250G LC/300G LC

26 250–31 150-kg (57,800–68,674 lb.) Operating Weight

JOHN DEERE

Accelerate your profitability.

With powerful digging forces, swing torques, and lift capacities making the most of every gallon of fuel, the 250G LC and 300G LC Excavators will fast-track your bottom line. Rugged EPA Final Tier 4 (FT4)/EU Stage IV PowerTech™ diesel engines meet rigid emission regulations, enabling you to work, wherever there's work — without compromising power, reliability, or ease of operation. Customer-inspired refinements include comfortable, spacious cabs. And refined LCD monitors with simplified navigation that let an operator easily dial-in to a wealth of machine information and functionality. But that's only the beginning. To learn all there is to know about the G-Series Excavator lineup, make tracks to your John Deere dealer.

Specifications	250G LC	300G LC
Net Rated Power	140 kW (188 hp)	166 kW (223 hp)
Operating Weight	26 250 kg (57,800 lb.)	31 150 kg (68,674 lb.)
Maximum Digging Depth	7.61 m (25 ft. 0 in.)	7.87 m (25 ft. 10 in.)
Arm Digging Force	112.2–114 kN (25,224–25,628 lb.)	121–127 kN (27,202–28,551 lb.)
Bucket Digging Force	164–189 kN (36,869–42,489 lb.)	175–202 kN (39,342–45,411 lb.)

Got a lot on your plate? Dig in.

If you need to serve up more productivity, the 250G LC and 300G LC have insatiable appetites for work. Optimized hydraulics yield more muscle, so you can get in, get done, and get on to the next job. Even with their extra ability, these excavators don't compromise the smooth control and multifunction capability that have become the trademarks of John Deere excavators. And if you're hungry for even more productivity, add any of the many options and pile even more on your plate.

Choose from a variety of track widths, arm lengths, buckets, high-flow auxiliary hydraulic packages, and other options.

Powerwise™ III perfectly balances engine performance and hydraulic flow for predictable operation. Three productivity modes allow you to choose the digging style that fits the job. **High-productivity** delivers more power and faster hydraulic response to move more material. **Power** delivers a balance of power, speed, and fuel economy for normal operation. **Economy** limits top speed and helps save fuel.

Machine Information Center (MIC) captures and stores vital machine performance and utilization data to help improve productivity, uptime, and profit.

New 300G LC delivers 19-percent more horsepower and 17-percent more swing torque than the 290G LC it replaces, for even more productivity. Larger pumps similar to those on the 350G LC boost hydraulic horsepower.

1. For work that requires extra finesse, the G-Series' short-throw low-effort controls, unmatched metering, and smooth multifunction operation give the precision you need.

2. Generous flow, arm force, and swing torque help speed cycles. So you can do your best to stay on schedule or ahead of the weather.

3. When the digging gets tough, simply press the power-boost button on the right-hand control and muscle through.

Operating ease takes a turn for the better.

G-Series Excavators make it easy for your operators to "dial things up." The refined monitor employs a rotary control that makes it quick and easy to tap into an abundance of performance and convenience functions and features. Operators will also appreciate the comfortable fabric-covered high-back seat and generous legroom in the spacious, well-appointed cab. As always, unsurpassed all-round visibility, low-effort joysticks, a highly efficient HVAC system, and numerous other amenities provide everything your operators need to do their best work.

With generous legroom, the spacious cab delivers daylong convenience and comfort. Silicone-filled mounts effectively isolate operators from noise and vibration.

We've got your back with a sculpted mechanical-suspension high-back seat. Seat has 318 mm (12½ in.) of travel, sliding together or independent of the joystick console. For even more support and comfort, opt for the air-suspension heated seat.

No shortage of storage in here. There's a place for a cooler, cup holders, and even a hot/cold box that keeps beverages at just the right temperature.

Optional cab and right-side boom lights provide extra illumination to extend your workday beyond normal daylight hours. Engine-compartment light makes it easy to see daily service points in low-light conditions.

New hood design ensures optimal visibility to the sides and rear, even with the increased under-the-hood space requirements of EPA Final Tier 4 (FT4)/EU Stage IV components.

Programmable thumb-attachment mode allows you to set oil flow within the monitor.

1. Multi-language LCD monitor and rotary dial provide intuitive access to a wealth of information and functions. Just turn and tap to select work mode, access operating info, check maintenance intervals, source diagnostic codes, adjust cab temperature, and tune the radio. Plus much more.

2. Wide expanse of front and side glass, narrow front cab posts, large overhead glass, and numerous mirrors provide virtually unobstructed all-around visibility. If you need to see more, choose the optional camera that displays the action behind on the monitor.

3. Ergonomically correct short-throw pilot levers provide smooth, precise fingertip control with less movement or effort. Push buttons in the right lever allow predictable control of auxiliary hydraulic flow for operating attachments. Optional sliding switch provides proportional speed control, giving you full command at your fingertips.

4. Automatic, high-velocity bi-level climate-control system with automotive-style adjustable louvers helps keep the glass clear and the cab comfortable.

Nothing runs like a Deere, because nothing is built like one.

Got places to go, people to see, and schedules to keep? Add these go-getters to your lineup. Built to deliver unsurpassed uptime, these dependable workers employ many of the same job-proven digging structures and hydraulic, electrical, and undercarriage components as their highly regarded predecessors. You'll also continue to profit from durability-enhancing "extras" such as tungsten-carbide-coated wear surfaces, welded-boom bulkheads, wet-sleeve engine liners, and extended service intervals. When you know how they're built, you'll run a Deere.

A John Deere exclusive, three welded bulkheads within the boom resist torsional stress for unsurpassed durability. Booms, arms, and mainframes are so tough, they're warranted for three years or 10,000 hours.

Graphite-iron wet-sleeve cylinder liners, mono-steel pistons, and large-diameter connecting rods ensure long-term engine durability.

Cool-on-demand hydraulic-driven fan provides optimum cooling while reducing noise and conserving fuel.

Optional grade-reference system includes sensor mounts to help speed installation, eliminating the need to grind, weld, and repaint. Our "open-architecture" design allows you to employ your favorite brand of grade-control system to help maximize productivity and uptime while lowering daily operating costs.

To meet stringent EPA Final Tier 4 (FT4)/EU Stage IV standards, we built on our Interim Tier 4 (IT4)/ Stage IIIB solution to deliver the best combination of performance, efficiency, and reliability without sacrificing power or torque. Our field-proven technology is simple, fluid efficient, fully integrated, and fully supported. It employs field-proven cooled exhaust gas recirculation (EGR), easy-to-maintain high-uptime exhaust filters, and selective catalytic reduction (SCR).

Oil-impregnated bushings enhance durability and extend grease intervals to 500 hours for the arm-and-boom joint and 100 hours for the bucket joint.

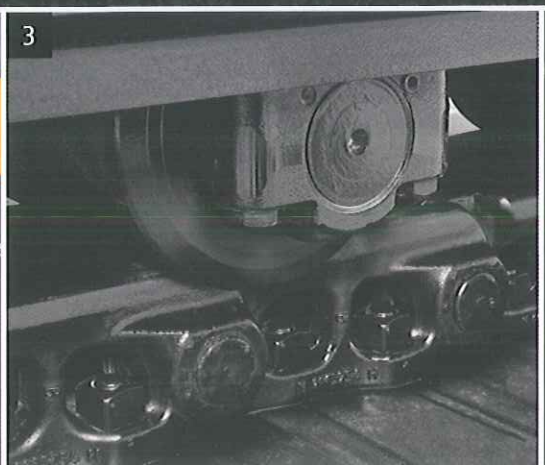
Tungsten-carbide coating creates an extremely wear-resistant surface to protect the all-important bucket-to-arm joint.

1. Reinforced D-channel side frames with recessed doors provide maximum cab and component protection.

2. Thick-plate single-sheet mainframe, box-section track frames, and industry-exclusive double-seal swing bearing deliver rock-solid durability.

3. With large idlers, rollers, and strutted links, the sealed and lubricated undercarriage delivers long and reliable performance.

4. Optional hydraulic reversing fan feature allows the operator to automatically back blow the cooling cores to improve uptime.



You'll become a big fan of the G-Series' low maintenance.

Swing open the side panels and you'll discover many of the numerous ways these excavators can minimize maintenance, increase uptime, and reduce daily operating costs. Hydraulically driven fan runs only as fast or often as needed, reducing fuel consumption and wear-causing debris flow through the cooler cores. Grouped service points make quick work of the daily routine. Easy-to-check sight gauges and fluid reservoirs. Quick-change remote-mounted filters. Convenient fluid-sample ports and advanced self-diagnostics — with time- and money-saving advantages such as these, and a dealer-customized Ultimate Uptime package to help optimize your operation, there's more to like.

1. LCD monitor tracks scheduled maintenance intervals and issues reminders, including DPF servicing. Should a problem arise, it provides diagnostic information to help decrease downtime.

2. Easily accessible fluid-sample ports and in-cab diagnostic displays help speed preventative maintenance and defeat downtime.

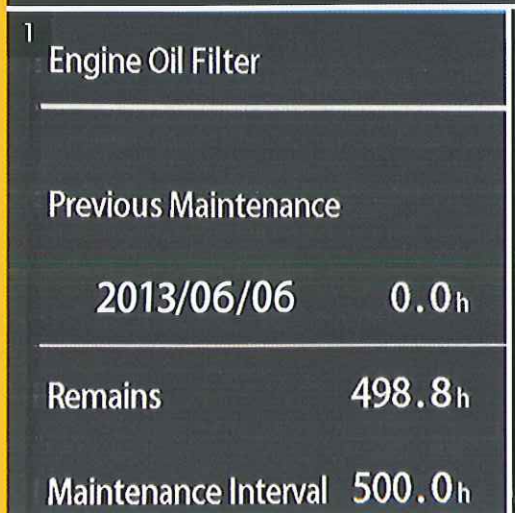
3. Fresh-air cab filter is quickly serviced from outside the cab. Where it's more likely to get done.

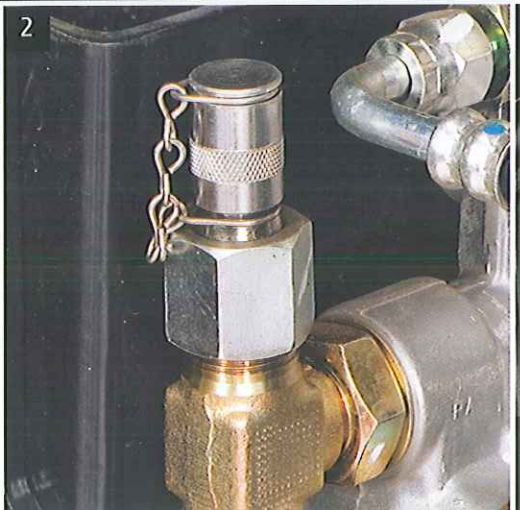
4. Vertical spin-on fuel and engine oil filters are positioned in the right rear compartment for simplified ground-level servicing.

5. Centralized lube banks place difficult-to-lube zerks within easy reach. They make greasing less messy and time consuming, too.

6. Diesel exhaust fluid (DEF) can be conveniently filled when refueling due to its large and accessible tank. DEF overflow routes excess outside the machine to avoid paint damage.

Ash-service intervals for the diesel particulate filter (DPF) are condition based, with the machine notifying the operator before service is required. Typically, ash service is not necessary until the first engine overhaul depending on machine application and maintenance practices. FT4 components are warranted for 10,000 hours.





Large fuel tanks and 500- and 5,000-hour engine and hydraulic oil-service intervals decrease downtime for routine maintenance. Fluid-level sight gauges are conveniently located and can be checked at a glance.

Larger hood enables greater access to engine components for easy daily service and the ability to inspect the engine, drive belt, and coolant and oil levels from one location.

Upper-structure handrails provide three points of contact when accessing the engine compartment. Slip-resistant surfaces help improve stability.

Auto-idle automatically reduces engine speed when hydraulics aren't in use. Auto-shutdown further preserves precious fuel.

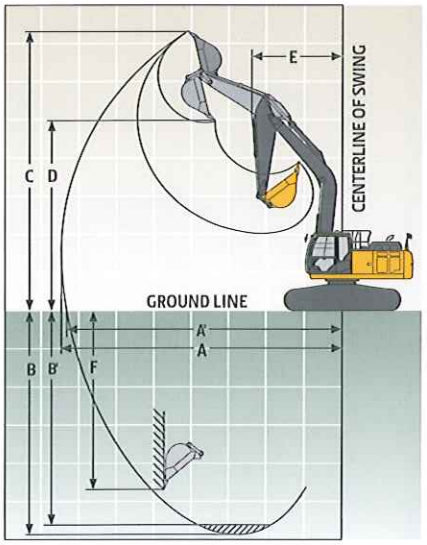
Optional reversing fan back-blows cooler cores to reduce debris buildup. It's a welcome addition that helps increase uptime.

