

350G LC



Engine	350G 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	Optional engine for use outside the U.S., U.S. Territories, and Canada
Manufacturer and Model	John Deere PowerTech™ PSX 9.0 L	John Deere PowerTech™ Plus 9.0 L	John Deere PowerTech™ 9.0 L
Non-Road Emissions Standard	EPA Interim Tier 4/EU Stage IIIB	EPA Tier 3/EU Stage IIIA	EPA Tier 2/EPA Stage II
Net Rated Power (ISO 9249)	202 kW (271 hp) at 1,900 rpm	202 kW (271 hp) at 1,900 rpm	202 kW (271 hp) at 1,900 rpm
Cylinders	6	6	6
Displacement	9.0 L (549 cu. in.)	9.0 L (549 cu. in.)	9.0 L (549 cu. in.)
Off-Level Capacity	70% (35 deg.)	70% (35 deg.)	70% (35 deg.)
Aspiration	Turbocharged, air-to-air charge-air cooler	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	350G LC
800-mm (32 in.) Triple Semi-Grouser Shoes	52.8 kPa (7.66 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	
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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; 6928-kg (15,274 lb.) counterweight; and 800-mm (32 in.) triple semi-grouser shoes

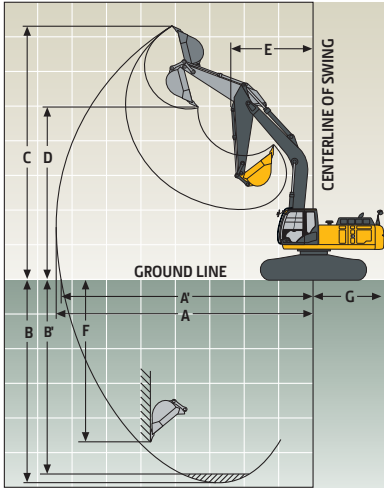
Operating Weight	34 726 kg (76,557 lb.)
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Component Weights	
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Undercarriage with 800-mm (32 in.) Triple Semi-Grouser Shoes	12 710 kg (28,020 lb.)
One-Piece Boom (with arm cylinder)	3031 kg (6,682 lb.)
Arm with Bucket Cylinder and Linkage	
2.66 m (8 ft. 9 in.)	1649 kg (3,635 lb.)
3.2 m (10 ft. 6 in.)	1758 kg (3,876 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	6928 kg (15,274 lb.)

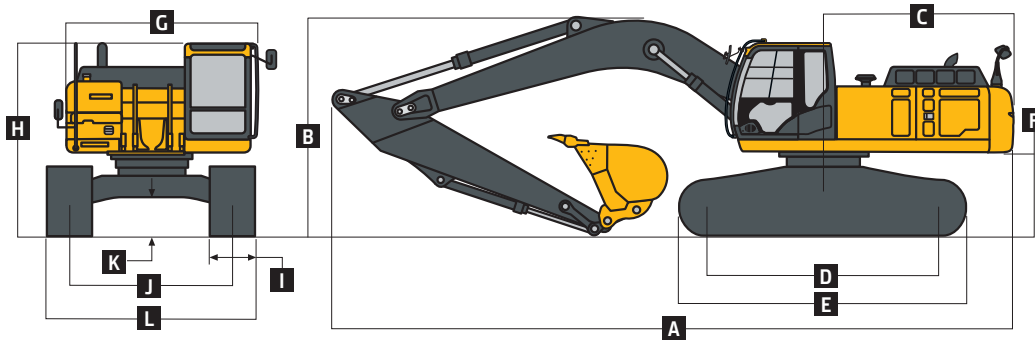
Operating Dimensions	
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Arm Length	2.66 m (8 ft. 9 in.)	3.2 m (10 ft. 6 in.)	4.0 m (13 ft. 1 in.)
Arm Digging Force			
SAE	204.2 kN (45,914 lb.)	177.6 kN (39,930 lb.)	152.6 kN (34,314 lb.)
ISO	222.0 kN (49,908 lb.)	185.0 kN (41,590 lb.)	159.0 kN (35,745 lb.)
Bucket Digging Force			
SAE	225.2 kN (50,628 lb.)	225.2 kN (50,628 lb.)	225.2 kN (50,628 lb.)
ISO	246.0 kN (55,303 lb.)	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)	12 790 kg (28,197 lb.)	12 800 kg (28,219 lb.)	12 851 kg (28,331 lb.)
A Maximum Reach	10.57 m (34 ft. 8 in.)	11.10 m (36 ft. 5 in.)	11.86 m (38 ft. 11 in.)
A' Maximum Reach at Ground Level	10.36 m (34 ft. 0 in.)	10.89 m (35 ft. 9 in.)	11.67 m (38 ft. 3 in.)
B Maximum Digging Depth	6.84 m (22 ft. 5 in.)	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	6.64 m (21 ft. 9 in.)	7.21 m (23 ft. 8 in.)	8.04 m (26 ft. 5 in.)
C Maximum Cutting Height	9.99 m (32 ft. 9 in.)	10.36 m (34 ft. 0 in.)	10.75 m (35 ft. 3 in.)
D Maximum Dumping Height	6.94 m (22 ft. 9 in.)	7.24 m (23 ft. 9 in.)	7.63 m (25 ft. 0 in.)
E Minimum Swing Radius	4.61 m (15 ft. 1 in.)	4.46 m (14 ft. 8 in.)	4.47 m (14 ft. 8 in.)
F Maximum Vertical Wall	5.51 m (18 ft. 1 in.)	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.)	3.60 m (11 ft. 10 in.)



