

SPECIFICATIONS

450LC

ENGINE	
Type	John Deere 6101A with altitude-compensating turbocharger and aftercooler
Rated power	285 SAE net hp (213 kW) @ 2,000 rpm
Cylinders	6
Displacement	619 cu. in. (10.14 L)
Maximum net torque	955 lb.-ft. (1295 Nm) @ 1,300 rpm
Fuel consumption, typical	6 to 10 gal./hr. (23 to 38 L/h)
Cooling fan	suction-type
Electrical system	24 volt with 45-amp alternator
Batteries (two 12 volt)	reserve capacity: 180 min.
Off-level capacity	100% (45 deg.)
HYDRAULIC SYSTEM	
Main pumps	two variable-displacement axial-piston
Minimum flow	2 x 39 gpm (2 x 147 L/min.)
Maximum flow	2 x 95 gpm (2 x 360 L/min.)
Pilot pump	one gear
Maximum rated flow	9.3 gpm (35 L/min.)
Pressure setting	655 psi (4510 kPa)
System operating pressure	
Implement circuits	4,270 psi (29 440 kPa)
Travel circuits	5,050 psi (34 820 kPa)
Swing circuits	3,840 psi (26 480 kPa)
Power boost	4,480 psi (30 890 kPa)
Oil filtration	one 10-micron full-flow return filter with by-pass / one pilot oil filter / one suction filter
CYLINDERS	
Boom (2)	
Bore	6.69 in. (170 mm)
Rod diameter	4.53 in. (115 mm)
Stroke	62.6 in. (1590 mm)
Arm (1)	
Bore	7.48 in. (190 mm)
Rod diameter	5.12 in. (130 mm)
Stroke	76.4 in. (1940 mm)
Bucket (1)	
Bore	6.69 in. (170 mm)
Rod diameter	4.53 in. (115 mm)
Stroke	52.2 in. (1325 mm)
SWING MECHANISM	
Swing speed	0–9 rpm
Swing torque	107,004 lb.-ft. (145 189 Nm)
UNDERCARRIAGE	
Carrier rollers (per side)	3
Track rollers (per side)	9
Shoes (per side)	53
Track guides	front and center
Track adjustment	hydraulic
Travel speed	
Low	0–2.1 mph (0–3.4 km/h)
High	0–3.4 mph (0–5.5 km/h)
Drawbar pull	79,590 lb. (36 100 kg)
GROUND PRESSURE DATA	
Average ground pressure	
30-in. (750 mm) triple semi-grouser shoes	8.69 psi (59.9 kPa); recommended for rocky terrain and stumps
36-in. (900 mm) triple semi-grouser shoes	7.26 psi (50.1 kPa); recommended for general/soft terrain
CAPACITIES	
Fuel tank	160 gal. (605 L)
Cooling system	40 qt. (38 L)
Engine lubrication, including filter	36 qt. (34 L)
Hydraulic system	137 gal. (520 L)
Propel gearbox (each)	9 qt. (8.5 L)
Swing drive	6 qt. (5.7 L)
OPERATING WEIGHTS	
With full fuel tank; 175-lb. (79 kg) operator; 2.45-cu. yd. (1.87 m ³), 54-in. (1370 mm), 3,578-lb. (1623 kg) bucket; 12 ft. 10 in. (3.9 m) arm; 18,100-lb. (8210 kg) counter-weight; 17 ft. 11 in. (5.47 m) undercarriage length with 9 ft. 6 in. (2.89 m) wide gauge	
30-in. (750 mm) triple semi-grouser shoes	97,680 lb. (44 307 kg)
36-in. (900 mm) triple semi-grouser shoes	97,900 lb. (44 407 kg)

COMPONENT WEIGHTS**450LC**

Undercarriage	
30-in. (750 mm) triple semi-grouser shoes	39,242 lb. (17 800 kg)
36-in. (900 mm) triple semi-grouser shoes	39,462 lb. (17 900 kg)
Upperstructure with full fuel tank (less front attachments	
and 18,100-lb. [8210 kg] counterweight)	20,282 lb. (9200 kg)
One-piece boom (with arm cylinder)	9,017 lb. (4090 kg)
Arm with bucket cylinder and linkage	
9 ft. 6 in. (2.9 m)	5,082 lb. (2305 kg)
11 ft. 2 in. (3.4 m)	5,026 lb. (2280 kg)
12 ft. 10 in. (3.9 m)	5,423 lb. (2460 kg)
16 ft. 1 in. (4.9 m)	5,180 lb. (2350 kg)
Boom lift cylinders (2) total weight	1,863 lb. (845 kg)
54-in. (1370 mm), 2.45-cu. yd. (1.87 m ³) bucket	3,578 lb. (1623 kg)
Counterweight	18,100 lb. (8210 kg)

