

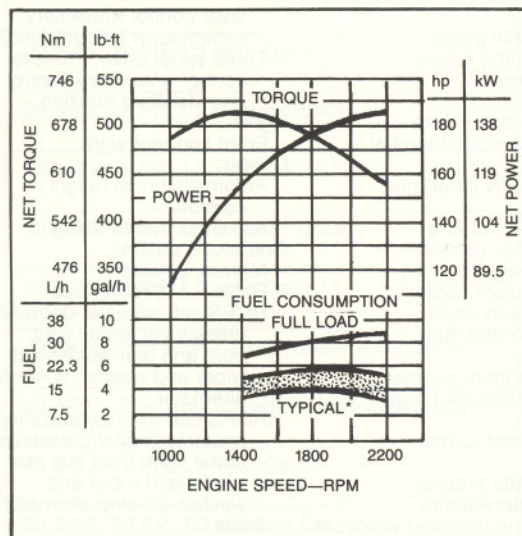


644E-H LOADER



Model shown may include options

ENGINE PERFORMANCE



*Depending on operating variables

FEATURES

185 SAE net hp (138 kW) John Deere turbocharged diesel engine

Four-wheel drive

3.75 or 4.0 cu. yd. (2.8 or 3.1 m³) general purpose buckets or 3.5 cu. yd. (2.7 m³) multipurpose bucket

Single-phase, single-stage torque converter with countershaft, Power Shift transmission, 4 speeds forward, 3 reverse

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 optional automatic return-to-dig and optional boom height control

Optional front axle hydraulic differential lock or NoSPIN front differential

Optional vandal protection

Rollover protective structure (ROPS) with canopy. Meets criteria of SAE J394a, SAE J1040 APR88, OSHA 1926.1001, and ISO 3471. Also meets FOPS (falling object protective structure) criteria SAE J231 JAN 81 and ISO 3449.

ADD VERSATILITY WITH:

Auxiliary bucket spill guard

Auxiliary bucket skid shoes

Bolt-on cutting edge

Bucket teeth

Coupler system

Forks

Side-dump bucket

Snow plows

Special buckets

644E-H LOADER 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, 23.5-25, 12 PR, L2 tires, two batteries, ROPS cab, full fuel tank, and 175 lb. (80 kg) operator.

Rated Power @ 2200 rpm:	SAE	DIN 70 020
Net	185 hp (138 kW)	138 kW
Gross	193 hp (144 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 6076A

Type	4-stroke cycle, turbocharged aftercooled diesel
Bore and stroke	4.56 x 4.75 in. (116 x 121 mm)
No. of cylinders	6
Displacement	466 cu. in. (7.636 L)
Maximum net torque @ 1400 rpm ..	520 lb-ft (705 Nm) (71.8 kg-m)
Cooling fan	Blower
Air cleaner w/restriction indicator ..	Dry
Electrical system	12 volt w/65-amp alternator
Batteries (two 12 volt)	
25 amps at 80°F (27°C)	Reserve capacity: 160 min. each
BCI group 31 cold cranking	
capacity at 0°F (-18°C)	925 amp

Torque Converter:

Type	Single phase-single stage
Torque multiplication	3.06 to 1

Transmission

Countershaft, Power Shift

Forward Speeds:

	mph	km/h
1	4.8	7.7
2	7.6	12.2
3	16.4	26.4
4	25.5	41.0

Reverse Speeds:

1	4.8	7.7
2	7.6	12.2
3	16.4	26.4

Differentials - choice of:

Front and rear conventional
 Front hydraulic differential lock and rear conventional
 Front NoSPIN and rear conventional

Drive Axles

Inboard-mounted planetary gears to each wheel. Front axle fixed. Rear axle oscillates 26-degrees total (36.1 in. [916 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)	17 ft. 9 in. (5.42 m)
Cylinder size: Stroke	19.45 in. (494 mm)
Bore	3.54 in. (90 mm)
Rod diameter	1.77 in. (45 mm)

Brakes:

Service

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

Parking

9.84 x 2.36 in. (250 x 60 mm) expanding shoe on transmission, output shaft, foot-operated. Includes transmission disconnect with 2-level monitor warning.