Machine Dimensions 350G LC

A Overall Length		
2.66 m (8 ft. 9 in.)	11.33 m (37 ft. 2 in.)	
3.2 m (10 ft. 6 in.)	11.20 m (36 ft. 9 in.)	
4.0 m (13 ft. 1 in.)	11.29 m (37 ft. 1 in.)	
B Overall Height		
2.66 m (8 ft. 9 in.)	3.47 m (11 ft. 5 in.)	
3.2 m (10 ft. 6 in.)	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	3.14 m (10 ft. 4 in.)	
I Track Width with Triple Semi-Grouser Shoes	800 mm (32 in.)	
J Gauge Width	2.59 m (8 ft. 6 in.)	
K Ground Clearance	0.50 m (20 in.)	
L Overall Width with Triple Semi-Grouser Shoes		
600 mm (24 in.)	3.19 m (10 ft. 6 in.)	
800 mm (32 in.)	3.39 m (11 ft. 2 in.)	



Lift Capacities

Boldface type indicates hydraulically limited capacity; **lightface type** indicates stability-limited capacities, in kg (lb.). Ratings at bucket lift hook; machine equipped with 1160-kg (2,557 lb.) bucket and 800-mm (32 in.) 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. All lift capacities are based on ISO 10567.

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.)	
	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 2.66-m (8 ft. 9 in.) arm</i>												
6.0 m (20 ft.)							9496	9213	8705	6162		
							(20,636)	(19,803)	(19,093)	(13,179)		
4.5 m (15 ft.)					14 206	14 021	10 894	8801	9279	6021		
					(30,447)	(30,255)	(23,562)	(18,960)	(20,190)	(12,922)		
3.0 m (10 ft.)					17 742	12 827	12 506	8285	9573	5798		
					(38,067)	(27,693)	(27,011)	(17,857)	(20,571)	(12,462)		
1.5 m (5 ft.)							13 399	7868	9319	5570		
							(28,794)	(16,949)	(20,037)	(11,982)		
Ground Line					18 814	11 932	13 127	7634	9155	5423		
					(42,867)	(25,647)	(28,197)	(16,432)	(19,685)	(11,666)		
-1.5 m (-5 ft.)			12 495	12 495	18 754	11 959	13 059	7575	9117	5389		
			(28,545)	(28,545)	(40,705)	(25,693)	(28,045)	(16,301)	(19,617)	(11,605)		
-3.0 m (-10 ft.)			21 868	21 868	16 665	12 147	12 606	7679				
			(47,544)	(47,544)	(36,066)	(26,109)	(27,142)	(16,540)				
-4.5 m (-15 ft.)			16 500	16 500	12 776	12 551						
			(35,354)	(35,354)	(27,209)	(27,027)						
<i>With 3.2-m (10 ft. 6 in.) arm</i>												
6.0 m (20 ft.)									8008	6249		
									(17,528)	(13,381)		
4.5 m (15 ft.)							10 108	8940	8700	6077		
							(21,858)	(19,242)	(18,923)	(13,042)		
3.0 m (10 ft.)					16 457	13 179	11 834	8402	9604	5832	7003	4180
					(35,331)	(28,428)	(25,561)	(18,102)	(20,664)	(12,529)	(15,009)	(8,936)
1.5 m (5 ft.)					19 033	12 300	13 321	7933	9338	5579	6882	4069
					(41,053)	(26,492)	(28,796)	(17,084)	(20,070)	(11,995)	(14,768)	(8,714)
Ground Line					19 818	11 930	13 140	7635	9132	5395	6794	3988
					(42,912)	(25,649)	(28,219)	(16,430)	(19,628)	(11,598)	(14,592)	(8,553)
-1.5 m (-5 ft.)			11 956	11 956	19 291	11 864	13 002	7516	9042	5314		
			(27,138)	(27,138)	(41,824)	(25,490)	(27,916)	(16,168)	(19,442)	(11,431)		
-3.0 m (-10 ft.)	14 280	14 280	19 673	19 673	17 649	11 988	13 051	7558	9105	5371		
	(32,048)	(32,048)	(44,674)	(44,674)	(38,194)	(25,762)	(28,032)	(16,269)	(19,608)	(11,580)		
-4.5 m (-15 ft.)			19 521	19 521	14 491	12 307	10 645	7794				
			(41,956)	(41,956)	(31,054)	(26,481)	(22,511)	(16,823)				

Lift Capacities (continued) 350G LC

Boldface type indicates hydraulically limited capacity; lightface type indicates stability-limited capacities, in kg (lb.). Ratings at bucket lift hook; machine equipped with 1160-kg (2,557 lb.) bucket and 800-mm (32 in.) 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. All lift capacities are based on ISO 10567.