250G LC

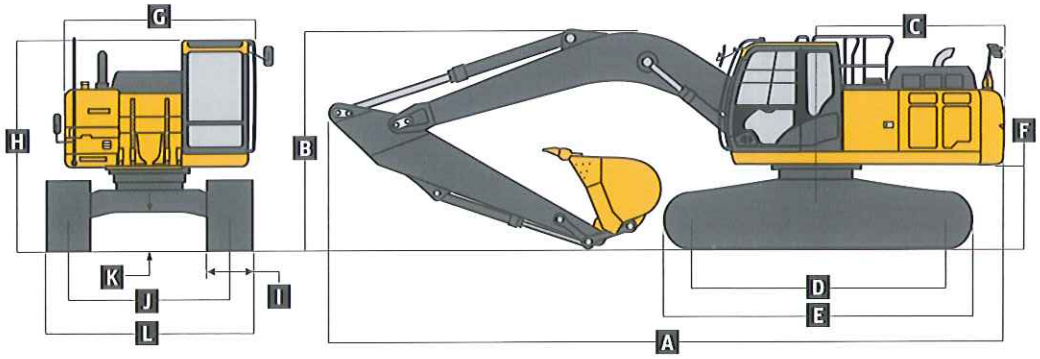
Engine	250G LC		
	Base engine for use in U.S., U.S. Territories, and Canada		**Optional engine for use outside the U.S. and U.S. Territories**
Manufacturer and Model	John Deere PowerTech™ PVS 6.8 L		John Deere PowerTech™ Plus 6.8 L
Non-Road Emission Standard	EPA Final Tier 4/EU Stage IV		EPA Tier 3/EU Stage IIIA
Net Rated Power (ISO 9249)	140 kW (188 hp) at 2,100 rpm		132 kW (177 hp) at 2,000 rpm
Cylinders	6		6
Displacement	6.8 L (415 cu. in.)		6.8 L (415 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	3.3 km/h (2.1 mph)		
High	5.5 km/h (3.4 mph)		
Drawbar Pull	21 900 kg (48,300 lb.)		
Hydraulics			
Open center, load sensing			
Main Pumps	2 variable-displacement pumps		
Maximum Rated Flow	224 L/m (59.2 gpm) x 2		
System Operating Pressure			
Circuits			
Implement	34 300 kPa (4,975 psi)		
Travel	35 000 kPa (5,076 psi)		
Swing	32 400 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			
	Bore	*Rod Diameter*	*Stroke*
Boom (2)	125 mm (4.9 in.)	90 mm (3.5 in.)	1390 mm (54.7 in.)
Arm (1)	140 mm (5.5 in.)	100 mm (3.9 in.)	1610 mm (63.4 in.)
Bucket (1)	130 mm (5.1 in.)	90 mm (3.5 in.)	1075 mm (42.3 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	9		
Shoes, Triple Semi-Grousers (each side)	51		
Track			
Adjustment	Hydraulic		
Guides	2 per side		
Chain	Sealed and lubricated		
Ground Pressure			
Triple Semi-Grouser Shoes			
600 mm (23 in.)	50.8 kPa (7.36 psi)		
700 mm (28 in.)	44.6 kPa (6.47 psi)		
800 mm (32 in.)	39.1 kPa (5.66 psi)		

Swing Mechanism	250G LC
Speed	13.5 rpm
Torque	77 500 Nm (57,150 lb.-ft.)
Serviceability	
Refill Capacities	
Fuel Tank	500 L (132 gal.)
Diesel Exhaust Fluid (DEF) Tank	35 L (9.3 gal.)
Cooling System	23 L (6 gal.)
Engine Oil with Filter	19.5 L (5.2 gal.)
Hydraulic Tank	147.6 L (39 gal.)
Hydraulic System	240 L (63 gal.)
Swing Drive	7 L (7.5 qt.)
Gearbox	
Propel (each)	6.2 L (6.5 qt.)
Pump Drive	1.1 L (1.2 qt.)
Operating Weights	
With full fuel tank; 79-kg (175 lb.) operator; 1.06-m³ (1.38 cu. yd.), 1219-mm (48 in.), 1107-kg (2,440 lb.) bucket; 3.61-m (11 ft. 10 in.) arm; 5112-kg (11,270 lb.) counterweight; and 800-mm (32 in.) triple semi-grouser shoes	
Operating Weight	26 250 kg (57,800 lb.)
Component Weights	
Undercarriage with Triple Semi-Grouser Shoes	
600 mm (24 in.)	8077 kg (17,807 lb.)
700 mm (28 in.)	8467 kg (18,667 lb.)
800 mm (32 in.)	8752 kg (19,294 lb.)
One-Piece Boom (with arm cylinder)	2210 kg (4,872 lb.)
Arm with Bucket Cylinder and Linkage	
2.50 m (8 ft. 2 in.)	1225 kg (2,701 lb.)
2.96 m (9 ft. 9 in.)	1296 kg (2,858 lb.)
3.61 m (11 ft. 10 in.)	1396 kg (3,078 lb.)
Boom-Lift Cylinders (2), Total Weight	434 kg (958 lb.)

Operating Dimensions				
Arm Length		*2.50 m (8 ft. 2 in.)*	*2.96 m (9 ft. 9 in.)*	*3.61 m (11 ft. 10 in.)*
Arm Digging Force				
SAE		154.0 kN (34,621 lb.)	129.1 kN (29,023 lb.)	112.2 kN (25,224 lb.)
ISO		158.0 kN (35,520 lb.)	131.0 kN (29,450 lb.)	114.0 kN (25,628 lb.)
Bucket Digging Force				
SAE		164.0 kN (36,869 lb.)	164.0 kN (36,869 lb.)	164.0 kN (36,869 lb.)
ISO		189.0 kN (42,489 lb.)	189.0 kN (42,489 lb.)	189.0 kN (42,489 lb.)
A	Maximum Reach	9.88 m (32 ft. 5 in.)	10.29 m (33 ft. 9 in.)	10.91 m (35 ft. 10 in.)
A¹	Maximum Reach at Ground Level	9.69 m (31 ft. 9 in.)	10.11 m (33 ft. 2 in.)	10.75 m (35 ft. 3 in.)
B	Maximum Digging Depth	6.50 m (21 ft. 4 in.)	6.96 m (22 ft. 10 in.)	7.61 m (25 ft. 0 in.)
B¹	Maximum Digging Depth at 2.44-m (8 ft. 0 in.) Flat Bottom	6.26 m (20 ft. 6 in.)	6.75 m (22 ft. 2 in.)	7.44 m (24 ft. 5 in.)
C	Maximum Cutting Height	9.95 m (32 ft. 8 in.)	10.16 m (33 ft. 4 in.)	10.56 m (34 ft. 8 in.)
D	Maximum Dumping Height	6.99 m (22 ft. 11 in.)	7.20 m (23 ft. 7 in.)	7.58 m (24 ft. 10 in.)
E	Minimum Swing Radius	3.48 m (11 ft. 5 in.)	3.44 m (11 ft. 3 in.)	3.43 m (11 ft. 3 in.)
F	Maximum Vertical Wall	5.58 m (18 ft. 4 in.)	6.03 m (19 ft. 9 in.)	6.74 m (22 ft. 1 in.)



Machine Dimensions	250G LC		
Arm Length	*2.50 m (8 ft. 2 in.)*	*2.96 m (9 ft. 9 in.)*	*3.61 m (11 ft. 10 in.)*
A Overall Length	10.47 m (34 ft. 4 in.)	10.35 m (33 ft. 11 in.)	10.41 m (34 ft. 2 in.)
B Overall Height	3.37 m (11 ft. 1 in.)	3.07 m (10 ft. 1 in.)	3.14 m (10 ft. 4 in.)
C Tail-Swing Radius	3.14 m (10 ft. 4 in.)		
D Distance Between Idler/Sprocket Centerline	3.84 m (12 ft. 7 in.)		
E Undercarriage Length	4.64 m (15 ft. 3 in.)		
F Counterweight Clearance	1.09 m (3 ft. 7 in.)		
G Upperstructure Width	2.89 m (9 ft. 6 in.)		
H Cab Height	3.01 m (9 ft. 11 in.)		
I Track Width with Triple Semi-Grouser Shoes	600 mm (24 in.) / 700 mm (28 in.) / 800 mm (32 in.)		
J Gauge Width	2.59 m (8 ft. 6 in.)		
K Ground Clearance	0.46 m (18 in.)		
L Overall Width with Triple Semi-Grouser Shoes			
600 mm (24 in.)	3.19 m (10 ft. 6 in.)		
700 mm (28 in.)	3.29 m (10 ft. 9 in.)		
800 mm (32 in.)	3.39 m (11 ft. 1 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 851-kg (1,876 lb.) bucket; 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.

	HORIZONTAL DISTANCE FROM CENTERLINE OF ROTATION											
	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.)	
LOAD POINT HEIGHT	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 2.96-m (9 ft. 9 in.) arm and 800-mm (32 in.) shoes												
6.0 m (20 ft.)							**5040 (11,040)**	**5040 (11,040)**	**4190**	**4190**		
4.5 m (15 ft.)					**6990 (15,020)**	**6990 (15,020)**	**5830 (12,640)**	**5830 (12,640)**	**5280 (11,550)**	4230 (9,070)		
3.0 m (10 ft.)					**9370 (20,110)**	9360 (20,110)	**6930 (14,990)**	5910 (12,720)	**5810 (12,630)**	4070 (8,730)		
1.5 m (5 ft.)					**11 410 (24,580)**	8690 (18,720)	**8010 (17,320)**	5580 (12,010)	6220 (13,360)	3900 (8,370)		
Ground Line					**12 370 (26,750)**	8370 (17,990)	8730 (18,740)	5360 (11,520)	6080 (13,070)	3770 (8,110)		
–1.5 m (–5 ft.)			**8640 (19,680)**	**8640 (19,680)**	**12 380 (26,810)**	8290 (17,810)	8620 (18,510)	5260 (11,320)	6030 (12,960)	3720 (8,010)		
–3.0 m (–10 ft.)	**10 140 (22,820)**	**10 140 (22,820)**	**14 820 (33,800)**	**14 820 (33,800)**	**11 560 (25,000)**	8370 (18,000)	**8460 (18,230)**	5300 (11,400)				
–4.5 m (–15 ft.)			**13 500 (28,980)**	**13 500 (28,980)**	**9590 (20,500)**	8630 (18,570)						
With 3.61-m (11 ft. 10 in.) arm and 700-mm (28 in.) shoes												
6.0 m (20 ft.)							**4290 (9,400)**	**4290 (9,400)**	**3990 (8,480)**	**3990 (8,480)**		
4.5 m (15 ft.)							**5120 (11,100)**	**5120 (11,100)**	**4740 (10,300)**	4250 (9,120)		
3.0 m (10 ft.)					**8210 (17,640)**	**8210 (17,640)**	**6280 (13,580)**	5960 (12,820)	**5340 (11,610)**	4070 (8,730)	**3710 (7,190)**	2890 (6,170)
1.5 m (5 ft.)					**10 530 (22,680)**	8780 (18,910)	**7480 (16,180)**	5580 (12,020)	**6000 (13,020)**	3870 (8,310)	**4350 (8,490)**	2790 (5,980)
Ground Line			**4660 (10,740)**	**4660 (10,740)**	**11 950 (25,830)**	8310 (17,870)	**8400 (18,180)**	5300 (11,410)	6000 (12,660)	3710 (7,970)	**4260 (7,770)**	2720 (5,830)
–1.5 m (–5 ft.)	**4520 (10,150)**	**4520 (10,150)**	**7870 (17,910)**	**7870 (17,910)**	**12 390 (26,820)**	8130 (17,470)	8480 (17,890)	5150 (11,080)	5900 (12,450)	3620 (7,780)		
–3.0 m (–10 ft.)	**8200 (18,440)**	**8200 (18,440)**	**12 340 (28,100)**	**12 340 (28,100)**	**11 980 (25,910)**	8140 (17,490)	8450 (17,840)	5130 (11,040)	5900 (12,480)	3620 (7,810)		
–4.5 m (–15 ft.)	**12 810 (28,980)**	**12 810 (28,980)**	**15 370 (33,080)**	**15 370 (33,080)**	**10 590 (22,760)**	8320 (17,890)	**7640 (16,280)**	5250 (11,330)				
–6.0 m (–20 ft.)					**7300**	**7300**						

Lift Capacities *(continued)* 250G LC

Boldface type indicates hydraulically limited capacity; lightface type indicates stability-limited capacities, in kg (lb.). Ratings at bucket lift hook; machine equipped with 851-kg (1,876 lb.) bucket; 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.

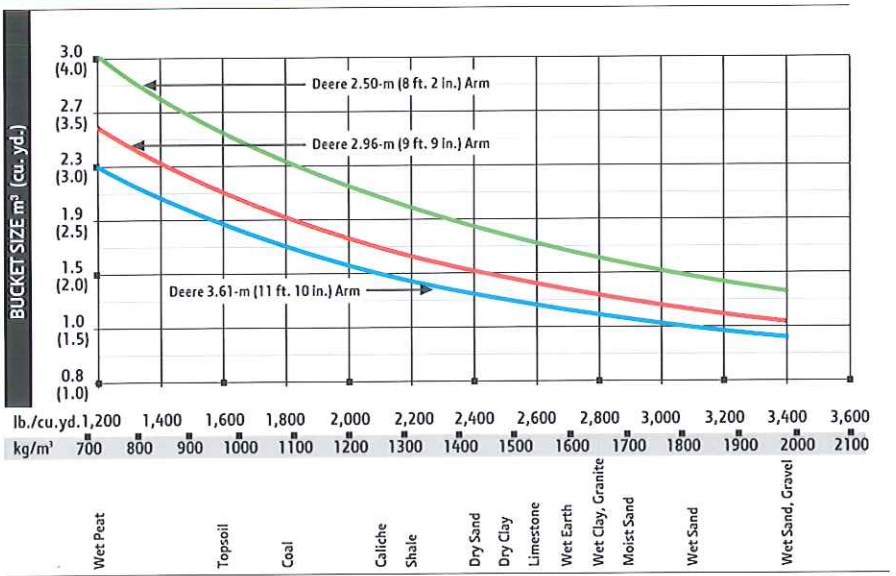
	HORIZONTAL DISTANCE FROM CENTERLINE OF ROTATION											
	1.5 m (5 ft.)		3.0 m (10 ft.)		4.5 m (15 ft.)		6.0 m (20 ft.)		7.5 m (25 ft.)		9.0 m (30 ft.)	
LOAD POINT HEIGHT	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
With 3.61-m (11 ft. 10 in.) arm and 800-mm (32 in.) shoes												
6.0 m (20 ft.)							**4290 (9,400)**	**4290 (9,400)**	**3990 (8,480)**	**3990 (8,480)**		
4.5 m (15 ft.)							**5120 (11,100)**	**5120 (11,100)**	**4740 (10,300)**	4300 (9,230)		
3.0 m (10 ft.)			**(28,820)**	**(28,820)**	**8210 (17,640)**	**8210 (17,640)**	**6280 (13,580)**	6020 (12,960)	**5340 (11,610)**	4120 (8,840)	**3710 (7,190)**	2930 (6,250)
1.5 m (5 ft.)					**10 530 (22,680)**	8870 (19,110)	**7480 (16,180)**	5650 (12,150)	**6000 (13,020)**	3920 (8,420)	**4350 (8,490)**	2830 (6,060)
Ground Line			**4660 (10,740)**	**4660 (10,740)**	**11 950 (25,830)**	8410 (18,080)	**8400 (18,180)**	5370 (11,540)	6070 (13,050)	3760 (8,070)	**4260 (7,770)**	2760 (5,910)
–1.5 m (–5 ft.)	**4520 (10,150)**	**4520 (10,150)**	**7870 (17,910)**	**7870 (17,910)**	**12 390 (26,820)**	8220 (17,670)	8580 (18,420)	5220 (11,220)	5970 (12,840)	3670 (7,880)		
–3.0 m (–10 ft.)	**8200 (18,440)**	**8200 (18,440)**	**12 340 (28,100)**	**12 340 (28,100)**	**11 980 (25,910)**	8240 (17,700)	8550 (18,370)	5200 (11,180)	5980 (12,870)	3670 (7,910)		
–4.5 m (–15 ft.)	**12 810 (28,980)**	**12 810 (28,980)**	**15 370 (33,080)**	**15 370 (33,080)**	**10 590 (22,760)**	8410 (18,090)	**7640 (16,280)**	5320 (11,470)				
–6.0 m (–20 ft.)					**7300**	**7300**						