Hydraulic Systems:

Steering and loader functions

An engine-driven gear-type pump delivers 65.5 gpm (248 L/min) at 600 psi (4137 kPa) (42.2 kg/cm²) and 2200 engine rpm. Loader function relief valve pressure setting is 2850 psi (19 651 kPa) (200.4 kg/cm²). The maximum steering pressure is 2600 psi (17 927 kPa) (182.7 kg/cm²). Control .. Single-lever or optional dual-lever, dual hydraulic valve. Optional triple hydraulic valve for fork or multipurpose bucket.

Brakes

An engine-driven, axial piston pump delivers 8.1 gpm (31 L/min) at 2200 engine rpm and 600 psi (4137 kPa) (42.2 kg/cm²). Maximum system pressure is 2300 psi (15 859 kPa) (161.7 kg/cm²).

Loader hydraulic operating cycle times at full throttle:

Raise	6.2 sec.
Dump	1.9 sec.
Lowering: float	3.5 sec.
power	4.5 sec.
Maximum lift capacity with 4.0 cu. yd. (3.1 m ³) excavating bucket	
Maximum height	16,123 lb. (7313 kg)
Ground level	27,851 lb. (12 631 kg)

Hydraulic Cylinders:	Bore	Stroke
Boom, two	6.30 in. (160 mm)	26.77 in. (680 mm)
Bucket, one	7.09 in. (180 mm)	24.45 in. (621 mm)
Cylinder rods	Ground, heat-treated, chrome-plated, polished	
Boom cylinder rods	3.15 in. (80 mm) dia.	
Bucket cylinder rod	3.15 in. (80 mm) dia.	

Tires — choice of:

20.5-25, 12 PR, loader tread, L2
 20.5-25, 16 PR, loader tread, L2
 20.5-25, 16 PR, rock tread, L3
 20.5 R25, One Star, L2 equivalent
 23.5-25, 12 PR, loader tread, L2
 23.5-25, 20 PR, rock tread, L3

Capacities:

	U.S.	Liters
Fuel tank	75 gal.	284
Cooling system	30 qt.	28.5
Crankcase	23 qt.	22
Crankcase, including filter	25 qt.	24
Transmission case and filters	14 qt.	13
Front differential	24 qt.	23
Rear differential	24 qt.	23
Loader hydraulic sump	120 qt.	115

Additional Standard Equipment:

Differential, conventional, front and rear

Engine:

- Antifreeze
- Fan guard
- Fuel filter
- Heavy-duty battery package w/two batteries
- Muffler

Frames:

- Articulation transport lock
- Drawbar
- Lockable engine side shields and rear grille
- Rear bottom guard
- Service step, left-hand rear
- Standard counterweights, 910 lb. (413 kg) and 1138 lb. (516 kg)

Hydraulic oil cooler

Lights:

- Driving w/guard
- Flashing and turn signal
- Stop and tail

Operator's station:

- Adjustable, deluxe vinyl seat
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- Dual level monitor system: Two level warnings:

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644E-H LOADER OPERATING INFORMATION