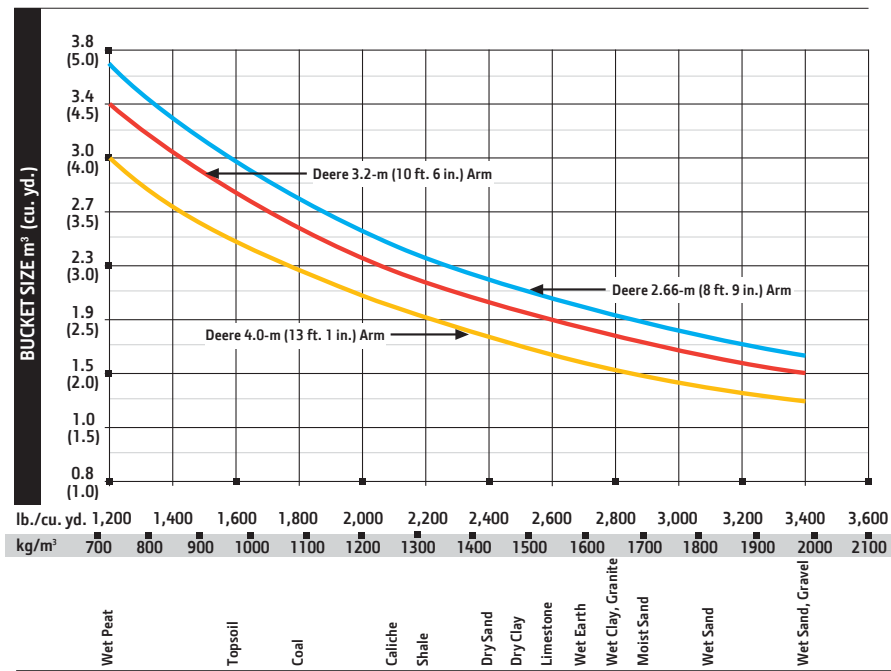
Load Point Height	1.5 m (5 ft.)		3.0 m (10 ft.)		4.5 m (15 ft.)		6.0 m (20 ft.)		7.5 m (25 ft.)		9.0 m (30 ft.)													
	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side												
Horizontal Distance from Centerline of Rotation																								
With 4.0-m (13 ft. 1 in.) arm																								
6.0 m (20 ft.)									7015 (15,348)		6409 (13,734)		5727 (11,021)		4442 (9,453)									
4.5 m (15 ft.)									8838 (16,997)		6203 (13,312)		7212 (15,462)		4370 (9,335)									
3.0 m (10 ft.)					14 409 (30,952)		13 717 (29,563)		10 708 (23,138)		8612 (18,543)		8838 (19,174)		7070 (15,160)		4234 (9,058)							
1.5 m (5 ft.)					17 673 (38,094)		12 624 (27,185)		12 469 (26,955)		8065 (17,362)		9401 (20,198)		5626 (12,090)		6904 (14,815)		4082 (8,741)					
Ground Line			6735 (15,416)		6735 (15,416)		19 386 (41,927)		12 004 (25,812)		13 195 (28,331)		7669 (16,500)		9133 (19,623)		5386 (11,573)		6766 (14,526)		3955 (8,476)			
-1.5 m (-5 ft.)	6807 (15,227)		6807 (15,227)		10 880 (24,662)		10 880 (24,662)		19 638 (42,536)		11 769 (25,286)		12 949 (27,797)		7458 (16,037)		8974 (19,285)		5244 (11,269)		6692 (14,381)		3887 (8,342)	
-3.0 m (-10 ft.)	11 398 (25,572)		11 398 (25,572)		16 291 (36,941)		16 291 (36,941)		18 694 (40,455)		11 779 (25,307)		12 899 (27,693)		7414 (15,947)		8945 (19,236)		5218 (11,226)					
