
Bucket width	95.3 in. (2.42 m)	95.3 in. (2.42 m)	95.3 in. (2.42 m)	95.3 in. (2.42 m)	
Breakout force SAE J732C	18,654 lb. (83.0 kN) (8460 kg)	16,950 lb. (75.4 kN) (7687 kg)	16,919 lb. (75.2 kN) (7673 kg)	14,908 lb. (66.3 kN) (6761 kg)	
Tipping load, straight	13,704 lb. (6215 kg)	13,512 lb. (6128 kg)	13,387 lb. (6071 kg)	13,210 lb. (5991 kg)	
Tipping load, 40 deg. full turn, SAE	11,907 lb. (5400 kg)	11,726 lb. (5318 kg)	11,612 lb. (5266 kg)	11,446 lb. (5191 kg)	
Reach at 45 deg. dump 7 ft. (2.13 m) clearance	54.3 in. (1379 mm)	55.6 in. (1411 mm)	55.6 in. (1411 mm)	57.3 in. (1456 mm)	
Reach at 45 deg. dump, full height	34.2 in. (868 mm)	36.5 in. (927 mm)	36.5 in. (927 mm)	40.0 in. (1015 mm)	
Dump clearance at 45 deg. dump, full height	110.1 in. (2796 mm)	108.1 in. (2747 mm)	108.1 in. (2747 mm)	105.2 in. (2673 mm)	
Overall length	20 ft. 8.6 in. (6.31 m)	20 ft. 11.6 in. (6.39 m)	20 ft. 11.6 in. (6.39 m)	21 ft. 4.3 in. (6.51 m)	
Loader clearance circle bucket in carry position	34 ft. 5.8 in. (10.51 m)	34 ft. 7 in. (10.55 m)	34 ft. 7 in. (10.55 m)	35 ft. 2.7 in. (10.74 m)	
Operating weight	19,444 lb. (8818 kg)	19,534 lb. (8859 kg)	19,596 lb. (8887 kg)	19,655 lb. (8914 kg)	

All information is based on machine with all standard equipment. 15.5-25, 10 PR, L2 tires, with 940-lb. (426 kg) CaCl₂ solution in rear tires, ROPS cab, full fuel tank and 175-lb. (80 kg) operator. Operating information is affected by tire size, ballast and attachments. For selected items, add or subtract the following:

Adjustments to operating weights and tipping loads for 1.75 cu. yd. (1.4 m³) general purpose bucket and 48-in. (1219 mm) pallet fork.

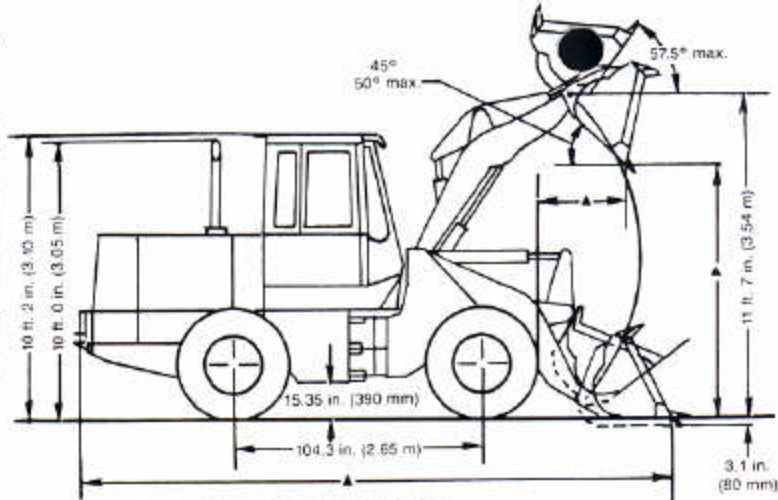
Add (+) or deduct (-) lb. (kg) as indicated for machines with:	Loader Operating Weight	Bucket*		Fork*	
		Straight	Full Turn	Straight	Full Turn
15.5-25, 10 PR, L2 without CaCl ₂	- 940 lb. (426 kg)	- 1319 lb. (598 kg)	- 1151 lb. (522 kg)	- 893 lb. (405 kg)	- 781 lb. (354 kg)
17.5-25, 12 PR, L2 with CaCl ₂	+ 593 lb. (269 kg)	+ 584 lb. (265 kg)	+ 512 lb. (232 kg)	+ 395 lb. (179 kg)	+ 346 lb. (157 kg)
17.5-25, 12 PR, L2 without CaCl ₂	- 587 lb. (266 kg)	- 1072 lb. (486 kg)	- 935 lb. (424 kg)	- 725 lb. (329 kg)	- 633 lb. (287 kg)
ROPS canopy in lieu of ROPS cab	- 265 lb. (120 kg)	- 229 lb. (104 kg)	- 183 lb. (83 kg)	- 154 lb. (70 kg)	- 123 lb. (56 kg)
1st optional counterweight	+ 617 lb. (280 kg)	+ 1327 lb. (602 kg)	+ 1089 lb. (494 kg)	+ 900 lb. (408 kg)	+ 739 lb. (335 kg)
**1st and 2nd optional counterweight	+ 1147 lb. (520 kg)	+ 2481 lb. (1125 kg)	+ 2035 lb. (923 kg)	+ 1680 lb. (762 kg)	+ 1378 lb. (625 kg)