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 TK-Series Bucket 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, 2.50 m (8 ft. 2 in.)		Arm Dig Force, 2.96 m (9 ft. 9 in.)		Arm Dig Force, 3.61 m (11 ft. 10 in.)		Bucket Tip Radius		Number of Teeth
	mm	in.	m^3	cu. yd.	kg	lb.	kN	lb.	kN	lb.	kN	lb.	kN	lb.	mm	in.	
Heavy Duty	1065	42	1.06	1.4	997	2,197	176.0	39,558	154.0	34,621	129.1	29,021	112.2	25,220	1435	56.5	5
	1220	48	1.22	1.6	1071	2,361	176.0	39,558	154.0	34,621	129.1	29,021	112.2	25,220	1435	56.5	6
	1372	54	1.39	1.8	1138	2,509	176.0	39,558	154.0	34,621	129.1	29,021	112.2	25,220	1435	56.5	6
Heavy Duty High Capacity	610	24	0.70	0.9	801	1,767	167.4	37,636	148.2	33,317	124.7	28,044	108.9	24,477	1588	62.5	3
	760	30	0.92	1.2	913	2,012	167.4	37,636	148.2	33,317	124.7	28,044	108.9	24,477	1588	62.5	4
	914	36	1.13	1.5	968	2,135	167.4	37,636	148.2	33,317	124.7	28,044	108.9	24,477	1588	62.5	4
	1065	42	1.34	1.7	1035	2,281	167.4	37,636	148.2	33,317	124.7	28,044	108.9	24,477	1588	62.5	5
	1220	48	1.55	2.0	1137	2,507	167.4	37,636	148.2	33,317	124.7	28,044	108.9	24,477	1588	62.5	6

Bucket Selection Guide*



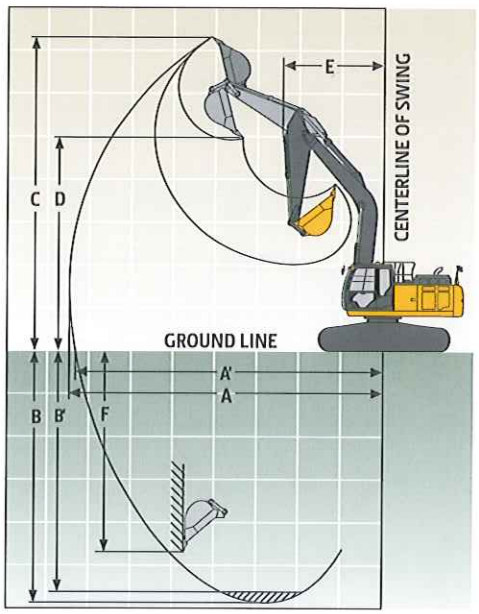
*Contact your John Deere dealer for optimum bucket and attachment selections. These recommendations are for general conditions and average use. Does not include optional equipment such as thumbs or couplers. Larger buckets may be possible when using light materials, for flat and level operations, less 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.

300G LC

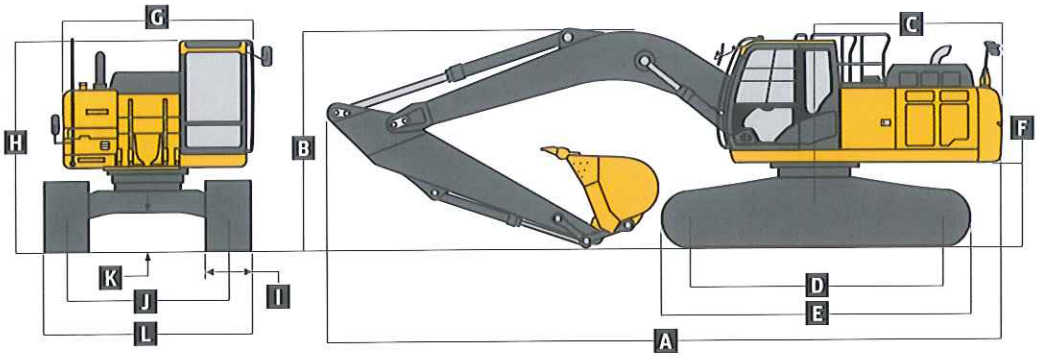
Engine	300G LC		
	Base engine for use in U.S., U.S. Territories, and Canada		
Manufacturer and Model	John Deere PowerTech™ PSS 6.8L, 6068HT107		
Non-Road Emission Standard	EPA Final Tier 4/EU Stage IV		
Net Rated Power (ISO 9249)	166 kW (223 hp) at 1,900 rpm		
Cylinders	6		
Displacement	6.8 L (415 cu. in.)		
Off-Level Capacity	70% (35 deg.)		
Aspiration	Series 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	3.1 km/h (1.9 mph)		
High	5.2 km/h (3.2 mph)		
Drawbar Pull	25 085 kg (55,303 lb.)		
Hydraulics			
Open center, load sensing			
Main Pumps	2 variable-displacement pumps		
Maximum Rated Flow	236 L/m (62.3 gpm) x 2		
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			
	Bore	*Rod Diameter*	*Stroke*
Boom (2)	135 mm (5.3 in.)	95 mm (3.7 in.)	1422 mm (56.0 in.)
Arm (1)	150 mm (5.9 in.)	105 mm (4.1 in.)	1659 mm (65.3 in.)
Bucket (1)	135 mm (5.3 in.)	90 mm (3.5 in.)	1070 mm (42.1 in.)
Electrical			
Number of Batteries (12 volt)	2		
Battery Capacity	1,000 CCA		
Alternator Rating	100 amp		
Work Lights	2 halogen (one mounted on left-hand side of boom, one on frame)		
Undercarriage			
Rollers (each side)			
Carrier	2		
Track	8		
Shoes, Triple Semi-Grousers (each side)	48		
Track			
Adjustment	Hydraulic		
Guides	2 per side		
Chain	Sealed and lubricated		
Ground Pressure			
Triple Semi-Grouser Shoes			
700 mm (28 in.)	50.0 kPa (7.26 psi)		
800 mm (32 in.)	43.8 kPa (6.35 psi)		

Swing Mechanism	300G LC
Speed	10.3 rpm
Torque	90 500 Nm (66,749 lb.-ft.)
Serviceability	
Refill Capacities	
Fuel Tank	514 L (136 gal.)
Diesel Exhaust Fluid (DEF) Tank	35 L (9.2 gal.)
Cooling System	36 L (9.5 gal.)
Engine Oil with Filter	20.5 L (5 gal.)
Hydraulic Tank	156 L (41 gal.)
Hydraulic System	290 L (77 gal.)
Swing Drive	12 L (12.7 qt.)
Gearbox	
Propel (each)	9.2 L (9.7 qt.)
Pump Drive	1.1 L (1.2 qt.)
Operating Weights	
With full fuel tank; 79-kg (175 lb.) operator; 1.44-m³ (1.88 cu. yd.), 1067-mm (42 in.), 1158-kg (2,553 lb.) bucket; 3.76-m (12 ft. 4 in.) arm; 5600-kg (12,346 lb.) counterweight; and 800-mm (32 in.) triple semi-grouser shoes	
Operating Weight	31 150 kg (68,674 lb.)
Component Weights	
Undercarriage with Triple Semi-Grouser Shoes	
700 mm (28 in.)	11 478 kg (25,305 lb.)
800 mm (32 in.)	11 881 kg (26,193 lb.)
One-Piece Boom (with arm cylinder)	2322 kg (5,119 lb.)
Arm with Bucket Cylinder and Linkage	
3.11 m (10 ft. 2 in.)	1288 kg (2,840 lb.)
3.76 m (12 ft. 4 in.)	1377 kg (3,036 lb.)
Boom-Lift Cylinders (2), Total Weight	490 kg (1,080 lb.)

Operating Dimensions			
Arm Length		*3.11 m (10 ft. 2 in.)*	*3.76 m (12 ft. 4 in.)*
Arm Digging Force			
SAE		138 kN (31,024 lb.)	121 kN (27,202 lb.)
ISO		144 kN (32,372 lb.)	127 kN (28,551 lb.)
Bucket Digging Force			
SAE		175 kN (39,342 lb.)	175 kN (39,342 lb.)
ISO		202 kN (45,411 lb.)	202 kN (45,411 lb.)
A	Maximum Reach	10.71 m (35 ft. 2 in.)	11.27 m (37 ft. 0 in.)
A'	Maximum Reach at Ground Level	10.52 m (34 ft. 6 in.)	11.09 m (36 ft. 5 in.)
B	Maximum Digging Depth	7.22 m (23 ft. 8 in.)	7.87 m (25 ft. 10 in.)
B'	Maximum Digging Depth at 2.44-m (8 ft. 0 in.) Flat Bottom	7.04 m (23 ft. 1 in.)	7.71 m (25 ft. 4 in.)
C	Maximum Cutting Height	10.27 m (33 ft. 8 in.)	10.47 m (34 ft. 4 in.)
D	Maximum Dumping Height	7.33 m (24 ft. 1 in.)	7.54 m (24 ft. 9 in.)
E	Minimum Swing Radius	3.90 m (12 ft. 10 in.)	3.89 m (12 ft. 9 in.)
F	Maximum Vertical Wall	6.48 m (21 ft. 3 in.)	7.05 m (23 ft. 2 in.)



Machine Dimensions	300G LC	
Arm Length	*3.11 m (10 ft. 2 in.)*	*3.76 m (12 ft. 4 in.)*
A Overall Length	10.66 m (35 ft. 0 in.)	10.71 m (35 ft. 2 in.)
B Overall Height	3.20 m (10 ft. 6 in.)	3.38 m (11 ft. 1 in.)
C Tail-Swing Radius	3.25 m (10 ft. 8 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	1.17 m (3 ft. 10 in.)	
G Upperstructure Width	2.99 m (9 ft. 10 in.)	
H Cab Height	3.11 m (10 ft. 2 in.)	
I Track Width with Triple Semi-Grouser Shoes	700 mm (28 in.) / 800 mm (32 in.)	
J Gauge Width	2.59 m (8 ft. 6 in.)	
K Ground Clearance	0.51 m (20 in.)	
L Overall Width with Triple Semi-Grouser Shoes		
700 mm (28 in.)	3.29 m (10 ft. 10 in.)	
800 mm (32 in.)	3.39 m (11 ft. 1 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 957-kg (2,110 lb.) bucket; 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.

	HORIZONTAL DISTANCE FROM CENTERLINE OF ROTATION											
	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.)	
LOAD POINT HEIGHT	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 3.11-m (10 ft. 2 in.) arm and 700-mm (28 in.) shoes												
6.0 m (20 ft.)							**6300 (13,760)**	**6300 (13,760)**	**6130 (13,190)**	5290 (11,340)		
4.5 m (15 ft.)					**9000 (19,330)**	**9000 (19,330)**	**7370 (15,970)**	**7370 (15,970)**	**6570 (14,330)**	5150 (11,070)		
3.0 m (10 ft.)					**11 980 (25,720)**	11 200 (24,150)	**8770 (18,960)**	7120 (15,350)	**7270 (15,800)**	4950 (10,650)	**4730**	3590
1.5 m (5 ft.)					**14 400 (31,030)**	10 460 (22,520)	**10 090 (21,810)**	6750 (14,530)	7980 (17,150)	4750 (10,220)	**5570**	3500
Ground Line					**15 450 (33,420)**	10 110 (21,740)	**10 950 (23,690)**	6500 (13,980)	7810 (16,800)	4610 (9,910)		
–1.5 m (–5 ft.)	**5990 (13,420)**	**5990 (13,420)**	**9420 (21,410)**	**9420 (21,410)**	**15 380 (33,320)**	10 030 (21,550)	11 090 (23,820)	6390 (13,750)	7740 (16,650)	4540 (9,770)		
–3.0 m (–10 ft.)	**11 070 (24,860)**	**11 070 (24,860)**	**15 650 (35,600)**	**15 650 (35,600)**	**14 370 (31,100)**	10 120 (21,740)	**10 620 (22,910)**	6420 (13,810)	7800	4590		
–4.5 m (–15 ft.)			**16 830 (36,190)**	**16 830 (36,190)**	**12 110 (25,970)**	10 370 (22,320)	**8730 (18,420)**	6610 (14,280)				
With 3.11-m (10 ft. 2 in.) arm and 800-mm (32 in.) shoes												
6.0 m (20 ft.)							**6300 (13,760)**	**6300 (13,760)**	**6130 (13,190)**	5360 (11,480)		
4.5 m (15 ft.)					**9000 (19,330)**	**9000 (19,330)**	**7370 (15,970)**	**7370 (15,970)**	**6570 (14,330)**	5220 (11,210)		
3.0 m (10 ft.)					**11 980 (25,720)**	11 330 (24,420)	**8770 (18,960)**	7210 (15,530)	**7270 (15,800)**	5020 (10,790)	**4730**	3640
1.5 m (5 ft.)					**14 400 (31,030)**	10 590 (22,800)	**10 090 (21,810)**	6830 (14,720)	**7990 (17,330)**	4820 (10,360)	**5570**	3550
Ground Line					**15 450 (33,420)**	10 240 (22,020)	**10 950 (23,690)**	6580 (14,170)	7910 (17,020)	4670 (10,050)		
–1.5 m (–5 ft.)	**5990 (13,420)**	**5990 (13,420)**	**9420 (21,410)**	**9420 (21,410)**	**15 380 (33,320)**	10 160 (21,830)	**11 170 (24,120)**	6470 (13,930)	7840 (16,860)	4600 (9,910)		
–3.0 m (–10 ft.)	**11 070 (24,860)**	**11 070 (24,860)**	**15 650 (35,600)**	**15 650 (35,600)**	**14 370 (31,100)**	10 240 (22,020)	**10 620 (22,910)**	6500 (14,000)	7900	4660		
–4.5 m (–15 ft.)			**16 830 (36,190)**	**16 830 (36,190)**	**12 110 (25,970)**	10 500 (22,590)	**8730 (18,420)**	6700 (14,470)				

Additional equipment

Key: ● Standard ▲ Optional or special

See your John Deere dealer for further information.

250G	300G	Engine
●	●	Auto-idle system
●	●	Automatic belt-tension device
●	●	Batteries (2 – 12 volt)
●	●	Coolant recovery tank
●	●	Dual-element dry-type air filter
●	●	Electronic engine control
●	●	Enclosed fan guard (conforms to SAE J1308)
●	●	Engine coolant to –37 deg. C (–34 deg. F)
●	●	Programmable auto shutdown
●	●	Fuel filter with water separator
●	●	Full-flow oil filter
●	●	Turbocharger with charge air cooler
●	●	Cool-on-demand hydraulic-driven fan
●	●	Glow-plug start aid
●	●	500-hour engine-oil-change interval
●	●	70% (35 deg.) off-level capability
●	●	Engine-oil-sampling valve
▲	▲	Hydraulic fan reverser
▲	▲	Chrome exhaust stack
▲	▲	Engine coolant heater
▲	▲	Severe-duty fuel filter
		Hydraulic System
●	●	Reduced-drift valve for boom down, arm in
●	●	Auxiliary hydraulic valve section
●	●	Spring-applied, hydraulically released automatic swing brake
●	●	Auxiliary hydraulic-flow adjustments through monitor
●	●	Auto power lift
●	●	5,000-hour hydraulic-oil-change interval
●	●	Hydraulic-oil-sampling valve
▲	▲	Auxiliary hydraulic lines
▲	▲	Auxiliary pilot and electric controls
▲	▲	Hydraulic filter restriction indicator kit
▲	▲	Load-lowering control / Anti-drift device
▲	▲	Single-pedal propel control
▲	▲	Control pattern change valve
		Undercarriage
●	●	Planetary drive with axial piston motors
●	●	Propel motor shields
●	●	Spring-applied, hydraulically released automatic propel brake
●	●	Track guides, front idler and center
●	●	2-speed propel with automatic shift
●	●	Upper carrier rollers (2)
●	●	Sealed and lubricated track chain
▲		Triple semi-grouser shoes, 600 mm (24 in.)