OPERATING INFORMATION	Bucket Type		
	General Purpose	General Purpose*	Multipurpose*
Capacity, heaped, SAE	3.75 cu. yd. (2.8 m ³)	4.0 cu. yd. (3.1 m ³)	3.5 cu. yd. (2.68 m ³)
Capacity, struck, SAE	3.16 cu. yd. (2.42 m ³)	3.63 cu. yd. (2.79 m ³)	2.94 cu. yd. (2.25 m ³)
Bucket width	114 in. (2.90 m)	114 in. (2.90 m)	114 in. (2.90 m)
Breakout force, SAE J732C	34,257 lb. (152.4 kN) (15 536 kg)	35,048 lb. (155.9 kN) (15 895 kg)	31,926 lb. (142.0 kN) (14 479 kg)
Tipping load, straight	29,435 lb. (13 352 kg)	29,002 lb. (13 155 kg)	25,435 lb. (11 537 kg)
Tipping load, 40-deg. full turn, SAE	24,848 lb. (11 269 kg)	24,414 lb. (11 072 kg)	21,194 lb. (9612 kg)
Reach at 45-deg. dump, 7 ft. (2.13 m) clearance	61.81 in. (1570 mm)	60.70 in. (1542 mm)	61.77 in. (1569 mm)
Reach at 45-deg. dump, full height	39.50 in. (1003 mm)	37.74 in. (959 mm)	40.43 in. (1027 mm)
Dump clearance at 45-deg. dump, full height	114.6 in. (2911 mm)	115.9 in. (2944 mm)	112.7 in. (2863 mm)
Overall length	25 ft. 9.1 in. (7.85 m)	25 ft. 7.1 in. (7.80 m)	26 ft. 1.7 in. (7.97 m)
Loader clearance circle, bucket in carry position	41 ft. 7.3 in. (12.68 m)	42 ft. 2.8 in. (12.87 m)	42 ft. 8 in. (13.00 m)
Operating weight	35,306 lb. (16 015 kg)	35,820 lb. (16 248 kg)	37,432 lb. (16 979 kg)

* Allied equipment ordered through John Deere dealer

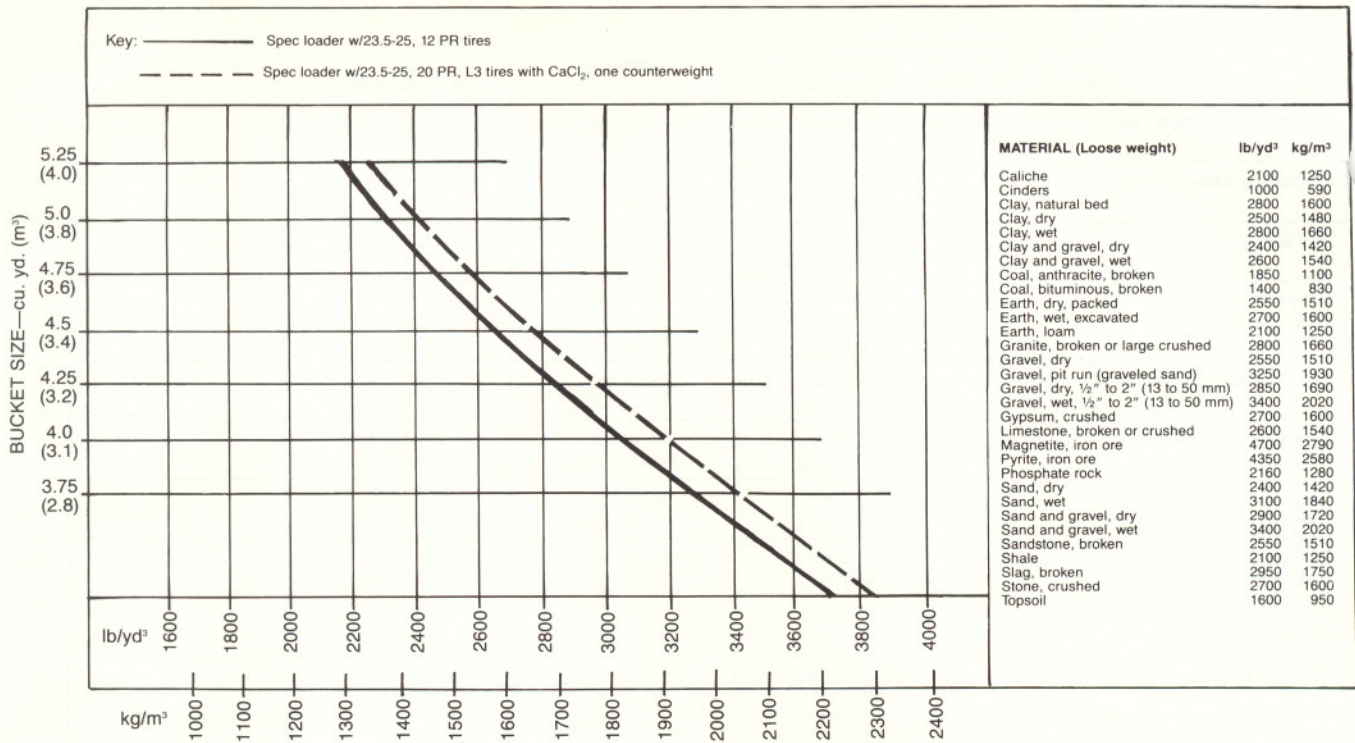
Loader operating information is based on machine with all standard equipment, 23.5-25, 12 PR, L2 tires, two batteries, ROPS cab, full fuel tank and 175-lb. (80 kg) operator. Operating information is affected by tire size, ballast and attachments. For selected items, add or subtract the following:

Adjustments to operating weights and tipping loads for 4.0 cu. yd. (3.1 m³) general purpose bucket

Add (+) or deduct (-) lb. (kg) as indicated for loaders with:	Loader Operating Weight	Tipping Load Straight	Tipping Load 35° Turn	Tipping Load 40° Full Turn, SAE
20.5-25, 12 PR, L2 without CaCl ₂	- 1587 lb. (720 kg)	- 1142 lb. (518 kg)	- 1014 lb. (460 kg)	- 985 lb. (447 kg)
20.5-25, 12 PR, L2 with CaCl ₂ **	+ 234 lb. (106 kg)	+ 1477 lb. (670 kg)	+ 1316 lb. (597 kg)	+ 1276 lb. (579 kg)
20.5-25, 16 PR, L2 without CaCl ₂	- 1499 lb. (680 kg)	- 1078 lb. (489 kg)	- 959 lb. (435 kg)	- 930 lb. (422 kg)
20.5-25, 16 PR, L2 with CaCl ₂ **	+ 322 lb. (146 kg)	+ 1541 lb. (699 kg)	+ 1373 lb. (623 kg)	+ 1332 lb. (604 kg)
20.5-25, 16 PR, L3 without CaCl ₂	- 1235 lb. (560 kg)	- 886 lb. (402 kg)	- 789 lb. (358 kg)	- 767 lb. (348 kg)
20.5-25, 16 PR, L3 with CaCl ₂ **	+ 586 lb. (266 kg)	+ 1731 lb. (785 kg)	+ 1543 lb. (700 kg)	+ 1497 lb. (679 kg)
20.5R25, One Star, L2 equivalent without CaCl ₂	- 1120 lb. (508 kg)	- 805 lb. (365 kg)	- 717 lb. (325 kg)	- 694 lb. (315 kg)
20.5R25, One Star, L2 equivalent with CaCl ₂ **	+ 701 lb. (318 kg)	+ 1812 lb. (822 kg)	+ 1616 lb. (733 kg)	+ 1567 lb. (711 kg)
23.5-25, 12 PR, L2 with CaCl ₂ **	+ 2396 lb. (1087 kg)	+ 3446 lb. (1563 kg)	+ 3069 lb. (1392 kg)	+ 2978 lb. (1351 kg)
23.5-25, 20 PR, L3 without CaCl ₂	+ 494 lb. (224 kg)	+ 355 lb. (161 kg)	+ 317 lb. (144 kg)	+ 309 lb. (140 kg)
23.5-25, 20 PR, L3 with CaCl ₂ **	+ 2890 lb. (1311 kg)	+ 3801 lb. (1724 kg)	+ 3386 lb. (1536 kg)	+ 3285 lb. (1490 kg)
ROPS canopy in lieu of ROPS cab	- 320 lb. (145 kg)	- 302 lb. (137 kg)	- 282 lb. (128 kg)	- 278 lb. (126 kg)
Bucket teeth	+ 262 lb. (119 kg)	- 331 lb. (150 kg)	- 326 lb. (148 kg)	- 324 lb. (147 kg)
Without second counterweight	- 1138 lb. (516 kg)	- 2626 lb. (1191 kg)	- 2246 lb. (1019 kg)	- 2156 lb. (978 kg)

