

380G LC

Engine	380G LC		
	Base engine for use in U.S., U.S. Territories, and Canada	Optional engine for use outside the U.S. and U.S. Territories	
Manufacturer and Model	John Deere PowerTech™ PSX 9.0 L	John Deere PowerTech™ Plus 9.0 L	
Non-Road Emissions Standard	EPA Interim Tier 4/EU Stage IIIB	EPA Tier 3/EU Stage IIIA	
Net Rated Power (ISO 9249)	202 kW (271 hp) at 1,900 rpm	202 kW (271 hp) at 1,900 rpm	
Cylinders	6	6	
Displacement	9.0 L (549 cu. in.)	9.0 L (549 cu. in.)	
Off-Level Capacity	70% (35 deg.)	70% (35 deg.)	
Aspiration	Turbocharged, air-to-air charge-air cooler	Turbocharged, air-to-air charge-air cooler	
Cooling			
Cool-on-demand hydraulic-driven, suction-type fan with remote-mounted drive			
Powertrain			
2-speed propel with automatic shift			
Maximum Travel Speed			
Low	3.2 km/h (2.0 mph)		
High	5.0 km/h (3.1 mph)		
Drawbar Pull	29 200 kg (64,375 lb.)		
Hydraulics			
Open center, load sensing			
Main Pumps	2 variable-displacement pumps		
Maximum Rated Flow	288 L/m (76.1 gpm) x 2		
Pilot Pump	One gear		
Maximum Rated Flow	34 L/m (8.9 gpm)		
Pressure Setting	3900 kPa (566 psi)		
System Operating Pressure			
Circuits			
Implement	34 300 kPa (4,975 psi)		
Travel	35 500 kPa (5,149 psi)		
Swing	33 300 kPa (4,830 psi)		
Power Boost	38 000 kPa (5,511 psi)		
Controls	Pilot levers, short stroke, low-effort hydraulic pilot controls with shutoff lever		
Cylinders			
	<i>Bore</i>	<i>Rod Diameter</i>	<i>Stroke</i>
Boom (2)	145 mm (5.7 in.)	100 mm (3.9 in.)	1520 mm (59.8 in.)
Arm (1)	170 mm (6.7 in.)	115 mm (4.5 in.)	1740 mm (68.5 in.)
Bucket (1)	140 mm (5.5 in.)	95 mm (3.7 in.)	1250 mm (49.2 in.)
Electrical			
Number of Batteries (12 volt)	2		
Battery Capacity	1,400 CCA		
Alternator Rating	100 amp		
Work Lights	2 halogen (one mounted on boom, one on frame)		
Undercarriage			
Rollers (each side)			
Carrier	2		
Track	8		
Shoes, Triple Semi-Grousers (each side)	48		
Track			
Adjustment	Hydraulic		
Guides	3 per side		
Chain	Sealed and lubricated		



Ground Pressure 380G LC

800-mm (32 in.) Heavy-Duty Triple Semi-Grouser Shoes 56.5 kPa (8.20 psi)

Swing Mechanism

Speed 10.7 rpm
Torque 120 000 Nm (88,507 lb.-ft.)

Serviceability

Refill Capacities

Fuel Tank	628 L (166 gal.)
Cooling System	39.7 L (10.5 gal.)
Engine Oil with Filter	27 L (7.2 gal.)
Hydraulic Tank	193 L (51 gal.)
Hydraulic System	290 L (77 gal.)
Swing Drive	11.8 L (12.5 qt.)
Gearbox	
Propel (each)	8.5 L (9.0 qt.)
Pump Drive	1.1 L (1.2 qt.)