* Allied equipment ordered through John Deere dealer.

** Not to be used with CaCl₂.

444E LOADER WITH COUPLER DIMENSIONS

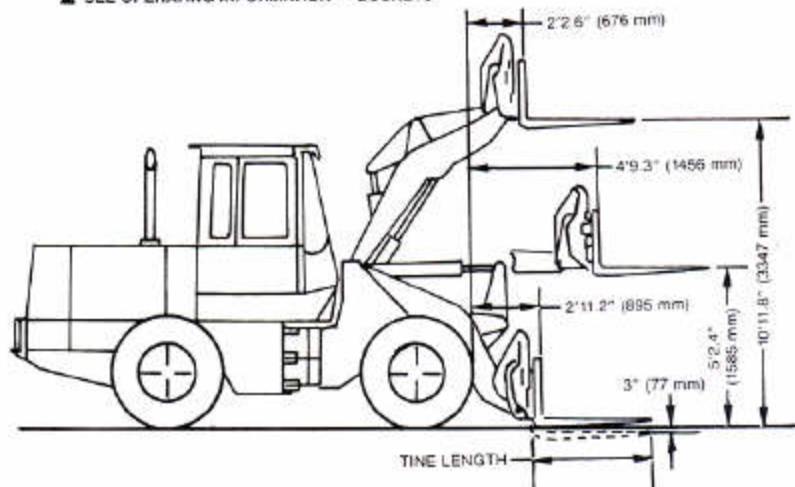
Size	TIRES	
	15.5-25	17.5-25
Tread width	72.83 in. (1850 mm)	72.83 in. (1850 mm)
Width over tires	88.35 in. (2244 mm)	90.35 in. (2295 mm)
Change in vertical height	0	+ 1.61 in. (41 mm)



▲ SEE OPERATING INFORMATION — BUCKETS

OPERATING INFORMATION — PALLET FORK*

Tine length	48 in. (1219 mm)	54 in. (1372 mm)	60 in. (1534 mm)
Ground to top of tine clearance	10 ft. 11.8 in. (3347 mm)	10 ft. 11.8 in. (3347 mm)	10 ft. 11.8 in. (3347 mm)
Max. reach with fork level	4 ft. 9.3 in. (1456 mm)	4 ft. 9.3 in. (1456 mm)	4 ft. 9.3 in. (1456 mm)
Overall length	23 ft. 1.4 in. (7047 mm)	23 ft. 7.4 in. (7199 mm)	24 ft. 1.4 in. (7352 mm)
Tipping load, straight (fork level, load centered on tine)	9065 lb. (4111 kg)	8622 lb. (3910 kg)	8220 lb. (3728 kg)
Tipping load, 40-deg. full turn (fork level, load centered on tine)	7856 lb. (3563 kg)	7471 lb. (3388 kg)	7118 lb. (3228 kg)
Operating weight	19,338 lb. (8770 kg)	19,380 lb. (8789 kg)	19,419 lb. (8807 kg)



OPERATING INFORMATION — MATERIAL HANDLING ARM*

Boom position	Retracted	Mid-position	Extended
Operating load	2256 lb. (1023 kg)	1755 lb. (796 kg)	1524 lb. (691 kg)
Tipping load, straight	5925 lb. (2687 kg)	4613 lb. (2092 kg)	4004 lb. (1816 kg)
Tipping load, 40-deg. full turn	5133 lb. (2328 kg)	3993 lb. (1811 kg)	3464 lb. (1571 kg)
Operating weight	19,144 lb. (8682 kg)	19,144 lb. (8682 kg)	19,144 lb. (8682 kg)

*Allied Equipment ordered through John Deere dealer