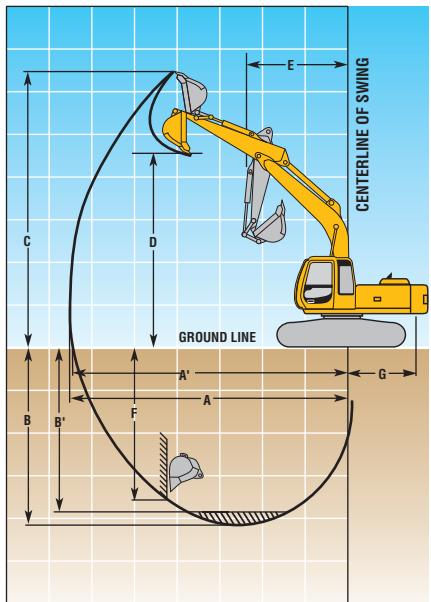
SHIPPING WEIGHT

Upperstructure with full fuel tank, boom with arm cylinder, boom cylinders (2), and undercarriage with 36-in. (900 mm) triple semi-grouser shoes (less 18,100-lb. [8210 kg] counterweight; 5,423-lb. [2460 kg], 12-ft. 10-in. [3.9 m] arm; 3,578-lb. [1623 kg], 54-in. [1370 mm], 2.45-cu. yd. [1.87 m ³] bucket, and 175-lb. [79 kg] operator)	70,624 lb. (32 035 kg)
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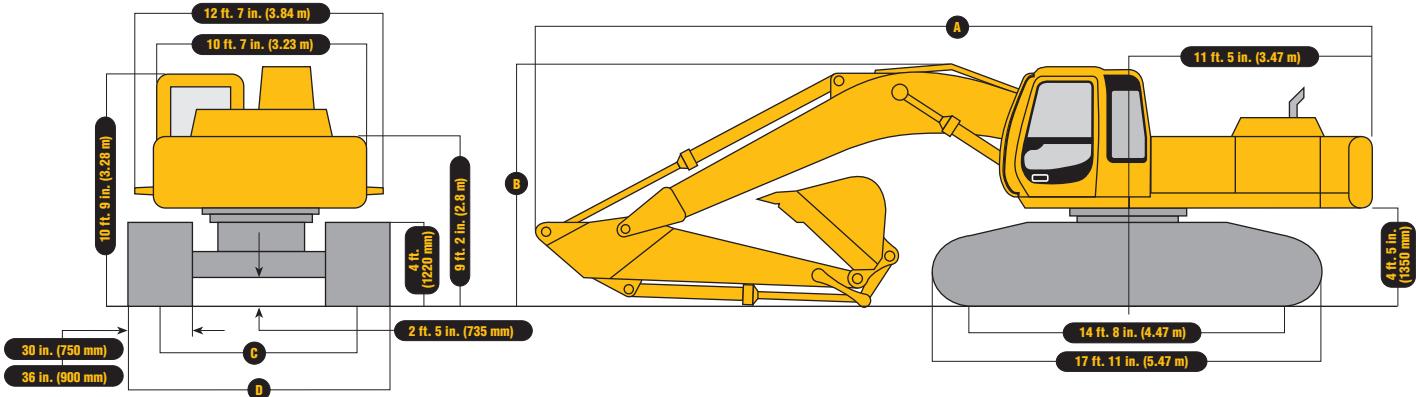
OPERATING INFORMATION