Operating Weights

With full fuel tank; 79-kg (175 lb.) operator; 1.76-m³ (2.3 cu. yd.), 1370-mm (54 in.), 1160-kg (2,557 lb.) bucket; 4.0-m (13 ft. 1 in.) arm; 7629-kg (16,819 lb.) counterweight; and 800-mm (32 in.) Heavy-Duty triple semi-grouser shoes

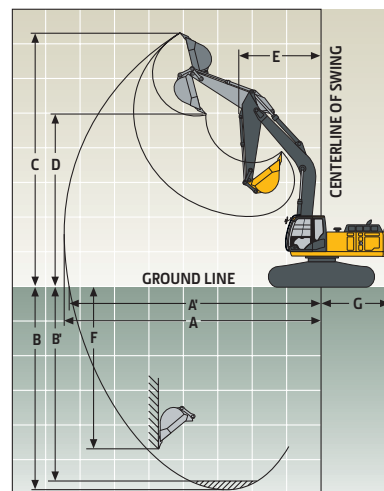
Operating Weight 37 200 kg (82,012 lb.)

Component Weights

Undercarriage, Heavy-Duty, with 800-mm (32 in.) Heavy-Duty Triple Semi-Grouser Shoes	13 550 kg (29,872 lb.)
Heavy-Duty One-Piece Boom (with arm cylinder)	3541 kg (7,806 lb.)
Arm with Bucket Cylinder and Linkage	
3.2 m (10 ft. 6 in.) Heavy Duty	1957 kg (4,315 lb.)
4.0 m (13 ft. 1 in.)	1898 kg (4,184 lb.)
Boom-Lift Cylinders (2), Total Weight	624 kg (1,376 lb.)
1.76-m ³ (2.3 cu. yd.), 1370-mm (54 in.) Heavy-Duty Bucket	1160 kg (2,557 lb.)
Counterweight, Standard	7629 kg (16,819 lb.)

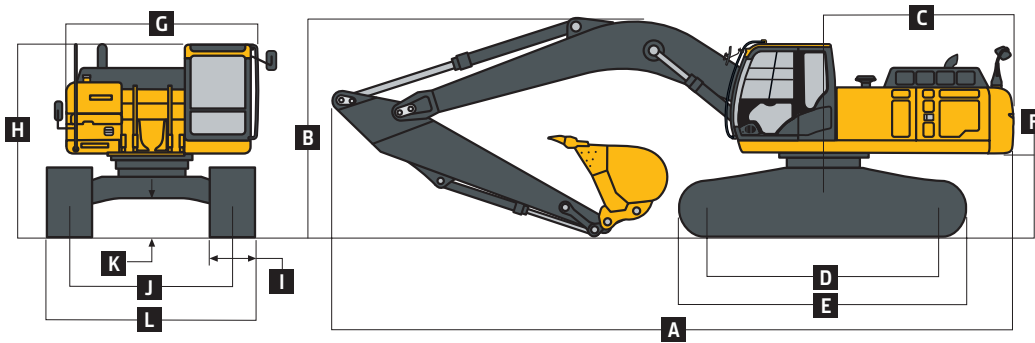
Operating Dimensions

Arm Length	3.2 m (10 ft. 6 in.) Heavy Duty	4.0 m (13 ft. 1 in.)
Arm Digging Force		
SAE	177.6 kN (39,930 lb.)	152.6 kN (34,314 lb.)
ISO	185.0 kN (41,590 lb.)	159.0 kN (35,745 lb.)
Bucket Digging Force		
SAE	225.2 kN (50,628 lb.)	225.2 kN (50,628 lb.)
ISO	246.0 kN (55,303 lb.)	246.0 kN (55,303 lb.)
Lifting Capacity Over Front at Ground Level 6.1-m (20 ft.) Reach (with power boost)	13 539 kg (29,848 lb.)	13 254 kg (29,220 lb.)
A Maximum Reach	11.10 m (36 ft. 5 in.)	11.86 m (38 ft. 11 in.)
A' Maximum Reach at Ground Level	10.89 m (35 ft. 9 in.)	11.67 m (38 ft. 3 in.)
B Maximum Digging Depth	7.38 m (24 ft. 3 in.)	8.18 m (26 ft. 10 in.)
B' Maximum Digging Depth at 2.44-m (8 ft. 0 in.) Flat Bottom	7.21 m (23 ft. 8 in.)	8.04 m (26 ft. 5 in.)
C Maximum Cutting Height	10.36 m (34 ft. 0 in.)	10.75 m (35 ft. 3 in.)
D Maximum Dumping Height	7.24 m (23 ft. 9 in.)	7.63 m (25 ft. 0 in.)
E Minimum Swing Radius	4.46 m (14 ft. 8 in.)	4.47 m (14 ft. 8 in.)
F Maximum Vertical Wall	6.42 m (21 ft. 1 in.)	7.27 m (23 ft. 10 in.)
G Tail-Swing Radius	3.60 m (11 ft. 10 in.)	3.60 m (11 ft. 10 in.)