-4.5 m (-15 ft.)	16 873 (38,021)		16 873 (38,021)		23 293 (50,183)		23 293 (50,183)		16 436 (35,373)		11 987 (25,775)		12 165 (26,067)		7536 (16,233)		8817 (18,456)		5356 (11,576)					
-6.0 m (-20 ft.)					16 669 (35,135)		16 669 (35,135)		12 038 (25,239)		12 038 (25,239)													

Buckets

A full line of buckets is offered to meet a wide variety of applications. Digging forces are with power boost. Tooth selection includes the John Deere Fanggs™ Standard, Tiger, Twin Tiger, Abrasion panel, or Flare tooth. 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 2.66 m (8 ft. 9 in.)		Arm Dig Force 3.2 m (10 ft. 6 in.)		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.	kN	lb.			mm
Heavy Duty	914	36	1.13	1.5	971	2,140	225.2	496	204.2	450	177.6	392	152.6	337	1600	63.0	4
Heavy Duty	1067	42	1.34	1.7	1003	2,212	225.2	496	204.2	450	177.6	392	152.6	337	1600	63.0	5
Heavy Duty	1219	48	1.55	2.0	1055	2,326	225.2	496	204.2	450	177.6	392	152.6	337	1600	63.0	6
Heavy Duty	1372	54	1.76	2.3	1161	2,559	225.2	496	204.2	450	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	196.6	433	171.7	379	148.3	327	1765	69.5	4
Heavy Duty High Capacity	915	36	1.19	1.6	1263	2,783	204.2	450	196.6	433	171.7	379	148.3	327	1765	69.5	4
Heavy Duty High Capacity	1065	42	1.41	1.8	1416	3,123	204.2	450	196.6	433	171.7	379	148.3	327	1765	69.5	5
Heavy Duty High Capacity	1220	48	1.64	2.1	1506	3,321	204.2	450	196.6	433	171.7	379	148.3	327	1765	69.5	6
Heavy Duty High Capacity	1372	54	1.87	2.4	1617	3,565	204.2	450	196.6	433	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.