	Arm Length 9 ft. 6 in. (2.9 m)	Arm Length 11 ft. 2 in. (3.4 m)	Arm Length 12 ft. 10 in. (3.9 m)	Arm Length 16 ft. 1 in. (4.9 m)
Arm force with 54-in. (1370 mm) heavy-duty bucket*	50,460 lb. (224 kN)	42,990 lb. (191 kN)	40,910 lb. (182 kN)	33,700 lb. (150 kN)**
Bucket digging force with 54-in. (1370 mm) heavy-duty bucket*	52,980 lb. (236 kN)	52,980 lb. (236 kN)	52,980 lb. (236 kN)	39,190 lb. (174 kN)**
Lifting capacity over front @ ground level 20-ft. (6.1 m) reach*	35,050 lb. (15 899 kg)	35,130 lb. (15 935 kg)	34,378 lb. (15 594 kg)	33,771 lb. (15 319 kg)
A Maximum reach	37 ft. 6 in. (11.42 m)	39 ft. 6 in. (12.05 m)	40 ft. 11 in. (12.48 m)	43 ft. 11 in. (13.38 m)
A' Maximum reach @ ground level	36 ft. 9 in. (11.16 m)	38 ft. 9 in. (11.81 m)	40 ft. 3 in. (12.27 m)	43 ft. 3 in. (13.18 m)
B Maximum digging depth	23 ft. 11 in. (7.30 m)	25 ft. 6 in. (7.76 m)	27 ft. 1 in. (8.26 m)	29 ft. 11 in. (9.11 m)
B' Maximum digging depth @ 8-ft. (2.44 m) flat bottom	23 ft. 4 in. (7.10 m)	25 ft. 0 in. (7.62 m)	26 ft. 8 in. (8.13 m)	29 ft. 6 in. (9.00 m)
C Maximum cutting height	33 ft. 8 in. (10.27 m)	36 ft. 4 in. (11.08 m)	36 ft. 8 in. (11.18 m)	38 ft. 11 in. (11.85 m)
D Maximum dumping height	23 ft. 0 in. (7.00 m)	25 ft. 2 in. (7.66 m)	25 ft. 6 in. (7.78 m)	28 ft. 9 in. (8.77 m)
E Minimum swing radius	16 ft. 2 in. (4.92 m)	15 ft. 11 in. (4.84 m)	15 ft. 9 in. (4.81 m)	15 ft. 10 in. (4.82 m)
F Maximum vertical wall	15 ft. 8 in. (4.78 m)	21 ft. 10 in. (6.66 m)	23 ft. 1 in. (7.04 m)	27 ft. 9 in. (8.45 m)
G Tail swing radius	11 ft. 5 in. (3.47 m)	11 ft. 5 in. (3.47 m)	11 ft. 5 in. (3.47 m)	11 ft. 5 in. (3.47 m)

*Digging forces and lift capacities with power boost. / **Equipped with 54-in. (1370 mm) general-purpose bucket.

**DIMENSIONS**

A With 9 ft. 6 in. (2.9 m) arm	39 ft. 0 in. (11.88 m)
With 11 ft. 2 in. (3.4 m) arm	38 ft. 8 in. (11.79 m)
With 12 ft. 10 in. (3.9 m) arm	38 ft. 8 in. (11.79 m)
With 16 ft. 1 in. (4.9 m) arm	38 ft. 5 in. (11.70 m)
B With 9 ft. 6 in. (2.9 m) arm	11 ft. 10 in. (3.60 m)
With 11 ft. 2 in. (3.4 m) arm	11 ft. 5 in. (3.48 m)
With 12 ft. 10 in. (3.9 m) arm	11 ft. 5 in. (3.48 m)
With 16 ft. 1 in. (4.9 m) arm	15 ft. 3 in. (4.66 m)
C Operating position	9 ft. 6 in. (2.89 m)
Transport position	7 ft. 10 in. (2.39 m)
D With 30-in. (750 mm) triple semi-grouser shoes:	
Operating position	11 ft. 11 in. (3.64 m)
Transport position	10 ft. 4 in. (3.14 m)
With 36-in. (900 mm) triple semi-grouser shoes:	
Operating position	12 ft. 5 in. (3.79 m)
Transport position	10 ft. 10 in. (3.29 m)



S P E C I F I C A T I O N S

LIFT CAPACITIES

Boldface italic type indicates hydraulic-limited capacities; lightface type indicates stability-limited capacities, in lb. (kg). Ratings at bucket lift hook, machine equipped with 30-in. (750 mm) or 36-in. (900 mm) shoes and standard counterweight, situated on firm, uniform supporting surface. Total load includes weight of cables, hook, etc. Figures do not exceed 87 percent of hydraulic capacities or 75 percent of weight needed to tip machine. All lift capacities are with power boost or in precision mode.

Load Point	15 ft. (4.57 m)		20 ft. (6.10 m)		25 ft. (7.62 m)		30 ft. (9.15 m)		35 ft. (10.67 m)	
Height	Over Front	Over Side	Over Front	Over Side						

With 9-ft. 6-in. (2.9 m) arm and 3,578-lb. (1623 kg), 54-in. (1370 mm), 2.45-cu. yd. (1.87 m³) bucket