Machine Dimensions 380G LC

A Overall Length		
3.2 m (10 ft. 6 in.) Heavy Duty	11.20 m (36 ft. 9 in.)	
4.0 m (13 ft. 1 in.)	11.29 m (37 ft. 1 in.)	
B Overall Height		
3.2 m (10 ft. 6 in.) Heavy Duty	3.27 m (10 ft. 9 in.)	
4.0 m (13 ft. 1 in.)	3.60 m (11 ft. 10 in.)	
C Rear-End Length/Swing Radius	3.60 m (11 ft. 10 in.)	
D Distance Between Idler/Sprocket Centerline	4.05 m (13 ft. 3 in.)	
E Undercarriage Length	4.94 m (16 ft. 2 in.)	
F Counterweight Clearance	1.18 m (3 ft. 10 in.)	
G Upperstructure Width	2.99 m (9 ft. 10 in.)	
H Cab Height	3.17 m (10 ft. 5 in.)	
I Track Width	700 mm (28 in.) Heavy Duty / 800 mm (32 in.) Heavy Duty	
J Gauge Width	2.59 m (8 ft. 6 in.)	
K Ground Clearance	0.50 m (20 in.)	
L Overall Width with Shoes		
700 mm (28 in.) Heavy Duty	3.29 m (10 ft. 10 in.)	
800 mm (32 in.) Heavy Duty	3.39 m (11 ft. 2 in.)	



Lift Capacities

Boldface type indicates hydraulically limited capacity; **lightface type** indicates stability-limited capacities, in kg (lb.). All lift capacities are based on ISO 10567 (with power boost). Machine equipped with 1270-kg (2,800 lb.) bucket and 800-mm (32 in.) Heavy-Duty shoes; standard gauge; and 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.

Load Point Height	1.5 m (5 ft.)		3.0 m (10 ft.)		4.5 m (15 ft.)		6.0 m (20 ft.)		7.5 m (25 ft.)		9.0 m (30 ft.)	
Horizontal Distance from Centerline of Rotation	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
<i>With 3.2-m (10 ft. 6 in.) Heavy-Duty arm</i>												
6.0 m (20 ft.)									7806	6710		
									(17,082)	(14,371)		
4.5 m (15 ft.)							9878	9578	8475	6515	6368	4579
							(21,357)	(20,618)	(18,430)	(13,985)		
3.0 m (10 ft.)					16 096	14 063	11 549	8981	9351	6241	7495	4479
					(34,555)	(30,342)	(24,944)	(19,352)	(20,278)	(13,410)	(16,066)	(9,578)
1.5 m (5 ft.)					18 594	13 091	12 991	8462	9974	5961	7360	4356
					(40,102)	(28,200)	(28,079)	(18,225)	(21,440)	(12,817)	(15,795)	(9,329)
Ground Line					19 348	12 683	13 792	8133	9747	5757	7262	4266
					(41,891)	(27,271)	(29,848)	(17,503)	(20,953)	(12,380)	(15,602)	(9,152)
-1.5 m (-5 ft.)			11 896	11 896	18 817	12 614	13 787	8003	9650	5670		
			(27,023)	(27,023)	(40,794)	(27,102)	(29,755)	(17,218)	(20,751)	(12,198)		
-3.0 m (-10 ft.)	14 227	14 227	19 619	19 619	17 190	12 755	12 828	8053	9604	5735		
	(31,928)	(31,928)	(44,624)	(44,624)	(37,195)	(27,413)	(27,670)	(17,335)	(20,489)	(12,369)		
-4.5 m (-15 ft.)			18 938	18 938	14 064	13 113	10 310	8318				
			(40,693)	(40,693)	(30,129)	(28,219)	(21,788)	(17,958)				