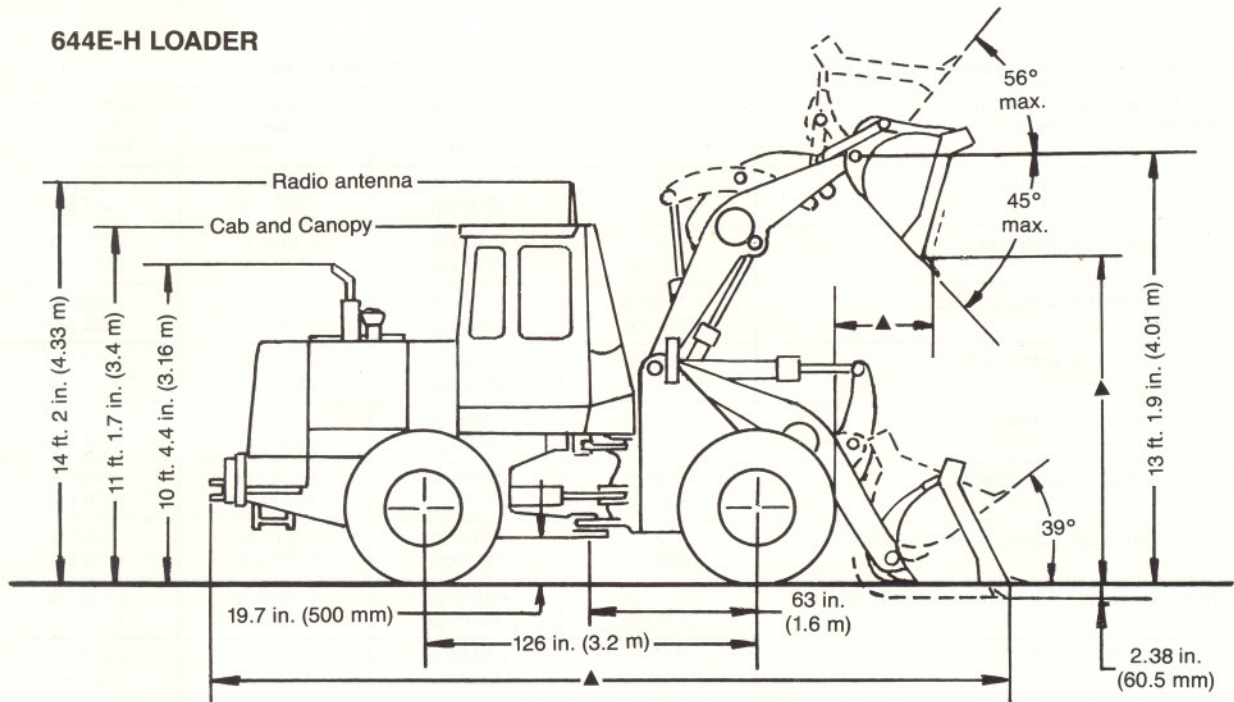
**CaCl₂ not to be used with two standard counterweights. If CaCl₂ is used, remove second counterweight.

644E-H BUCKET SELECTION GUIDE*



*This guide, representing buckets not necessarily manufactured by Deere, will help you in selecting proper bucket size for material density and loader configurations. However, specific bucket size should only be determined after adding or subtracting all the tipping load changes due to specifications.

644E-H LOADER



▲ SEE OPERATING INFORMATION

TIRES

23.5-25

Tread width

82.05 in.
(2084 mm)

Width over tires

107.44 in.
(2729 mm)