25 ft. (7.62 m)					19,359 (8781)	19,359 (8781)				
20 ft. (6.10 m)					19,861 (9009)	19,162 (8692)				
15 ft. (4.57 m)	35,116 (15 929)	35,116 (15 928)	26,001 (11 794)	26,001 (11 794)	21,609 (9802)	18,328 (8314)	19,193 (8706)	13,092 (5939)		
10 ft. (3.05 m)			30,473 (13 823)	24,661 (11 186)	23,845 (10 816)	17,296 (7845)	20,193 (9160)	12,590 (5710)		
5 ft. (1.52 m)			33,877 (15 367)	22,990 (10 428)	25,818 (11 711)	16,348 (7415)	21,083 (9563)	12,074 (5477)		
Ground Line			35,050 (15 899)	22,113 (10 030)	26,880 (12 193)	15,691 (7117)	20,655 (9369)	11,686 (5301)		
-5 ft. (-1.52 m)	43,076 (19 539)	35,345 (16 032)	34,149 (15 490)	21,855 (9913)	26,628 (12 078)	15,389 (6980)	20,476 (9288)	11,523 (5227)		
-10 ft. (-3.05 m)	38,823 (17 610)	35,770 (16 225)	31,353 (14 222)	22,018 (9987)	24,650 (11 181)	15,446 (7006)				
-15 ft. (-4.57 m)	31,846 (14 445)	31,846 (14 445)	26,054 (11 818)	22,589 (10 246)	19,615 (8897)	15,973 (7245)				

With 11-ft. 2-in. (3.4 m) arm and 3,578-lb. (1623 kg), 54-in. (1370 mm), 2.45-cu. yd. (1.87 m³) bucket

20 ft. (6.10 m)					18,785 (8453)	18,785 (8453)	17,749 (7987)	13,894 (6252)		
15 ft. (4.57 m)			24,511 (11 030)	24,511 (11 030)	20,694 (9312)	18,881 (8496)	18,482 (8317)	13,528 (6088)		
10 ft. (3.05 m)			29,201 (13 140)	25,548 (11 497)	23,128 (10 408)	17,830 (8024)	19,699 (8865)	12,979 (5841)		
5 ft. (1.52 m)			33,166 (14 925)	23,746 (10 686)	25,394 (11 427)	16,825 (7571)	20,914 (9411)	12,414 (5586)		
Ground Line	24,614 (11 076)	24,614 (11 076)	35,130 (15 809)	22,648 (10 192)	26,848 (12 082)	16,075 (7234)	20,956 (9430)	11,960 (5382)		
-5 ft. (-1.52 m)	41,796 (18 808)	35,496 (15 973)	34,972 (15 737)	22,197 (9989)	27,071 (12 182)	15,664 (7049)	20,674 (9303)	11,704 (5267)		
-10 ft. (-3.05 m)	42,070 (18 932)	35,837 (16 127)	32,869 (14 791)	22,206 (9993)	25,723 (11 575)	15,596 (7018)	19,952 (8978)	11,728 (5278)		
-15 ft. (-4.57 m)	35,705 (16 067)	35,705 (16 067)	28,480 (12 816)	22,609 (10 174)	22,016 (9907)	15,910 (7160)				
-20 ft. (-6.10 m)	25,460 (11 457)	25,460 (11 457)	20,113 (9051)		20,113 (9051)					

With 12-ft. 10-in. (3.9 m) arm and 3,578-lb. (1623 kg), 54-in. (1370 mm), 2.45-cu. yd. (1.87 m³) bucket

25 ft. (7.62 m)					10,811 (4904)	10,811 (4904)				
20 ft. (6.10 m)					16,440 (7457)	14,016 (6358)				
15 ft. (4.57 m)					19,328 (8767)	19,045 (8639)	17,375 (7881)	13,579 (6159)	9,694 (4397)	9,694 (4397)
10 ft. (3.05 m)	38,671 (17 541)	38,671 (17 541)	27,343 (12 403)	25,927 (11 760)	21,897 (9932)	17,938 (8137)	18,748 (8504)	12,974 (5885)	14,770 (6700)	9,545 (4330)
5 ft. (1.52 m)	34,037 (15 439)	34,037 (15 439)	31,732 (14 394)	23,946 (10 862)	24,396 (11 066)	16,843 (7640)	20,150 (9140)	12,345 (5600)	16,374 (7427)	9,223 (4184)
Ground Line	31,484 (14 281)	31,484 (14 281)	34,378 (15 594)	22,608 (10 255)	26,192 (11 881)	15,980 (7249)	20,807 (9438)	11,816 (5360)	16,074 (7291)	8,946 (4058)
-5 ft. (-1.52 m)	42,548 (19 300)	34,984 (15 869)	34,936 (15 847)	21,953 (9958)	26,850 (12 179)	15,452 (7009)	20,432 (9268)	11,475 (5205)		
-10 ft. (-3.05 m)	44,069 (19 990)	35,173 (15 954)	33,534 (15 211)	21,813 (9894)	26,063 (11 822)	15,272 (6927)	20,334 (9224)	11,386 (5165)		
-15 ft. (-4.57 m)	38,473 (17 451)	35,776 (16 228)	29,992 (13 604)	22,086 (10 018)	23,296 (10 567)	15,451 (7009)				
-20 ft. (-6.10 m)	29,542 (13 400)	29,542 (13 400)	23,241 (10 542)	22,829 (10 355)	16,517 (7492)	16,174 (7337)				