250G	300G	Undercarriage *(continued)*
▲	▲	Triple semi-grouser shoes, 700 mm (28 in.)
▲	▲	Triple semi-grouser shoes, 800 mm (32 in.)
		Upperstructure
●	●	Right-hand, left-hand, and counterweight mirrors
●	●	Vandal locks with ignition key: Cab door / Service doors / Toolbox
●	●	Debris screen in side panel
●	●	Remote-mounted engine oil and fuel filters
▲	▲	"D" channel guard
		Front Attachments
●	●	Centralized lubrication system
●	●	Dirt seals on all bucket pins
●	●	Less boom and arm
●	●	Oil-impregnated bushings
●	●	Reinforced resin thrust plates
●	●	Tungsten carbide thermal coating on arm-to-bucket joint
▲		Arm, 2.50 m (8 ft. 2 in.)
▲		Arm, 2.96 m (9 ft. 9 in.)
	▲	Arm, 3.11 m (10 ft. 2 in.)
▲		Arm, 3.61 m (11 ft. 10 in.)
	▲	Arm, 3.76 m (12 ft. 4 in.)
▲	▲	Attachment quick-couplers
▲	▲	Boom cylinder with plumbing to mainframe for less boom and arm
▲	▲	Buckets: Heavy duty / Heavy-duty high capacity / Side cutters and teeth
▲	▲	Material clamps
▲	▲	Super-long fronts
		Operator's Station
●	●	Adjustable independent-control positions (levers-to-seat, seat-to-pedals)
●	●	AM/FM radio
●	●	Auto climate control/air conditioner/heater/pressurizer
●	●	Built-in Operator's Manual storage compartment and manual
●	●	Cell-phone power outlet, 12 volt, 60 watt, 5 amp
●	●	Coat hook
●	●	Deluxe suspension cloth seat with 100-mm (4 in.) adjustable armrests
●	●	Floor mat
●	●	Front windshield wiper with intermittent speeds
●	●	Gauges (illuminated): Diesel Exhaust Fluid (DEF) / Engine coolant / Fuel
●	●	Horn, electric
●	●	Hourmeter, electric
●	●	Hydraulic shutoff lever, all controls
●	●	Hydraulic warm-up control

250G	300G	Operator's Station *(continued)*
●	●	Interior light
●	●	Large cup holder
●	●	Machine Information Center (MIC)
●	●	Mode selectors (illuminated): Power modes – 3 / Travel modes – 2 with automatic shift / Work mode – one
●	●	Multifunction, color LCD monitor with: Diagnostic capability / Multiple-language capabilities / Maintenance tracking / Clock / System monitoring with alarm features: Auto-idle indicator, engine air cleaner restriction indicator light, engine check, engine coolant temperature indicator light with audible alarm, engine oil pressure indicator light with audible alarm, low-alternator-charge indicator light, low-fuel indicator light, low DEF indication with audible alarm, fault code alert indicator, fuel-rate display, wiper-mode indicator, work-lights-on indicator, and work-mode indicator
●	●	Motion alarm with cancel switch (conforms to SAE J994)
●	●	Power-boost switch on right console lever
●	●	Auxiliary hydraulic control switches in right console lever
●	●	SAE 2-lever control pattern
●	●	Seat belt, 51 mm (2 in.), retractable
●	●	Tinted glass
●	●	Transparent tinted overhead hatch
●	●	Hot/cold beverage compartment
▲	▲	Air-suspension heated seat
▲	▲	Hydraulic oil filter restriction indicator light
▲	▲	Protection screens for cab front, rear, and side
▲	▲	Seat belt, 76 mm (3 in.), non-retractable
▲	▲	Window vandal-protection covers
		Electrical
●	●	100-amp alternator
●	●	Blade-type multi-fused circuits
●	●	Positive-terminal battery covers
●	●	Battery-disconnect switch
●	●	JDLink™ Ultimate wireless communication system (available in specific countries; see your dealer for details)
▲	▲	Rearview camera
▲	▲	Cab extension wiring harness
		Lights
●	●	Work lights: Halogen / One mounted on boom / One mounted on frame
▲	▲	2 lights mounted on cab / One mounted on right side of boom / One mounted under engine hood

Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan, at test conditions specified per ISO 9249. No derating is required up to 3050-m (10,000 ft.) altitude. 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 units with 800-mm (32 in.) triple semi-grouser shoes, full fuel tanks, and 79-kg (175 lb.) operators; a 250G LC unit with 1219-mm (48 in.) bucket and 5112-kg (11,270 lb.) counterweight; and a 300G LC unit with 1067-mm (42 in.) bucket and 5600-kg (12,346 lb.) counterweight.

JohnDeere.com

DKA250300G Litho in U.S.A. (15-05)

Lift Capacities *(continued)* 300G LC

Boldface type indicates hydraulically limited capacity; lightface type indicates stability-limited capacities, in kg (lb.). Ratings at bucket lift hook; machine equipped with 957-kg (2,110 lb.) bucket; 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.

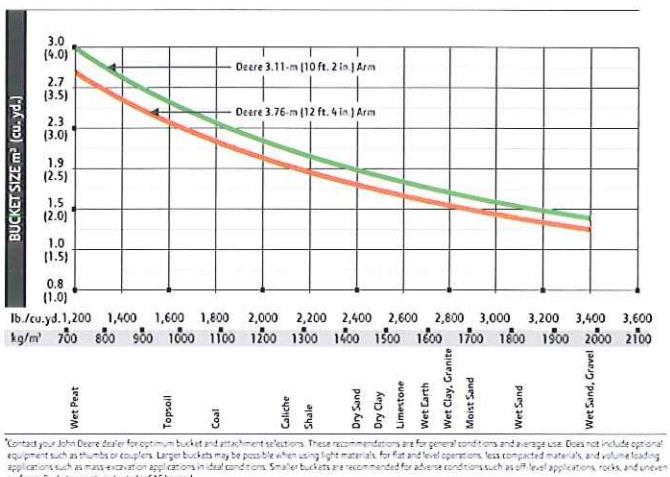
	HORIZONTAL DISTANCE FROM CENTERLINE OF ROTATION											
	1.5 m (5 ft.)		3.0 m (10 ft.)		4.5 m (15 ft.)		6.0 m (20 ft.)		7.5 m (25 ft.)		9.0 m (30 ft.)	
LOAD POINT HEIGHT	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
With 3.76-m (12 ft. 4 in.) arm and 700-mm (28 in.) shoes												
7.5 m (25 ft.)									4330	4330		
6.0 m (20 ft.)									**5410 (11,880)**	5400 (11,570)		
4.5 m (15 ft.)							**6530 (14,150)**	**6530 (14,150)**	**5950 (12,970)**	5230 (11,240)	**4420 (8,520)**	3720 (7,950)
3.0 m (10 ft.)			**(31,310)**	**(31,310)**	**10 590 (22,740)**	**10 590 (22,740)**	**8000 (17,300)**	7260 (15,630)	**6730 (14,630)**	5010 (10,770)	**5700 (11,530)**	3620 (7,740)
1.5 m (5 ft.)					13 380 (28,820)	10 670 (22,980)	**9470 (20,480)**	6830 (14,710)	**7560 (16,390)**	4780 (10,280)	5920 (12,710)	3500 (7,500)
Ground Line			**5670 (13,000)**	**5670 (13,000)**	**15 000 (32,430)**	10 160 (21,850)	**10 570 (22,870)**	6520 (14,020)	7810 (16,790)	4600 (9,880)	5820 (12,500)	3400 (7,300)
–1.5 m (–5 ft.)	**5650 (12,640)**	**5650 (12,640)**	**9100 (20,640)**	**9100 (20,640)**	**15 440 (33,440)**	9970 (21,420)	11 050 (23,730)	6350 (13,650)	7690 (16,530)	4490 (9,650)	**5050**	3360
–3.0 m (–10 ft.)	**9450 (21,200)**	**9450 (21,200)**	**13 660 (31,010)**	**13 660 (31,010)**	**14 900 (32,250)**	9970 (21,440)	**10 890 (23,530)**	6320 (13,590)	7680 (16,520)	4480 (9,640)		
–4.5 m (–15 ft.)	**14 050 (31,670)**	**14 050 (31,670)**	**19 080 (41,110)**	**19 080 (41,110)**	**13 270 (28,560)**	10 150 (21,840)	**9720 (20,810)**	6430 (13,860)				
–6.0 m (–20 ft.)			**13 820**	**13 820**	**9700 (20,230)**	**9700 (20,230)**						
With 3.76-m (12 ft. 4 in.) arm and 800-mm (32 in.) shoes												
7.5 m (25 ft.)									**4330**	**4330**		
6.0 m (20 ft.)									**5410 (11,880)**	**5410 (11,710)**		
4.5 m (15 ft.)							**6530 (14,150)**	**6530 (14,150)**	**5950 (12,970)**	5300 (11,380)	**4420 (8,520)**	3770 (8,070)
3.0 m (10 ft.)			**(31,310)**	**(31,310)**	**10 590 (22,740)**	**10 590 (22,740)**	**8000 (17,300)**	7340 (15,810)	**6730 (14,630)**	5080 (10,910)	**5700 (11,530)**	3670 (7,860)
1.5 m (5 ft.)					**13 380 (28,820)**	10 800 (23,250)	**9470 (20,480)**	6920 (14,890)	**7560 (16,390)**	4850 (10,420)	6000 (12,890)	3550 (7,610)
Ground Line			**5670 (13,000)**	**5670 (13,000)**	**15 000 (32,430)**	10 290 (22,130)	**10 570 (22,870)**	6600 (14,210)	7910 (17,010)	4660 (10,020)	5900 (12,670)	3450 (7,410)
–1.5 m (–5 ft.)	**5650 (12,640)**	**5650 (12,640)**	**9100 (20,640)**	**9100 (20,640)**	**15 440 (33,440)**	10 090 (21,690)	**11 080 (23,980)**	6430 (13,840)	7790 (16,750)	4550 (9,790)	**5050**	3410
–3.0 m (–10 ft.)	**9450 (21,200)**	**9450 (21,200)**	**13 660 (31,010)**	**13 660 (31,010)**	**14 900 (32,250)**	10 100 (21,710)	**10 890 (23,530)**	6400 (13,780)	7780 (16,740)	4540 (9,780)		
–4.5 m (–15 ft.)	**14 050 (31,670)**	**14 050 (31,670)**	**19 080 (41,110)**	**19 080 (41,110)**	**13 270 (28,560)**	10 280 (22,110)	**9720 (20,810)**	6510 (14,040)				
–6.0 m (–20 ft.)			**13 820**	**13 820**	**9700 (20,230)**	**9700 (20,230)**						

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 TK-Series Bucket 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 3.11 m (10 ft. 2 in.)		Arm Dig Force 3.76 m (12 ft. 4 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	914	36	1.23	0.94	1010	2,226	189.7	42,653	144.1	32,397	125.1	28,126	1661	65.39	4
	1067	42	1.52	1.16	1147	2,530	189.7	42,653	144.1	32,397	125.1	28,126	1661	65.39	5
	1219	48	1.81	1.38	1213	2,675	189.7	42,653	144.1	32,397	125.1	28,126	1661	65.39	5
	1372	54	2.09	1.60	1328	2,928	189.7	42,653	144.1	32,397	125.1	28,126	1661	65.39	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, loose compacted materials, and volume loading applications such as mass-excavation applications in ideal conditions. Smaller buckets are recommended for adverse conditions such as cliff-level applications, rocks, and uneven surfaces. Bucket capacity indicated is SAE heaped.

35G/50G/60G COMPACT EXCAVATORS

3520–6145-kg (7,760–13,547 lb.) Operating Weight

JOHN DEERE

Make a bigger impact with our compacts.

Looking to get more out of your "mini ex"? Make your next compact one of our G-Series. Inspired by input from equipment owners and operators like you, these nimble machines are loaded with customer-driven enhancements. Such as a more spacious cab with a wider entryway. Larger expanse of glass for unsurpassed visibility. Fuel-saving auto-shutdown and power/economy work modes. Ultra-reliable Final Tier 4 (FT4)/Stage IV engines. Plus three large service doors allow wide-open access to maintenance items such as side-by-side coolers for simplified core clean-out. Get a G-Series and get the same power, productivity, reliability, and comfort you've come to expect from our compacts — in an even more operator-friendly package.

Ultra-reliable, fuel-efficient diesels meet EPA FT4/EU Stage IV emission standards. Power/economy modes optimize power for digging applications and significantly improve fuel efficiency.

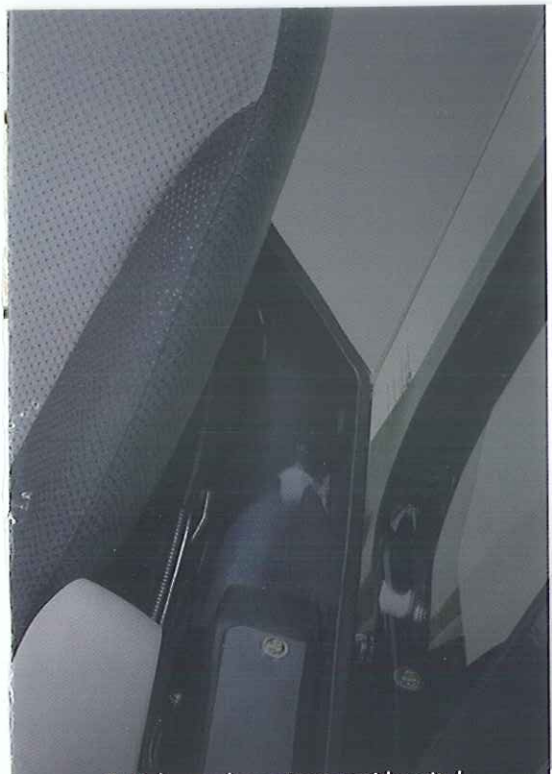
With large entryways and virtually unrestricted sightlines, the G-Series' spacious operator stations deliver all the comfort, convenience, and visibility an operator needs. And then some.

Zero- and reduced-tail-swing designs make these compacts extra maneuverable and plenty productive in places with tight spaces.