Lift Capacities (continued) 380G LC

Boldface type indicates hydraulically limited capacity; lightface type indicates stability-limited capacities, in kg (lb.). All lift capacities are based on ISO 10567 (with power boost). Machine equipped with 1270-kg (2,800 lb.) bucket and 800-mm (32 in.) Heavy-Duty shoes; standard gauge; and 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.

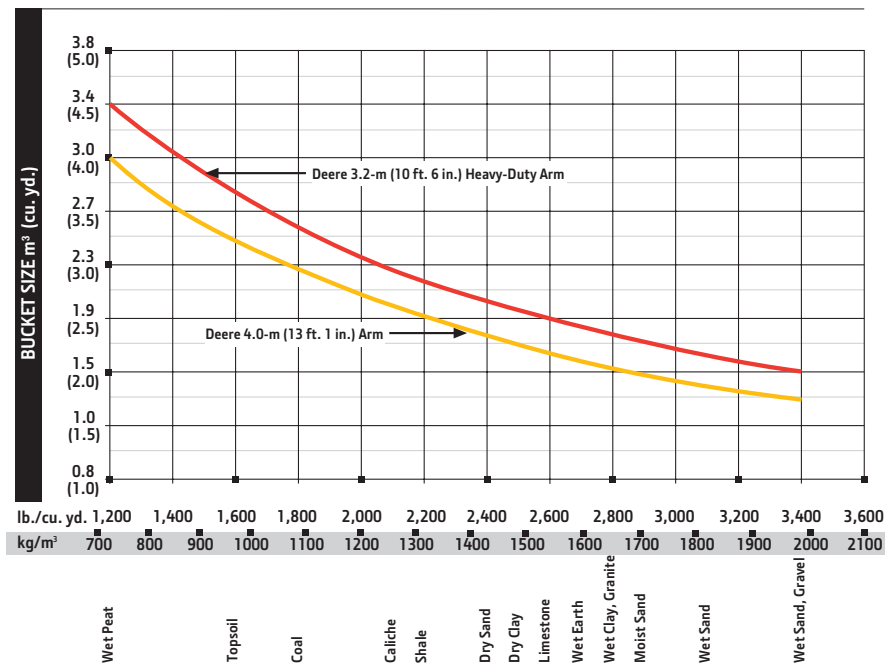
Load Point Height	1.5 m (5 ft.)		3.0 m (10 ft.)		4.5 m (15 ft.)		6.0 m (20 ft.)		7.5 m (25 ft.)		9.0 m (30 ft.)			
Horizontal Distance from Centerline of Rotation	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side		
With 4.0-m (13 ft. 1 in.) arm														
7.5 m (25 ft.)									(14,562)	(14,562)				
6.0 m (20 ft.)									6939	6939	5716	4868		
4.5 m (15 ft.)									(15,179)	(14,954)	(11,000)	(10,368)		
3.0 m (10 ft.)									7721	6752	7114	4789		
1.5 m (5 ft.)									(16,795)	(14,497)	(15,557)	(10,238)		
Ground Line			6730	6730	19 133	12 967	14 260	10 586	9333	8725	6451	7629	4642	
			(15,403)	(15,403)	(41,379)	(27,888)	(30,632)	(22,873)	(20,101)	(18,928)	(13,862)	(16,451)	(9,938)	
-1.5 m (-5 ft.)	6799	6799	10 863	10 863	19 370	12 713	17 458	13 633	8747	9704	6133	7490	4478	
	(15,210)	(15,210)	(24,660)	(24,660)	(41,953)	(27,321)	(37,630)	(29,362)	(26,612)	(18,836)	(21,034)	(13,184)	(16,079)	(9,597)
-3.0 m (-10 ft.)	11 387	11 387	16 293	16 293	18 425	12 723	17 458	13 633	8747	9704	6133	7490	4478	
	(25,561)	(25,561)	(36,911)	(36,911)	(39,871)	(27,341)	(37,630)	(29,362)	(26,612)	(18,836)	(21,034)	(13,184)	(16,079)	(9,597)
-4.5 m (-15 ft.)	16 888	16 888	22 921	22 921	16 178	12 944	17 458	13 633	8747	9704	6133	7490	4478	
	(37,963)	(37,963)	(49,377)	(49,377)	(34,814)	(27,840)	(37,630)	(29,362)	(26,612)	(18,836)	(21,034)	(13,184)	(16,079)	(9,597)
-6.0 m (-20 ft.)			16 336	16 336	11 807	11 807	17 458	13 633	8747	9704	6133	7490	4478	
			(34,418)	(34,418)	(24,741)	(24,741)	(37,630)	(29,362)	(26,612)	(18,836)	(21,034)	(13,184)	(16,079)	(9,597)