With 16-ft. 1-in. (4.9 m) arm and 2,215-lb. (1005 kg), 54-in. (1370 mm), 2.30-cu. yd. (1.76 m³) bucket

20 ft. (6.10 m)					15,386 (6979)	15,386 (6979)	13,213 (5993)	11,473 (5204)		
15 ft. (4.57 m)					16,604 (7532)	15,066 (6834)	15,731 (7136)	11,231 (5094)		
10 ft. (3.05 m)					20,744 (9409)	19,605 (8893)	18,241 (8274)	14,386 (6525)	16,602 (7531)	10,850 (4922)
5 ft. (1.52 m)	42,410 (19 237)	40,281 (18 271)	29,927 (13 575)	25,971 (11 780)	23,664 (10 734)	18,384 (8339)	19,976 (9061)	13,661 (6197)	17,568 (7969)	10,424 (4728)
Ground Line	40,970 (18 584)	37,329 (16 932)	33,771 (15 319)	24,228 (10 990)	26,085 (11 832)	17,328 (7860)	21,458 (9733)	13,007 (5900)	17,171 (7789)	10,032 (4551)
-5 ft. (-1.52 m)	41,898 (19 005)	36,040 (16 348)	35,716 (16 201)	23,155 (10 503)	27,544 (12 494)	16,580 (7521)	21,482 (9744)	12,517 (5678)	16,860 (7648)	9,745 (4420)
-10 ft. (-3.05 m)	48,326 (21 921)	35,696 (16 192)	35,714 (16 200)	22,669 (10 283)	27,745 (12 585)	16,176 (7338)	21,185 (9610)	12,247 (5555)	16,741 (7594)	9,635 (4370)
-15 ft. (-4.57 m)	44,537 (20 202)	35,935 (16 300)	33,722 (15 296)	22,648 (10 273)	26,366 (11 960)	16,112 (7308)	20,830 (9448)	12,248 (5556)		
-20 ft. (-6.10 m)	37,911 (17 196)	36,678 (16 637)	29,254 (13 270)	23,055 (10 458)	22,636 (10 268)	16,427 (7451)				
-25 ft. (-7.62 m)	26,897 (12 200)	26,897 (12 200)	20,578 (9334)	20,578 (9334)						

BUCKETS

A full line of buckets is offered to meet a wide variety of applications. Digging forces are with power boost. The buckets have an adjustable bushing for side clearance, with the exception of the ditching bucket. Tooth selection includes either the John Deere Fanggs®, Standard, Tiger, Twin Tiger, Abrasion panel, or Flare tooth, or the ESCO (Vertalok) Standard, Tiger, Twin Tiger, or Flare tooth. Replaceable cutting edges are available through John Deere parts. Optional side cutters add 6 inches (150 mm) to bucket widths.

Type Bucket	Bucket Width in. mm	Bucket Capacity* cu. yd. m ³	Weight lb. kg	Bucket Dig Force lb. kN	Arm Dig Force 9 ft. 6 in. (2.9 m) lb. kN	Arm Dig Force 11 ft. 2 in. (3.4 m) lb. kN	Arm Dig Force 12 ft. 10 in. (3.9 m) lb. kN	Arm Dig Force 16 ft. 1 in. (4.9 m) lb. kN	Bucket Tip Radius in. mm	No. Teeth	
General-Purpose	54 1370	2.30	1.76	2,215 1005	39,190 174.3				33,700 149.9	69.5 1765	7
Plate Lip	84 2135	5.00	3.82	4,905 2224	51,190 227.7	49,790 221.5				74.0 1880	7
Heavy-Duty	36 915	1.56	1.19	2,888 1310	52,980 235.7	50,460 224.4	42,990 191	40,910 182.0		71.5 1816	4
Plate Lip	42 1065	1.85	1.41	3,124 1417	52,980 235.7	50,460 224.4	42,990 191	40,910 182.0		71.5 1816	5
	48 1220	2.15	1.64	3,320 1505	52,980 235.7	50,460 224.4	42,990 191	40,910 182.0		71.5 1816	6
	54 1370	2.45	1.87	3,578 1623	52,980 235.7	50,460 224.4	42,990 191	40,910 182.0		71.5 1816	6
	60 1525	2.74	2.10	3,771 1710	52,980 235.7	50,460 224.4	42,990 191	40,910 182.0		71.5 1816	7
	66 1675	3.01	2.30	3,825 1735	52,980 235.7	50,460 224.4	42,990 191	40,910 182.0		71.5 1816	7
	72 1830	3.29	2.52	4,061 1842	52,980 235.7	50,460 224.4	42,990 191	40,910 182.0		71.5 1816	8