Key specifications	35G	50G	60G
Net power (FT4/Stage IV)	17.4 kW (23.3 hp)	26.8 kW (35.9 hp)	39.6 kW (53.0 hp)
Maximum Digging Reach	5.21 m (17 ft. 1 in.)	5.96 m (19 ft. 7 in.)	6.23 m (20 ft. 5 in.)
Maximum Digging Depth	3.06 m (10 ft. 0 in.)	3.53 m (11 ft. 7 in.)	3.77 m (12 ft. 4 in.)
Operating Weight	3520 kg (7,760 lb.)	4790 kg (10,560 lb.)	6145 kg (13,547 lb.)

More comfortable interiors provide for a more productive day.

Step aboard one of our excavators and you'll discover that compacts don't have to be uncomfortable. The G-Series' spacious operator stations won't cramp an operator's style. Seat, pedals, and controls are positioned to accommodate bigger operators. And virtually unobstructed visibility provides a commanding view of the work at hand and jobsite around you. For year-round comfort and increased productivity, add a heated and air-conditioned cab. Just like the canopy-equipped models, visibility and roominess are second to none.



Swing boom and foldable travel pedals are positioned where they're easy to operate, yet allow plenty of foot room.

Auto-idle automatically reduces engine speed when hydraulics aren't in use. Auto shutdown further preserves every precious drop of fuel.

Convenient 12-volt port powers cell phones and other electronic devices. There's also a large cup holder and seatback compartment for documents.

Redesigned cab's 50-mm (2 in.) wider, 150-mm (6 in.) taller front glass and single-hinge door provide unsurpassed all-around visibility.

Spacious operator stations have wide entryways, making entrance and exit easier than ever. Flat, skid-resistant floor mat removes easily for clean-out.

No operator activation required for high-speed travel. Track speeds automatically slow to low whenever the travel motors encounter a heavier load. Includes a console-mounted, low-speed lock switch.

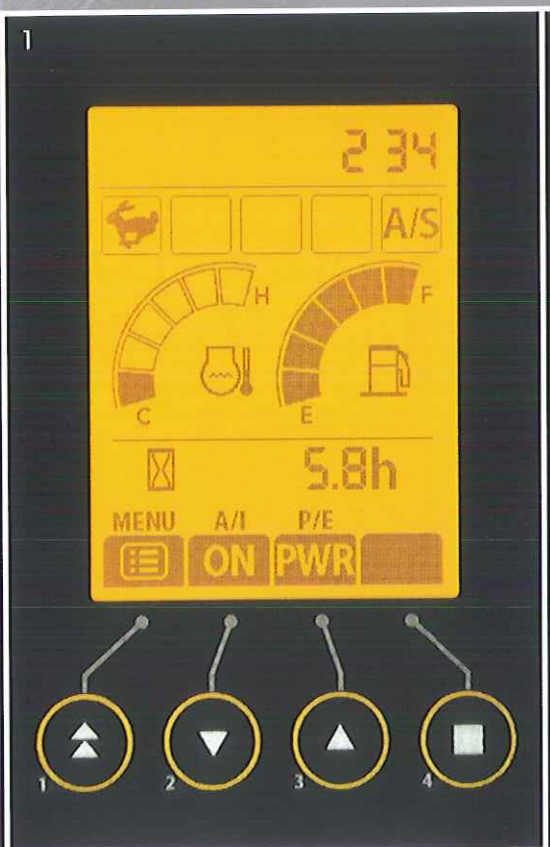
Noise-reducing muffler (35G) and after-treatment device (50G/60G), plus isochronous high-idle speed, help keep things noticeably quiet. Rubber cab mounts further isolate the operator from noise and vibration to help reduce fatigue.

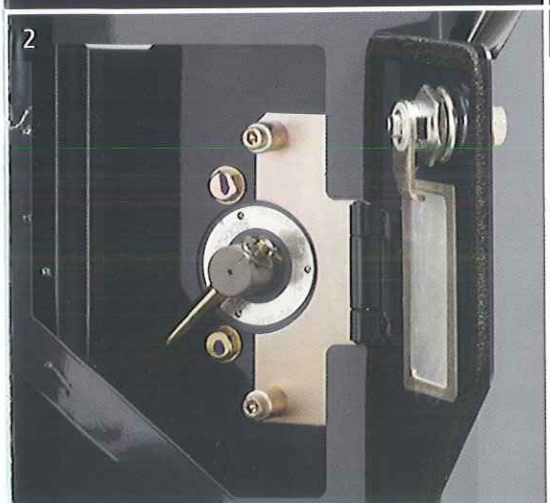
1. Enhanced monitor provides vital operating info at a glance and fingertip control of several functions, including auto-shutdown, power/economy modes, and auto exhaust-filter cleaning. Plus two trip meters let you track engine oil and hydraulic oil changes, or jobsite hours.

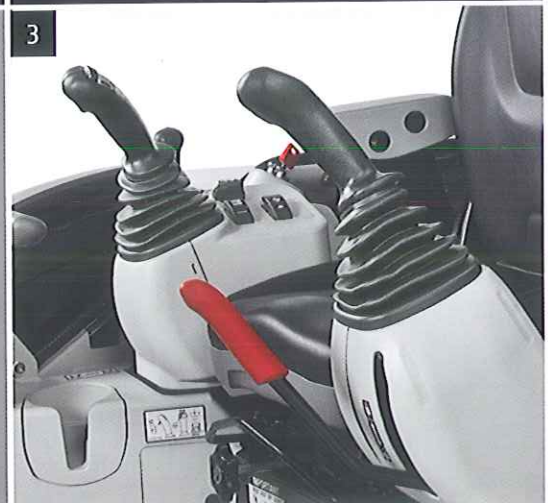
2. Go from backhoe- to excavator-style controls with just a twist of your wrist. Control-pattern selector valve is conveniently located in a compartment beneath the seat.

3. Ergonomic short-throw pilot-control levers provide smooth, predictable low-effort fingertip operation.

4. Automatic, high-velocity bi-level climate-control system with auto-motive-style adjustable louvers helps keep the glass clear and the cab comfortable.





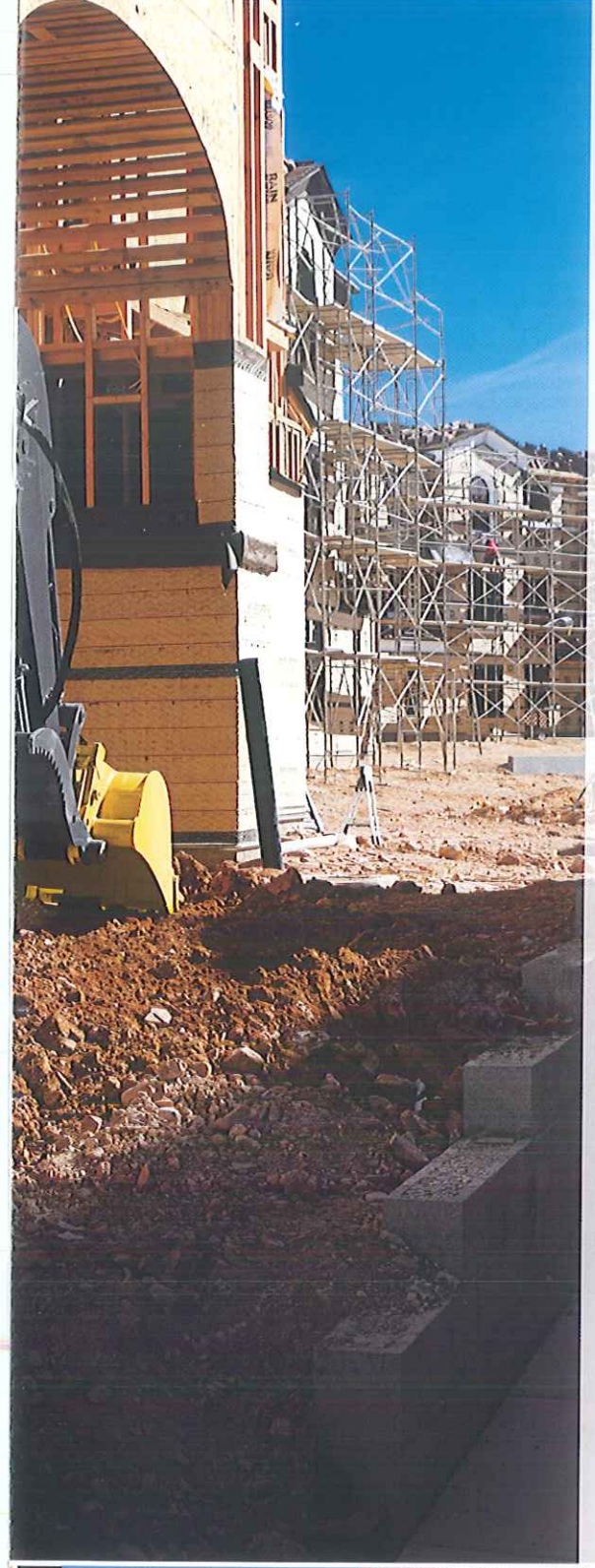


Power/economy work modes allow you to match engine speed to the application. Select **Power** mode and get the higher engine speeds needed for most general digging work. For lighter digging demands, **Economy** mode reduces engine speed and noise, while improving fuel efficiency.

Large diesels deliver impressive torque for more pull-through power when the going gets tough.

35G employs the same hydraulic system as the 50G, enabling it to run at a lower rpm for reduced noise and fuel consumption without sacrificing power.

G-Series Compacts transport easily between jobsites, making them perfect for "dig-and-go" jobs. Enlarged tie-down openings allow you to secure these machines using the same-size chains used on your larger equipment.



Their possibilities are almost endless.

Sure, their compact sizes and reduced-tail-swing design enable these small-but-mighty machines to specialize in close-quarters work. But that's not the only reason to run one. Their highly fuel-efficient, direct-injected diesels meet Final Tier 4/Stage IV emission standards and are noticeably quiet so you can put them to work almost anywhere, any time. Standard-equipped with backfill blade, mechanical quick-coupler, and auxiliary hydraulics, plus any of the many optional Worksite Pro™ attachments, they can make a sizeable impact on your productivity. And profitability.

1. Although they won't replace a grading tractor, their standard blades enable these excavators to fill-in quite capably.

2. Choose the tracks that are best for the way you work. Rubber tracks traverse virtually any terrain, including paved surfaces. Steel tracks and steel tracks with rubber pads are also available. Optional rubber grousers combine work-anywhere flexibility with steel-track serviceability.

3. Why allow obstacles to dictate how you work? Get a G-Series Compact and put its independent-swing boom and 360-deg. rotation to good use.

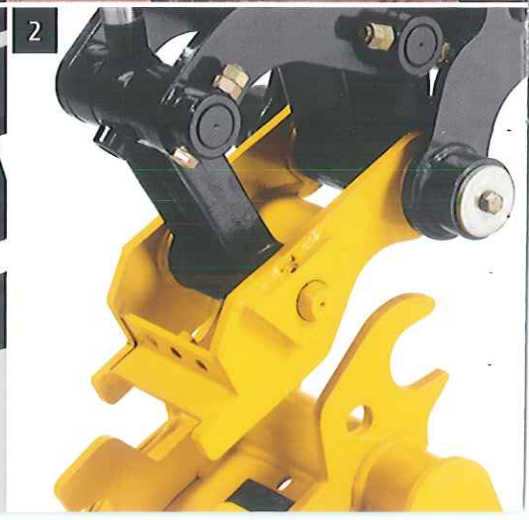
4. Virtually unrestricted visibility, precise feel, and smooth control make our compacts ideal for excavating around existing utilities.

5. Truck sideboards are no problem for these compacts. Lift height and reach are plentiful, making truck loading easy.

Arm yourself for even more productivity.

Want to do even more with these highly versatile compacts? Add any of the many available buckets and Worksite Pro attachments to your equipment arsenal and watch utilization take off. G-Series Compacts arrive attachment-ready with boom-mounted auxiliary hydraulic lines and a quick-coupler that let you go from bucket to breaker to whatever, quickly and easily. See your John Deere dealer today for details and financing options.

1. Standard quick-coupler-equipped, boom-mounted auxiliary hydraulic lines make attachment hookup a snap.
2. Wedge-style coupler enables quick changes and accepts a wide variety of buckets and attachments, such as breakers and augers.
3. Worksite Pro planetary augers can be equipped with rock, heavy-duty, standard, and tree/shrub bits.
4. Optional 35G and 50G backfill blade angles 25 deg., right or left, at the touch of a button.
5. Bust through blacktop, concrete, or other solid surfaces with a Worksite Pro breaker. Front cab screens are available to help prevent glass damage.



Add a top clamp for thumb-like dexterity that comes in handy when handling cumbersome objects or cleaning up jobsites.

Return-flow selector valve accommodates both one- and two-way hydraulic-driven attachments. Make changes with just a twist of the wrist.

Worksite Pro breakers and augers also work on other John Deere compact machines, so you can make the most of your investment.

Ditch-cleaning buckets from 762-to-1067-mm (30 to 42 in.) wide handle loose or mucky materials.

Need more digging depth or reach? Choose the long-arm/heavy-counterweight option that provides an increase in both.

Nothing runs like a Deere, because nothing is built like one.

Don't let their compact statures fool you. Like their larger G-Series siblings, the 35G, 50G, and 60G are exceptionally durable. And for good reason — they share many of the same uptime-boosting features such as powdered-metal oil-impregnated boom, arm, and bucket bushings. Rigid reinforced D-channel side frames. And heavy-duty X-frames. When you know how they're built, you'll run a Deere.

O-ring face-seal hydraulic fittings virtually eliminate aggravating and costly oil leaks.

Oil-impregnated bushings enhance durability and extend grease intervals to 500 hours for the arm-and-boom joint, and 100 hours for the bucket.

Rigid, reinforced D-channel side frames resist impact, providing maximum cab and component protection.

Self-priming diesel helps you get back up and running quickly should you ever run out of fuel.

Wet-disc swing brake provides long-term maintenance-free performance.

To help prevent accidental machine movement, a spring-applied, hydraulically released park brake automatically engages when a control lever is released.

1. Single-pin swing-post increases boom stiffness, enhancing the structural integrity of digging components. Wear-resistant hoses are routed for protection and Cordura®-wrapped where exposed.

2. Heavy-duty shields deflect material and impacts, protecting the boom/blade cylinders and drive motors.

3. Rubber tracks' unique steel cores resist cracking. Large-diameter drive sprockets and track idlers further increase undercarriage durability.

4. Heavy-duty X-frame provides a solid, stable platform that resists material and dirt buildup.

Won't bust your tail or your budget.

If there's a way to increase uptime, reduce your daily operating costs, and simplify maintenance, we've implemented it in the G-Series. Extended hydraulic and engine oil-change intervals reduce downtime and expense. Daily checks are done through a steel rear door that slides up and out of the way. If necessary, the operator station tilts forward, providing quick, wide-open component access. And of course, industry-leading parts and service are just as easily accessible at more than 1,300 John Deere locations coast to coast. Easy to work with, easy to maintain — that's our G-Series.