Buckets

A full line of buckets is offered to meet a wide variety of applications. Digging forces are with power boost. Buckets are equipped with John Deere Fanggs™ teeth or ESCO teeth standard. Replaceable cutting edges and a variety of teeth are available through John Deere Parts. Optional side cutters add 150 mm (6 in.) to bucket widths. Capacities are SAE heaped ratings.

Type Bucket	Bucket Width		Bucket Capacity		Bucket Weight		Bucket Dig Force		Arm Dig Force 3.2 m (10 ft. 6 in.) Heavy Duty		Arm Dig Force 4.0 m (13 ft. 1 in.)		Bucket Tip Radius		Number of Teeth
	mm	in.	m ³	cu. yd.	kg	lb.	kN	lb.	kN	lb.	kN	lb.	mm	in.	
Heavy Duty Plate Lip	915	36	1.13	1.5	971	2,140	225.2	496	177.6	392	152.6	337	1600	63.0	4
	1065	42	1.34	1.7	1003	2,212	225.2	496	177.6	392	152.6	337	1600	63.0	5
	1220	48	1.55	2.0	1055	2,326	225.2	496	177.6	392	152.6	337	1600	63.0	6
	1372	54	1.76	2.3	1161	2,559	225.2	496	177.6	392	152.6	337	1600	63.0	6
Heavy Duty High Capacity	760	30	0.96	1.3	1142	2,518	204.2	450	171.7	379	148.3	327	1765	69.5	4
	915	36	1.19	1.6	1263	2,783	204.2	450	171.7	379	148.3	327	1765	69.5	4
	1065	42	1.41	1.8	1416	3,123	204.2	450	171.7	379	148.3	327	1765	69.5	5
	1220	48	1.64	2.1	1506	3,321	204.2	450	171.7	379	148.3	327	1765	69.5	6
	1372	54	1.87	2.4	1617	3,565	204.2	450	171.7	379	148.3	327	1765	69.5	6

Bucket Selection Guide*



*Contact your John Deere dealer for optimum bucket and attachment selections. These recommendations are for general conditions and average use. Does not include optional equipment such as thumbs or couplers. Larger buckets may be possible when using light materials, 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, rocks, and uneven surfaces. Bucket capacity indicated is SAE heaped.