BUCKETS (continued)

A full line of buckets is offered to meet a wide variety of applications. Digging forces are with power boost. The buckets have an adjustable bushing for side clearance, with the exception of the ditching bucket. Tooth selection includes either the John Deere Fanggs®, Standard, Tiger, Twin Tiger, Abrasion panel, or Flare tooth, or the ESCO (Vertalok) Standard, Tiger, Twin Tiger, or Flare tooth. Replaceable cutting edges are available through John Deere parts. Optional side cutters add 6 inches (150 mm) to bucket widths.

Type Bucket	Bucket Width		Bucket Capacity*		Bucket Dig Force		Arm Dig Force 9 ft.		Arm Dig Force 11 ft.		Arm Dig Force 12 ft.		Arm Dig Force 16 ft.		Bucket Tip Radius in. mm	No. Teeth
	in. mm	cu. yd. m³	lb. kg	lb. kN	lb. kN	6 in. (2.9 m)	lb. kN	2 in. (3.4 m)	lb. kN	10 in. (3.9 m)	lb. kN	1 in. (4.9 m)	lb. kN			
Truck Loading	72 1830	4.18 3.20	4,340 2041	51,190 227.7	49,790 221.5	42,472 189	40,460 180.0					74.0 1880		6		
Heavy-Duty High Capacity	36 915	1.96 1.50	3,375 1530	51,190 227.7	49,790 221.5	42,472 189	40,460 180.0					74.0 1880		4		
	42 1065	2.32 1.77	3,812 1729	51,190 227.7	49,790 221.5	42,472 189	40,460 180.0					74.0 1880		4		
	48 1220	2.69 2.06	3,969 1800	51,190 227.7	49,790 221.5	42,472 189	40,460 180.0					74.0 1880		5		
	54 1370	3.06 2.34	4,478 2031	51,190 227.7	49,790 221.5	42,472 189	40,460 180.0					74.0 1880		5		
	60 1525	3.43 2.62	5,131 2327	51,190 227.7	49,790 221.5	42,472 189	40,460 180.0					74.0 1880		6		
	66 1675	3.80 2.91	5,003 2269	51,190 227.7	49,790 221.5	42,472 189	40,460 180.0					74.0 1880		6		
	72 1830	4.18 3.20	5,865 2660	51,190 227.7	49,790 221.5	42,472 189	40,460 180.0					74.0 1880		7		
Severe-Duty	42 1065	1.80 1.38	3,189 1446	52,610 234.0	50,325 223.8	42,885 191	40,820 181.6					72.0 1829		5		
Cast Lip	48 1220	2.15 1.64	3,510 1592	52,610 234.0	50,325 223.8	42,885 191	40,820 181.6					72.0 1829		5		
Severe-Duty Plate Lip	36 915	1.56 1.19	3,024 1372	52,610 234.0	50,325 223.8	42,885 191	40,820 181.6					72.0 1829		3		
	42 1065	1.85 1.41	3,470 1574	52,610 234.0	50,325 223.8	42,885 191	40,820 181.6					72.0 1829		4		
	48 1220	2.15 1.64	3,522 1597	52,610 234.0	50,325 223.8	42,885 191	40,820 181.6					72.0 1829		5		
	54 1370	2.45 1.87	3,719 1686	52,610 234.0	50,325 223.8	42,885 191	40,820 181.6					72.0 1829		5		
Ditching	84 2135	2.40 1.84	2,730 1238	71,475 317.9	56,050 249.3	47,241 210	44,565 198.2					53.0 1346		0		

*All capacities are SAE heaped ratings.