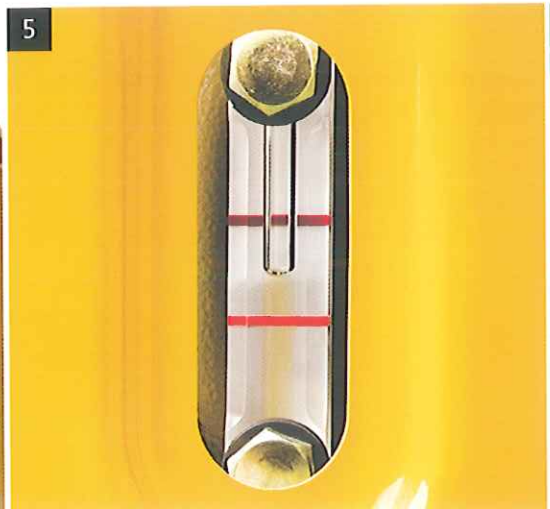
1. Vertical spin-on filters allow quick and clean changes. Extended engine and hydraulic oil-change intervals let you work longer.
2. Hinged door provides wide-open access to the side-by-side oil cooler and radiator for easier core clean-out.
3. Operator station tilts forward 50 deg., simplifying access to the swing motor, hydraulic control valve, engine starter motor, and alternator.
4. Routine checks such as engine oil level are quickly accomplished from ground level. Convenient lube/maintenance chart helps ensure that nothing gets overlooked.
5. Hydraulic fluid sight gauge and see-through coolant reservoir let you quickly check levels at a glance.
6. A simple grease gun and a wrench are all it takes to quickly maintain proper track tension.

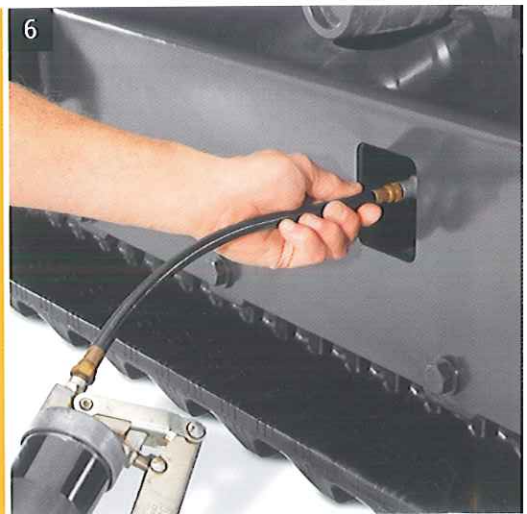
The EPA FT4/EU Stage IV technology in our excavators is simple, fuel efficient, fully integrated, and fully supported. In the 50G and 60G, it employs field-proven cooled exhaust gas recirculation (EGR) for reducing NO_x, and a diesel particulate filter (DPF) and diesel oxidation catalyst (DOC) to reduce particulate matter. The 35G doesn't require an after-treatment system to meet EPA requirements.

Seamless DPF cleaning happens automatically without impacting machine productivity. Minimum service interval is 6,000 hours and can be done by your John Deere dealer.

Fuel-sipping diesels, auto-idle, and economy work mode help conserve precious fuel.

Large fuel tanks and 500- and 2,000-hour engine and hydraulic oil-service and 500-hour greasing intervals enable these excavators to work longer between stops for scheduled service.





35G

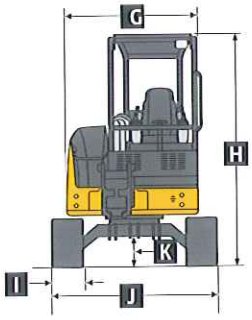
Engine	35G			
Manufacturer and Model	Yanmar 3TNV88F			
Non-Road Emission Standard	EPA Final Tier 4/EU Stage IV			
Displacement	1.642 L (100.2 cu. in.)			
Net Power (ISO 9249)	17.4 kW (23.3 hp) at 2,400 rpm			
Powertrain				
Each track independently driven by hydrostatic axial-piston motor connected to 2-stage planetary gear-reduction box				
Maximum Travel Speed				
Low	2.8 km/h (1.7 mph)			
High	4.3 km/h (2.7 mph)			
Hydraulics				
Open center with 2 variable-displacement pumps and 1 fixed-gear pump				
Pump Flow				
Piston	2 x 38.4 L/m (2 x 10.1 gpm)			
Gear	22.8 L/m (6.0 gpm)			
Auxiliary Flow	61.2 L/m (16.2 gpm)			
Controls	2 hydraulic pilot-operated controls for boom, arm, bucket, swing, boom swing, travel, and auxiliary functions			
Electrical				
Alternator Rating	55 amp			
Work Lights	2 halogen: 1 mounted on operator's station and 1 mounted on boom			
Undercarriage				
Track, Rubber	300 mm (12 in.)			
Ground Pressure	*1315-mm (4 ft. 4 in.) Standard Arm, Canopy, and Standard Counterweight*	*1315-mm (4 ft. 4 in.) Standard Arm, Cab, and Standard Counterweight*	*1715-mm (5 ft. 8 in.) Long Arm, Canopy, and Extra Counterweight*	*1715-mm (5 ft. 8 in.) Long Arm, Cab, and Extra Counterweight*
With Rubber Track	32.0 kPa (4.6 psi)	33.0 kPa (4.8 psi)	33.7 kPa (4.9 psi)	35.2 kPa (5.1 psi)
Upperstructure				
Swing Speed	9.0 rpm			
Independent Swing Boom	*Canopy*	*Cab*		
Left	72 deg.	62 deg.		
Right	62 deg.	62 deg.		
Swing Brake	Spring applied, hydraulically released, automatic, disc type			
Serviceability				
Refill Capacities				
Fuel Tank	42 L (11.1 gal.)			
Cooling System	5.0 L (5.3 qt.)			
Engine Oil with Filter	7.2 L (7.6 qt.)			
Hydraulic Tank	32 L (8.5 gal.)			
Operating Weights				
	1315-mm (4 ft. 4 in.) Standard Arm, Canopy, and Standard Counterweight	*1315-mm (4 ft. 4 in.) Standard Arm, Cab, and Standard Counterweight*	*1715-mm (5 ft. 8 in.) Long Arm, Canopy, and Extra Counterweight*	*1715-mm (5 ft. 8 in.) Long Arm, Cab, and Extra Counterweight*
With Full Fuel Tank and 79-kg (175 lb.) Operator	3520 kg (7,760 lb.)	3690 kg (8,135 lb.)	3783 kg (8,340 lb.)	3953 kg (8,715 lb.)
Optional Angle Blade	296 kg (653 lb.)			
Counterweight				
Standard	540 kg (1,190 lb.)			
Additional	240 kg (529 lb.)			

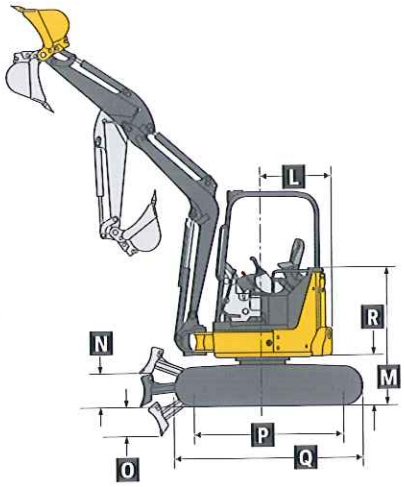
Operating Dimensions

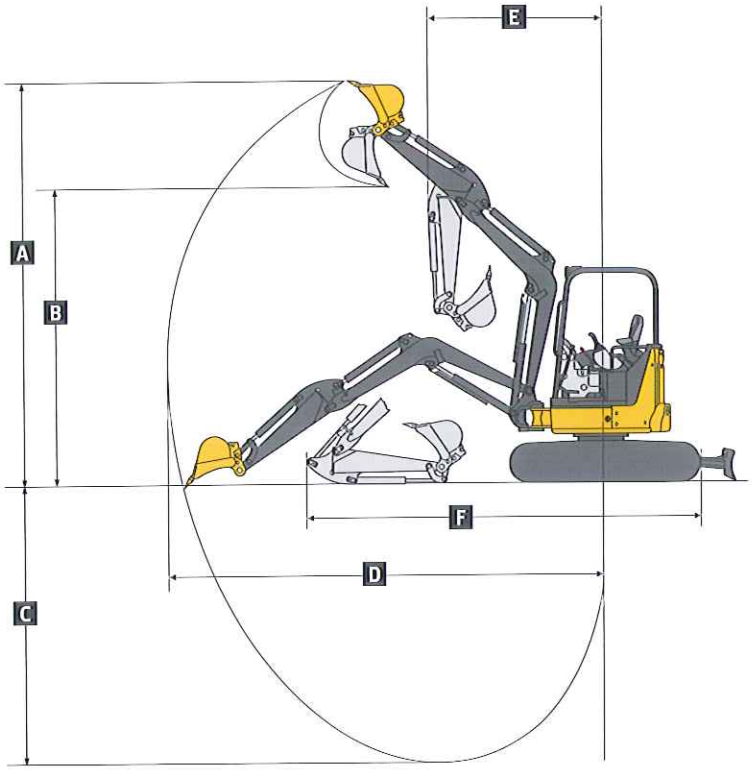
	35G			
	1315-mm (4 ft. 4 in.) Standard Arm and Canopy	*1715-mm (5 ft. 8 in.) Long Arm and Canopy*	*1315-mm (4 ft. 4 in.) Standard Arm and Cab*	*1715-mm (5 ft. 8 in.) Long Arm and Cab*
A Maximum Cutting Height	4.87 m (16 ft. 0 in.)	4.95 m (16 ft. 3 in.)	4.70 m (15 ft. 5 in.)	4.74 m (15 ft. 7 in.)
B Maximum Dumping Height	3.46 m (11 ft. 4 in.)	3.57 m (11 ft. 9 in.)	3.31 m (10 ft. 10 in.)	3.39 m (11 ft. 1 in.)
C Maximum Digging Depth	3.06 m (10 ft. 0 in.)	3.46 m (11 ft. 4 in.)	3.06 m (10 ft. 0 in.)	3.46 m (11 ft. 4 in.)
D Maximum Digging Reach	5.21 m (17 ft. 1 in.)	5.52 m (18 ft. 1 in.)	5.21 m (17 ft. 1 in.)	5.52 m (18 ft. 1 in.)
E Minimum Front Swing Radius	2.08 m (6 ft. 10 in.)	2.19 m (7 ft. 2 in.)	2.24 m (7 ft. 4 in.)	2.30 m (7 ft. 7 in.)
F Transport Length	4.64 m (15 ft. 3 in.)	4.75 m (15 ft. 7 in.)	4.64 m (15 ft. 3 in.)	4.75 m (15 ft. 7 in.)
Digging Force (ISO)				
Arm	19.0 kN (4,277 lb.)	16.9 kN (3,792 lb.)	19.0 kN (4,277 lb.)	16.9 kN (3,792 lb.)
Bucket	27.1 kN (6,085 lb.)	27.1 kN (6,085 lb.)	27.1 kN (6,085 lb.)	27.1 kN (6,085 lb.)

Machine Dimensions

G Upperstructure Width	1.55 m (5 ft. 1 in.)
H Overall Height	
Canopy	2.48 m (8 ft. 2 in.)
Cab	2.48 m (8 ft. 2 in.)
I Track Width	300 mm (12 in.)
J Undercarriage Width	1.74 m (5 ft. 9 in.)
K Ground Clearance	280 mm (11 in.)
L Tail Swing Radius	
With Standard Arm	870 mm (34 in.)
With Long Arm and Extra Counterweight	980 mm (39 in.)
M Engine Cover Height	1.53 m (5 ft. 0 in.)
N Maximum Blade Lift Above Ground	360 mm (14.2 in.)
O Maximum Blade Drop Below Ground	400 mm (15.7 in.)
Blade	
Width	1.74 m (5 ft. 9 in.)
Height	373 mm (14.7 in.)
P Sprocket Center to Idler Center	1.66 m (5 ft. 5 in.)
Q Undercarriage Length	2.11 m (6 ft. 11 in.)
R Counterweight Clearance	550 mm (22 in.)







Lift Capacities

Ground Level at 3.05-m (10 ft.) Radius

	Canopy and Standard Counterweight		*Canopy and Extra Counterweight*		*Cab and Standard Counterweight*		*Cab and Extra Counterweight*	
	*Over Front**	*Over Side*	*Over Front**	*Over Side*	*Over Front**	*Over Side*	*Over Front**	*Over Side*
Arm								
1315-mm (4 ft. 4 in.) Standard	1568 kg (3,453 lb.)	641 kg (1,412 lb.)	1568 kg (3,453 lb.)	765 kg (1,686 lb.)	1568 kg (3,453 lb.)	684 kg (1,506 lb.)	1568 kg (3,453 lb.)	808 kg (1,780 lb.)
1715-mm (5 ft. 8 in.) Long	1501 kg (3,307 lb.)	630 kg (1,388 lb.)	1501 kg (3,307 lb.)	755 kg (1,662 lb.)	1501 kg (3,307 lb.)	672 kg (1,481 lb.)	1501 kg (3,307 lb.)	797 kg (1,756 lb.)

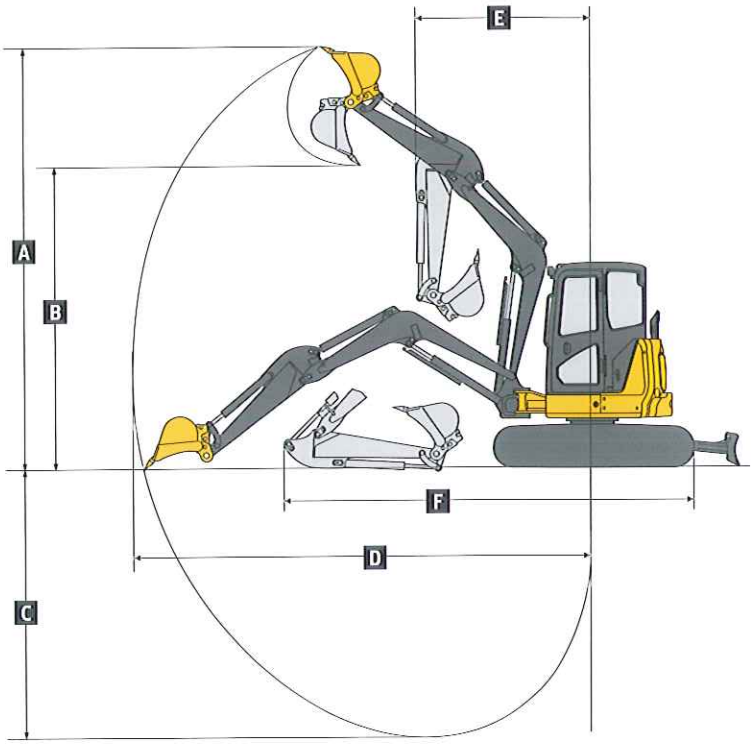
*Blade down (limited by hydraulics).

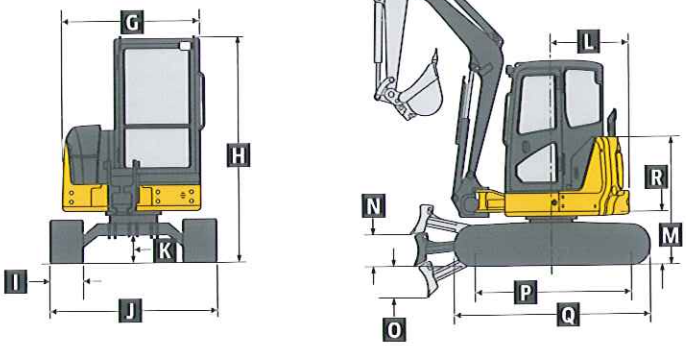
50G

Engine	50G			
Manufacturer and Model	Yanmar 4TNV88C			
Non-Road Emission Standard	EPA Final Tier 4/EU Stage IV			
Displacement	2.19 L (134 cu. in.)			
Net Power (ISO 9249)	26.8 kW (35.9 hp) at 2,400 rpm			
Powertrain				
Each track independently driven by hydrostatic axial-piston motor connected to 2-stage planetary gear-reduction box				
Maximum Travel Speed				
Low	2.5 km/h (1.6 mph)			
High	4.2 km/h (2.6 mph)			
Hydraulics				
Closed-center load sensing with 1 variable-displacement pump				
Pump Flow	120.0 L/m (31.7 gpm)			
Auxiliary Flow	87.4 L/m (23.1 gpm)			
Controls	Hydraulic pilot-operated controls for boom, arm, bucket, swing, boom swing, blade, travel, and auxiliary functions			
Electrical				
Alternator Rating	55 amp			
Work Lights	2 halogen: 1 mounted on operator's station and 1 mounted on boom			
Undercarriage				
Track, Rubber	400 mm (16 in.)			
Ground Pressure	*1380-mm (4 ft. 6 in.) Standard Arm, Canopy, and Standard Counterweight*	*1380-mm (4 ft. 6 in.) Standard Arm, Cab, and Standard Counterweight*	*1690-mm (5 ft. 7 in.) Long Arm, Canopy, and Extra Counterweight*	*1690-mm (5 ft. 7 in.) Long Arm, Cab, and Extra Counterweight*
With Rubber Track	26.9 kPa (3.90 psi)	28.3 kPa (4.10 psi)	28.8 kPa (4.17 psi)	29.5 kPa (4.28 psi)
Upperstructure				
Swing Speed	9.0 rpm			
Independent Swing Boom				
Left	80 deg.			
Right	60 deg.			
Swing Brake	Spring applied, hydraulically released, automatic, disc type			
Serviceability				
Refill Capacities				
Fuel Tank	70 L (18.5 gal.)			
Cooling System	5.0 L (5.3 qt.)			
Engine Oil with Filter	8.6 L (9.1 qt.)			
Hydraulic Tank	56 L (14.8 gal.)			
Operating Weights				
	1380-mm (4 ft. 6 in.) Standard Arm, Canopy, and Standard Counterweight	*1380-mm (4 ft. 6 in.) Standard Arm, Cab, and Standard Counterweight*	*1690-mm (5 ft. 7 in.) Long Arm, Canopy, and Extra Counterweight*	*1690-mm (5 ft. 7 in.) Long Arm, Cab, and Extra Counterweight*
With 400-mm (16 in.) Rubber Track, Straight Blade, Full Fuel Tank, and 79-kg (175 lb.) Operator	4790 kg (10,560 lb.)	4920 kg (10,847 lb.)	5018 kg (11,063 lb.)	5148 kg (11,349 lb.)
Optional Angle Blade	409 kg (902 lb.)			
Counterweight				
Standard	700 kg (1,543 lb.)			
Additional	200 kg (441 lb.)			

Operating Dimensions	50G			
	1380-mm (4 ft. 6 in.) Standard Arm and Canopy	*1690-mm (5 ft. 7 in.) Long Arm and Canopy*	*1380-mm (4 ft. 6 in.) Standard Arm and Cab*	*1690-mm (5 ft. 7 in.) Long Arm and Cab*
A Maximum Cutting Height	5.75 m (18 ft. 10 in.)	6.00 m (19 ft. 8 in.)	5.75 m (18 ft. 10 in.)	6.00 m (19 ft. 8 in.)
B Maximum Dumping Height	4.07 m (13 ft. 4 in.)	4.31 m (14 ft. 2 in.)	4.07 m (13 ft. 4 in.)	4.31 m (14 ft. 2 in.)
C Maximum Digging Depth	3.53 m (11 ft. 7 in.)	3.83 m (12 ft. 7 in.)	3.53 m (11 ft. 7 in.)	3.83 m (12 ft. 7 in.)
D Maximum Digging Reach	5.96 m (19 ft. 7 in.)	6.26 m (20 ft. 6 in.)	5.96 m (19 ft. 7 in.)	6.26 m (20 ft. 6 in.)
E Minimum Front Swing Radius	2.21 m (7 ft. 3 in.)	2.30 m (7 ft. 7 in.)	2.21 m (7 ft. 3 in.)	2.30 m (7 ft. 7 in.)
F Transport Length	5.47 m (17 ft. 11 in.)	5.52 m (18 ft. 1 in.)	5.47 m (17 ft. 11 in.)	5.52 m (18 ft. 1 in.)
Digging Force (ISO)				
Arm	24.0 kN (5,401 lb.)	21.0 kN (4,718 lb.)	24.0 kN (5,401 lb.)	21.0 kN (4,718 lb.)
Bucket	36.8 kN (8,267 lb.)	36.8 kN (8,267 lb.)	36.8 kN (8,267 lb.)	36.8 kN (8,267 lb.)

Machine Dimensions	
G Upperstructure Width	1.85 m (6 ft. 1 in.)
H Overall Height	
Canopy	2.53 m (8 ft. 4 in.)
Cab	2.53 m (8 ft. 4 in.)
I Track Width	400 mm (16 in.)
J Undercarriage Width	2.00 m (6 ft. 7 in.)
K Ground Clearance	340 mm (13 in.)
L Tail Swing Radius	
With Standard Arm	1.00 m (39 in.)
With Long Arm and Extra Counterweight	1.10 m (43 in.)
M Engine Cover Height	1.59 m (5 ft. 3 in.)
N Maximum Blade Lift Above Ground	460 mm (18 in.)
O Maximum Blade Drop Below Ground	360 mm (14 in.)
Blade	
Width	2.00 m (6 ft. 7 in.)
Height	375 mm (15 in.)
P Sprocket Center to Idler Center	2.00 m (6 ft. 7 in.)
Q Track Length	2.50 m (8 ft. 2 in.)
R Counterweight Clearance	610 mm (24 in.)





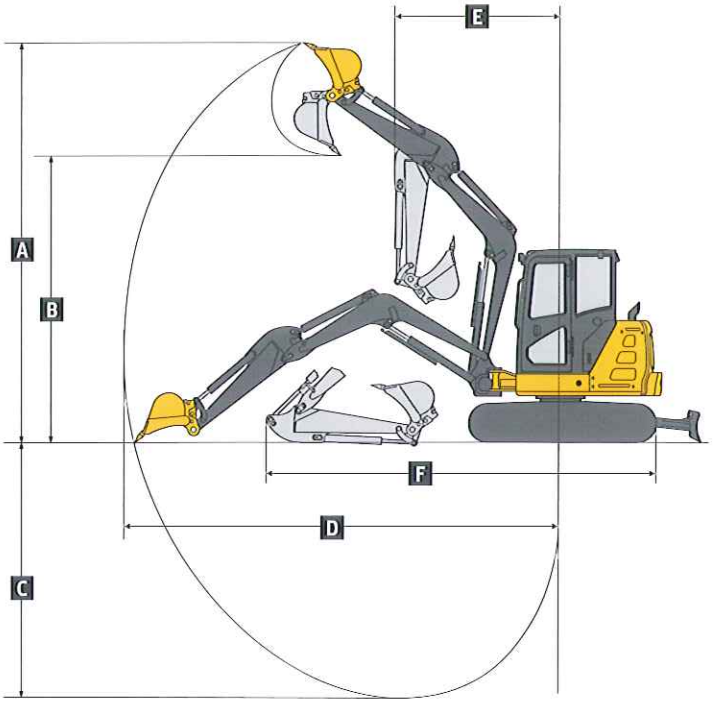
Lift Capacities **Ground Level at 3.05-m (10 ft.) Radius**	*Canopy and Standard Counterweight*		*Canopy and Extra Counterweight*		*Cab and Standard Counterweight*		*Cab and Extra Counterweight*	
Arm	*Over Front**	*Over Side*	*Over Front**	*Over Side*	*Over Front**	*Over Side*	*Over Front**	*Over Side*
1380-mm (4 ft. 6 in.) Standard	2511 kg (5,531 lb.)	1110 kg (2,444 lb.)	2511 kg (5,531 lb.)	1232 kg (2,714 lb.)	2511 kg (5,531 lb.)	1150 kg (2,534 lb.)	2511 kg (5,531 lb.)	1273 kg (2,803 lb.)
1690-mm (5 ft. 7 in.) Long	2477 kg (5,456 lb.)	1088 kg (2,396 lb.)	2477 kg (5,456 lb.)	1210 kg (2,666 lb.)	2477 kg (5,456 lb.)	1129 kg (2,486 lb.)	2477 kg (5,456 lb.)	1251 kg (2,755 lb.)

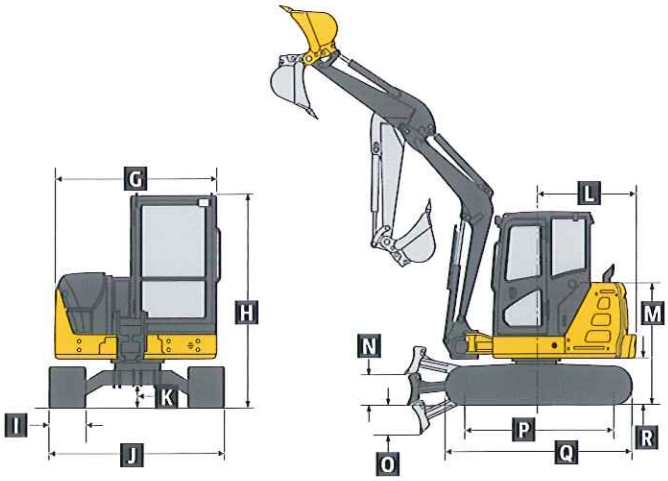
*Blade down (limited by hydraulics).

60G

Engine	60G			
Manufacturer and Model	Yanmar 4TNV98C			
Non-Road Emission Standard	EPA Final Tier 4/EU Stage IV			
Displacement	3.3 L (203 cu. in.)			
Net Power (ISO 9249)	39.6 kW (53 hp) at 2,000 rpm			
Powertrain				
Each track independently driven by hydrostatic axial-piston motor connected to 2-stage planetary gear-reduction box				
Maximum Travel Speed				
Low	2.9 km/h (1.8 mph)			
High	4.8 km/h (3.0 mph)			
Hydraulics				
Closed-center load sensing				
Main Pumps	1 variable-displacement pump			
Pump Flow	144 L/m (38.0 gpm)			
Auxiliary Flow	92 L/m (24.2 gpm)			
Controls	Hydraulic pilot-operated controls for boom, arm, bucket, swing, boom swing, blade, travel, and auxiliary functions			
Electrical				
Alternator Rating	55 amp			
Work Lights	2 halogen: 1 mounted on boom and 1 mounted on frame			
Undercarriage				
Track, Rubber	400 mm (16 in.)			
Ground Pressure	*1500-mm (4 ft. 11 in.) Standard Arm and Standard Counterweight*		*1850-mm (6 ft. 1 in.) Long Arm and Extra Counterweight*	
With Rubber Track	35 kPa (5.12 psi)		37 kPa (5.37 psi)	
Upperstructure				
Swing Speed	9.5 rpm			
Independent Swing Boom				
Left	80 deg.			
Right	60 deg.			
Swing Brake	Spring applied, hydraulically released, automatic, disc type			
Serviceability				
Refill Capacities				
Fuel Tank	120 L (31.7 gal.)			
Cooling System	7.7 L (8.1 qt.)			
Engine Oil with Filter	11.2 L (11.8 qt.)			
Hydraulic Tank	80 L (21.1 gal.)			
Operating Weights				
	1500-mm (4 ft. 11 in.) Standard Arm, Standard Counterweight, and Rubber Tracks	*1500-mm (4 ft. 11 in.) Standard Arm, Standard Counterweight, and Steel Tracks*	*1850-mm (6 ft. 1 in.) Long Arm, Extra Counterweight, and Rubber Tracks*	*1850-mm (6 ft. 1 in.) Long Arm, Extra Counterweight, and Steel Tracks*
With 0.22-m^3 (7.8 cu. ft.) Bucket, Full Fuel Tank, and 79-kg (175 lb.) Operator	6145 kg (13,547 lb.)	6245 kg (13,768 lb.)	6443 kg (14,204 lb.)	6543 kg (14,425 lb.)
Optional Angle Blade	458 kg (1,010 lb.)			
Counterweight				
Standard	745 kg (1,642 lb.)			
Additional	270 kg (595 lb.)			

Operating Dimensions	60G	
	1500-mm (4 ft. 11 in.) Standard Arm	*1850-mm (6 ft. 1 in.) Long Arm*
A Maximum Cutting Height	5.96 m (19 ft. 7 in.)	6.19 m (20 ft. 4 in.)
B Maximum Dumping Height	4.17 m (13 ft. 8 in.)	4.41 m (14 ft. 6 in.)
C Maximum Digging Depth	3.77 m (12 ft. 4 in.)	4.12 m (13 ft. 6 in.)
D Maximum Digging Reach	6.23 m (20 ft. 5 in.)	6.56 m (21 ft. 6 in.)
E Minimum Front Swing Radius	2.45 m (8 ft. 0 in.)	2.54 m (8 ft. 4 in.)
F Transport Length	5.76 m (18 ft. 11 in.)	5.90 m (19 ft. 4 in.)
Digging Force (ISO)		
Arm	31.1 kN (6,989 lb.)	27.0 kN (6,063 lb.)
Bucket	41.1 kN (9,237 lb.)	41.1 kN (9,237 lb.)
Machine Dimensions		
G Upperstructure Width	2.00 m (6 ft. 7 in.)	
H Overall Height	2.54 m (8 ft. 4 in.)	
I Track Width	400 mm (16 in.)	
J Undercarriage Width	2.00 m (6 ft. 7 in.)	
K Ground Clearance	340 mm (13 in.)	
L Tail Swing Radius		
With Standard Arm	1.30 m (4 ft. 3 in.)	
With Long Arm and Extra Counterweight	1.41 m (4 ft. 8 in.)	
M Engine Cover Height	1.60 m (5 ft. 3 in.)	
N Maximum Blade Lift Above Ground	460 mm (18 in.)	
O Maximum Blade Drop Below Ground	370 mm (15 in.)	
Blade		
Width	2.00 m (6 ft. 7 in.)	
Height	420 mm (16 in.)	
P Sprocket Center to Idler Center	1.99 m (6 ft. 6 in.)	
Q Track Length	2.50 m (8 ft. 2 in.)	
R Counterweight Clearance	620 mm (24 in.)	