BUCKET SELECTION GUIDE

Material (loose weight)	Recommended Bucket Size*	
	General-Purpose Bucket	Heavy-Duty Bucket
Wood chips – 700 lb./cu. yd. (420 kg/m³)	11.00 cu. yd. (8.4 m³)	—
Peat, dry – 750 lb./cu. yd. (440 kg/m³)	10.00 cu. yd. (7.6 m³)	—
Cinders – 950 lb./cu. yd. (560 kg/m³)	8.00 cu. yd. (6.1 m³)	—
Peat, wet – 1,170 lb./cu. yd. (690 kg/m³)	7.00 cu. yd. (5.4 m³)	—
Topsoil – 1,600 lb./cu. yd. (950 kg/m³)	6.00 cu. yd. (4.6 m³)	—
Coal – 1,780 lb./cu. yd. (1050 kg/m³)	5.00 cu. yd. (3.8 m³)	—
Caliche – 2,100 lb./cu. yd. (1250 kg/m³)	2.75–4.00 cu. yd. (2.1–3.1 m³)	2.50–3.75 cu. yd. (1.9–2.9 m³)
Earth, loam – 2,100 lb./cu. yd. (1250 kg/m³)	4.00 cu. yd. (3.1 m³)	3.75 cu. yd. (2.9 m³)
Shale – 2,250 lb./cu. yd. (1330 kg/m³)	4.00 cu. yd. (3.1 m³)	3.75 cu. yd. (2.9 m³)
Sand, dry – 2,400 lb./cu. yd. (1420 kg/m³)	4.00 cu. yd. (3.1 m³)	3.75 cu. yd. (2.9 m³)
Clay, dry – 2,500 lb./cu. yd. (1480 kg/m³)	3.00–3.75 cu. yd. (2.3–2.9 m³)	3.25 cu. yd. (2.5 m³)
Earth, dry – 2,550 lb./cu. yd. (1510 kg/m³)	3.00–3.50 cu. yd. (2.3–2.7 m³)	3.25 cu. yd. (2.5 m³)
Limestone, broken or crushed – 2,600 lb./cu. yd.		
(1540 kg/m³)	2.50–3.50 cu. yd. (1.9–2.7 m³)	2.25–3.25 cu. yd. (1.7–2.5 m³)
Earth, wet – 2,700 lb./cu. yd. (1600 kg/m³)	3.50 cu. yd. (2.7 m³)	3.25 cu. yd. (2.5 m³)
Clay, wet – 2,800 lb./cu. yd. (1660 kg/m³)	3.50 cu. yd. (2.7 m³)	3.25 cu. yd. (2.5 m³)
Rock, granite, blasted and broken – 2,800 lb./cu. yd.		
(1660 kg/m³)	2.75–4.00 cu. yd. (2.1–3.1 m³)	2.50–3.75 cu. yd. (1.9–2.9 m³)
Sand, moist – 2,850 lb./cu. yd. (1690 kg/m³)	3.50 cu. yd. (2.7 m³)	3.25 cu. yd. (2.5 m³)
Sand and gravel, dry – 2,900 lb./cu. yd. (1720 kg/m³)	3.50 cu. yd. (2.7 m³)	3.25 cu. yd. (2.5 m³)
Sand, wet – 3,100 lb./cu. yd. (1840 kg/m³)	3.00 cu. yd. (2.3 m³)	2.75 cu. yd. (2.1 m³)
Sand and gravel, wet – 3,400 lb./cu. yd. (2020 kg/m³)	3.00 cu. yd. (2.3 m³)	2.75 cu. yd. (2.1 m³)

*Contact your John Deere dealer for optimum bucket and attachment selections. These recommendations are for general conditions and average use. Larger buckets may be possible for flat and level operations, less compacted materials, and volume loading applications such as mass excavation applications in ideal conditions. Smaller buckets are recommended for adverse conditions such as off-level applications and uneven surfaces. Bucket capacity indicated is SAE heaped.

ADDITIONAL EQUIPMENT

	450LC	450LC	450LC
ENGINE			
Auto-idle system	●		
Automatic belt tension device	●		
Batteries (two 12 volt), 180-min. (1,250 CCA) reserve capacity	●		
Dual element dry-type air filter	●		
Electric fuel shutoff	●		
Enclosed fan guard	●		
Conforms to SAE J1308	●		
Engine coolant to -34°F (-37°C)	●		
Fuel filter with water separator	●		
Full-flow oil filter	●		
Radiator trash screen	●		
Underhood muffler with vertical curved end exhaust stack	●		
Electric ether starting aid	■		
Engine coolant heater	■		
HYDRAULIC SYSTEM			
Anti-drift valve for boom down, arm in	●		
Spring-applied, hydraulically released automatic swing brake	●		
Auxiliary hydraulic and electric pilot controls	■		
Auxiliary hydraulic lines	■		
Hydraulic filter restriction indicator kit	■		
Load-lowering control device	■		
Single pedal propel control	■		
UNDERCARRIAGE			
Planetary drive	●		
Propel motor shields	●		
Track guides, front idler and center	●		
Triple semi-grouser shoes, 30 in. (750 mm)	●		
Triple semi-grouser shoes, 36 in. (900 mm)	■		
Two-speed propel	●		
Upper carrier rollers (3)	●		
UPPERSTRUCTURE			
Counterweight, 18,100 lb. (8210 kg)	●		
Right- and left-hand mirrors	●		
Toolbox	●		
Vandal locks with ignition key	●		
Cab door	●		
Engine hood	●		
FRONT ATTACHMENTS			
Fuel cap	●		
Service doors	●		
Toolbox	●		
Bucket-to-arm clearance adjustable bushing (except ditching buckets)	●		
Centralized lubrication system	●		
Dirt seals on all bucket pins	●		
No-boom-arm	●	■	
Arm, 9 ft. 6 in. (2.9 m)	●	■	
Arm, 11 ft. 2 in. (3.4 m)	●	■	
Arm, 12 ft. 10 in. (3.9 m)	●	■	
Arm, 16 ft. 1 in. (4.9 m)	●	■	
Attachment quick couplers	●	■	
Boom cylinder with plumbing to mainframe	●	■	
Buckets	●	■	
Ditching	■		
General purpose	■		
General-purpose high capacity	■		
Heavy duty	■		
Heavy-duty high capacity	■		
Severe-duty cast lip	■		
Severe-duty plate lip	■		
Side cutters and teeth	■		
Heavy-duty grapple	■		
Hydraulic bucket material clamps	■		
Slide-Loc hydraulic coupler	■		
Super-long front	■		
OPERATOR'S STATION			
Adjustable seat with independent control positions (levers-to-seat, seat-to-pedals)	●		
AM/FM stereo	●		
Deluxe suspension cloth seat with adjustable armrests	●		
Front windshield wiper with intermittent speed	●		
Gauges (illuminated)	●		
Engine coolant	●		
Fuel	●		
Heater, 20,000 Btu/hr. (5.9 kW) with blower fan	●		
Horn, electric on left control lever	●		
Hourmeter, electric	●		
ELECTRICAL			
Blade-type multi-fused circuits	●		
By-pass start safety cover on starter	●		
Positive terminal battery covers	●		
Cab extension wiring harness	●		
LIGHTS			
Halogen work lights	●		
One mounted on boom	●		
One mounted on frame	●		

KEY: ● Standard equipment ■ Optional or special equipment

THE JDAdvantage

JDAdvantage is a wealth of support programs, parts systems, and dealer resources, all designed to give you the edge. This package of special benefits is a major reason why John Deere offers the "best value" for your equipment dollar.

Best parts support – Twelve regional parts depots in North America and others around the world put parts support near your job no matter where in the world it is.

A computerized FLASH™ parts locating system linking these depots to dealerships can find out-of-stock parts in a hurry and get them into your hands fast ... within 24 hours, across North America.

Best service backup – Dealer service technicians are regularly schooled, at our modern facility in Davenport, Iowa, or by professionals in the field, to diagnose quickly and repair efficiently.

If they're stumped, a phone call to DTAC (Dealer Technical Assistance Center) puts them in touch with a staff of pros at the factory who help them find a solution quickly.

Best dealers – Your John Deere dealer is an important contributor to the JDAdvantage. He or she is committed to being the best equipment supplier you can work with.



Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan, at standard conditions per SAE J1349 and DIN 6270B, using No. 2-D fuel at 35 API gravity. No derating is required up to 10,000 ft. (3050 m) altitude. Gross power is without cooling fan.

This is a dollars-and-cents commitment in parts inventory, in service facilities, in field-service trucks. It's a sweat-and-blood commitment in dedicated, skilled, and highly trained and motivated personnel in each and every department at the dealership.

But what sets John Deere dealers apart from all the rest is something more, a factor somewhat difficult to measure ... a caring attitude, and a sincere desire to be the best at meeting the needs of each individual customer.

John Deere Finance Plans – Whether you rent, lease, or buy John Deere equipment, your dealer can explain the John Deere options available. One-stop options that let you free up operating capital, keep other lines of credit open. More solid benefits of the JDAdvantage.

Best protection – In addition to the new equipment warranty that meets or exceeds the competition, SECURE® extended coverage, an optional service product for John Deere equipment, is available for repair coverage after the warranty concludes. Full machine or power train coverage is available for a variety of time periods to meet your needs. Consult your dealer for availability and details.

Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with SAE standards. Except where otherwise noted, these specifications are based on a unit with 54-in. (1370 mm) bucket, 36-in. (900 mm) track shoes, 18,100-lb. (8210 kg) counterweight, full fuel tank, and 175-lb. (79 kg) operator.