Lift Capacities **Ground Level at 3.05-m (10 ft.) Radius**	*Standard Counterweight and Rubber Track*		*Standard Counterweight and Steel Track*		*Extra Counterweight and Rubber Track*		*Extra Counterweight and Steel Track*	
Arm	*Over Front**	*Over Side*	*Over Front**	*Over Side*	*Over Front**	*Over Side*	*Over Front**	*Over Side*
1500-mm (4 ft. 11 in.) Standard	**3785 kg (8,345 lb.)**	1463 kg (3,225 lb.)	**3785 kg (8,345 lb.)**	1490 kg (3,284 lb.)	**3785 kg (8,345 lb.)**	1657 kg (3,652 lb.)	**3785 kg (8,345 lb.)**	1683 kg (3,711 lb.)
1850-mm (6 ft. 1 in.) Long	**3719 kg (8,198 lb.)**	1444 kg (3,184 lb.)	**3719 kg (8,198 lb.)**	1471 kg (3,243 lb.)	**3719 kg (8,198 lb.)**	1638 kg (3,612 lb.)	**3719 kg (8,198 lb.)**	1665 kg (3,671 lb.)

*Blade down (limited by hydraulics).

Additional equipment

Key: ● Standard ▲ Optional or special

See your John Deere dealer for further information.

35G	50G	60G	Engine
●	●	●	Meets EPA Final Tier 4/EU Stage IV emissions
●	●	●	Engine coolant to –37 deg. C (–34 deg. F)
●	●	●	Engine preheater
●	●	●	Fan guard
●	●	●	Fuel/water separator
●	●	●	Full-flow oil filter
●	●	●	Isolation mounted
●	●	●	Key start switch with electric fuel shutoff
●	●	●	Single dry-type air filter
			Hydraulic System
●	●	●	Auxiliary function right-hand pilot-lever control
●	●	●	Auxiliary hydraulic lines with quick-couplers to end of boom
●	●	●	Auxiliary return-flow selector valve
●	●	●	Axial-piston swing motor
●	●	●	Boom-swing foot control
●	●	●	Excavator-to-backhoe control pattern change valve
●			Open center with 2 variable-displacement pumps and 1 fixed-gear pump
	●	●	Closed center load sensing with 1 variable-displacement pump
●	●	●	Hydraulic pilot-operated controls for boom, arm, bucket, swing, boom swing, blade, travel, and auxiliary functions
●	●	●	Wet-disc swing brake
			Undercarriage
●	●	●	Planetary final drive
●	●	●	Propel motor shield
●	●	●	2-speed axial-piston propel motors
●			Rubber track, 300 mm (12 in.)
	●	●	Rubber track, 400 mm (16 in.)
▲			Steel track, 300 mm (12 in.) with triple semi-grousers

35G	50G	60G	Undercarriage *(continued)*
	▲	▲	Steel track, 400 mm (16 in.) with triple semi-grousers
▲			Rubber crawler pad, 300 mm (12 in.)
	▲	▲	Rubber crawler pad, 400 mm (16 in.)
			Upperstructure
●	●	●	360-deg. rotation
●			Counterweight, 540 kg (1,190 lb.)
	●		Counterweight, 700 kg (1,543 lb.)
		●	Counterweight, 745 kg (1,642 lb.)
●	●	●	Hinged service-access doors
	●	●	Toolbox
●	●		ROPS/TOPS/FOPS (canopy)
▲	▲	●	ROPS/TOPS/FOPS (cab) with air conditioning and heater
●	●	●	Vandal protection for service doors, fuel cap, and toolbox
●	●		Zero-tail-swing configuration
		●	Reduced-tail-swing configuration
			Front Attachments
●			Arm, 1315 mm (4 ft. 4 in.)
	●		Arm, 1380 mm (4 ft. 6 in.)
		●	Arm, 1500 mm (4 ft. 11 in.)
▲			Long arm, 1715 mm (5 ft. 8 in.), includes additional 240-kg (529 lb.) counterweight
	▲		Long arm, 1690 mm (5 ft. 7 in.), includes additional 200-kg (441 lb.) counterweight
		▲	Long arm, 1850 mm (6 ft. 1 in.), includes additional 270-kg (595 lb.) counterweight
●	●	●	Articulation hose shield
●			Backfill blade, 1.74 m (5 ft. 9 in.)
	●	●	Backfill blade, 2.00 m (6 ft. 7 in.)
▲	▲	▲	Hydraulic angle backfill blade
●			Boom, 2.465 m (8 ft. 1 in.)
	●		Boom, 2.85 m (9 ft. 4.2 in.)
		●	Boom, 2.965 m (9 ft. 9 in.)
●	●	●	Mechanical quick-coupler

35G	50G	60G	Front Attachments *(continued)*
▲	▲	▲	Augers: Planetary / Chain drive / Bits / Bit adapters
▲	▲	▲	Clamp
▲	▲	▲	Hammers: Points / Tools
▲	▲	▲	Quick-coupler buckets: Bucket teeth / Ditching / Heavy-duty
			Operator's Station
●	●	●	Horn
●	●	●	Hour meter
●	●	●	Instrumentation lights
●	●	●	Monitor system: Preheat indicator / Engine oil pressure indicator with alarm / Alternator voltage indicator / Fuel gauge and low-fuel-level indicator / Engine coolant temperature gauge and engine coolant temperature indicator with alarm / Hour meter / Work lights indicator
●	●	●	Motion alarm with cancel switch
●	●	●	Work lights switch
●	●	●	Propel levers and foldable pedals
●	●	●	2 travel speeds with automatic shifting
●	●	●	Seat belt, 51 mm (2 in.), retractable
▲	▲	▲	Seat belt, 76 mm (3 in.), retractable
●	●		Vinyl seat with fore/aft adjustment
▲	▲	●	Suspension seat (cloth)
▲	▲	▲	Front screen
▲	▲	▲	Rear secondary exit kit
			Electrical
●	●	●	12-volt accessory outlet
●	●	●	Alternator, 55 amp
●	●	●	Low-maintenance battery
●	●	●	Blade-type multi-fused circuits
●	●	●	Positive-terminal battery covers
			Lights
●	●	●	Work lights: Halogen / 1 mounted on operator's station / 1 mounted on boom

Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan at test conditions per ISO 9249. These machines are not equipped with spark-arrestor mufflers. Usage in forestry applications is not recommended. 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 units with standard arms, full fuel tanks, and 79-kg (175 lb.) operators, a 35G canopy unit with 610-mm (24 in.), 0.11-m³ (4.0 cu. ft.) bucket, 300-mm (12 in.) rubber track, and 540-kg (1,190 lb.) counterweight, a 50G canopy unit with 610-mm (24 in.), 0.16-m³ (5.7 cu. ft.) bucket, 400-mm (16 in.) rubber track, and 700-kg (1,543 lb.) counterweight, and a 60G cab unit with 0.19-m³ (6.8 cu. ft.) bucket, 400-mm (16 in.) rubber track, and 745-kg (1,642 lb.) counterweight.

JohnDeere.com

DKAXGCWP Litho in U.S.A. (15-11)

190G W/230G W

19 960–24 140-kg (44,000–53,220 lb.) Operating Weight

JOHN DEERE

The wheel deal.

Looking to get on a roll? 190G W and 230G W Wheeled Excavators travel on tires, so they're more mobile and maneuverable than tracked excavators. Their more spacious and comfortable cabs come equipped with easy-to-navigate enhanced LCD monitors that let operators easily dial-in a wealth of machine info and functionality. Rugged EPA Interim Tier 4 (IT4)/EU Stage IIIB diesels meet rigid emission regulations, enabling you to work, wherever there's work. Delivering the smoothness, control, and operating ease you've come to expect from John Deere, these wheeled excavators are the real deal.

Key specifications	190G W	230G W
Net peak power (ISO 9249)	119 kW (159 hp)	119 kW (159 hp)
Operating weight	20 550 kg (45,300 lb.)*	24 140 kg (53,220 lb.)*
Digging depth	5.93 m (19 ft. 5 in.)	6.14 m (20 ft. 2 in.)
Arm force (ISO)	91 kN (20,458 lb.)	114 kN (25,628 lb.)
Maximum travel speed	35 km/h (21.8 mph)	27.5 km/h (17.1 mph)

*With two-piece boom and front and rear outriggers.

John Deere WorkSight™ is an exclusive suite of telematic solutions that increases uptime while lowering operating costs. At its heart, JDLink™ Ultimate machine monitoring provides real-time utilization data and alerts to help you maximize productivity and efficiency while minimizing downtime. Remote diagnostics enable your dealer to read codes, record performance data, and even update software without a trip to the jobsite.

Choose from a variety of boom, blade, outrigger, and bucket options to equip your machine exactly as needed to optimize your setup.

Spacious cab delivers excellent visibility and less noise, along with a bevy of creature comforts.

The IT4/Stage IIIB technology utilized in our diesel engine is simple, fuel efficient, fully integrated, and fully supported. Seamless solutions that require no operator input or loss of productivity include field-proven cooled exhaust gas recirculation (EGR) for reducing NO_x, and a diesel particulate filter (DPF) and diesel oxidation catalyst (DOC) to reduce particulate matter.

Rubber tires allow you to drive quickly from job to job instead of loading up a trailer — plus they're much friendlier to paved surfaces.

The G-Series' short wheelbase makes them very adept in close quarters — unlike unwieldy truck-mounted excavators. For work close-up, opt for the two-piece boom.

Multi-language LCD monitor and rotary dial provide intuitive access to a wealth of information and functions.

Streetwise.

Work has never been easier than with John Deere wheeled excavators. They're the perfect "Swiss Army knife" for a variety of work, whether it's clearing ditches, repairing sewers or potholes, loading trucks, or moving Jersey barriers. Rubber tires and transport speeds as fast as 35 km/h (21.7 mph) mean you don't need to load them on a trailer to travel to a nearby job or across pavement. Plenty of street smarts, too, with the Powerwise III™ engine/hydraulic-management system, three productivity modes, and Power Dig and Auto Power Lift functions. Add any of the many available options to tackle a wide variety of on- and off-road work.

When the digging gets tough, press the Power Dig button for the extra hydraulic power you need to muscle through. Need a little extra lift when craning? Auto Power Lift automatically engages when the boom is raised.

Powerwise III perfectly balances engine performance and hydraulic flow for predictable operation. Three productivity modes allow you to choose the digging style that fits the job. ***High productivity*** delivers more power and faster hydraulic response to move more material. ***Power*** delivers smooth and balanced metering for normal operation. ***Economy*** reduces top speed and helps save fuel.

Impressive horsepower, weight, and dig forces make these machines highly productive for a wide variety of work.

Activate the axle-lock switch on the steering column to hold the machine more steady while digging or handling material when the stabilizers are not in use. Engage the brake at the same time to add even more stability.

Fast travel speed and boom and arm movement combined with superior arm force help speed cycle times. Wide axles, rock-solid stability, and substantial lift capabilities allow these machines to quickly move Jersey barriers.

Low-flow assist hydraulics come standard, perfect for lower-pressure, lower-flow applications like bucket-tilt or -swinger attachments. Need additional hydraulic capability? Dealer-installed high-pressure, high-flow auxiliary hydraulic packages are available.

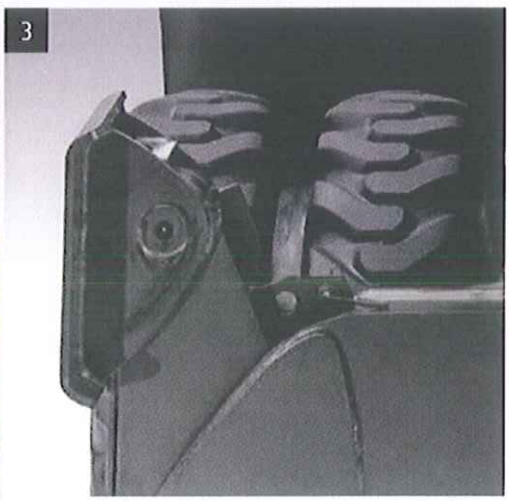
Standard deluxe lighting package provides 360-deg. illumination of the work area so you can extend the workday beyond daylight hours.

If you don't need a blade, choose the four-outrigger option for maximum stability. You can activate the outriggers together or independently to quickly and easily level the machine.

1. Refined parallelogram blade better handles backfill and cleanup duties, while serving as a third stabilizer during digging.

2. Monoblock boom delivers the reach and lift capacity you need for long-distance work. Or opt for a two-piece boom for added versatility.

3. Standard solid-rubber spacer between the heavy-duty dual tires puts pressure on the sidewalls to help keep the machine more stable. It also keeps mud and debris out, for longer tire life.



Tap into your full potential.

Operators will have no trouble "dialing it up a notch" in this spacious, well-appointed cab. The refined monitor employs a rotary control that operators can simply turn and tap to access an abundance of performance and convenience functions and features. Operators will also appreciate the comfortable fabric-covered high-back seat, unsurpassed all-round visibility, low-effort joysticks, a highly efficient HVAC system, and numerous other amenities. The 190G W and 230G W provide everything your operators need to do their best work.

Generous hydraulic flow and smooth, predictable metering ensure powerful digging force, precise low-effort control, and superb multifunction operation. Quick, responsive pump activation eliminates any delay in functions.

Wide expanse of front and side glass, narrow front cab posts, large overhead glass, and numerous mirrors provide virtually unobstructed all-around visibility. If you need to see more, the standard rearview camera displays the action behind on the monitor.

We've got your back with a sculpted mechanical-suspension high-back seat. Seat has 318 mm (12.5 in.) of travel, sliding together or independent of the joystick console. So it won't cramp an operator's style.

Two-speed PowerShift™ transmission shifts smoothly on-the-go from low to high in each speed, enabling multiple operating speeds for better responsiveness. Downshifting isn't a problem either, since the transmission will only shift within certain travel-speed parameters — protecting both operator and drivetrain.

Multi-language LCD monitor provides intuitive access to a wealth of information and functions. Simply turn and tap the rotary dial to select work mode, access operating info, check maintenance intervals, source diagnostic codes, adjust cab temperature, and tune the radio. Plus much more.

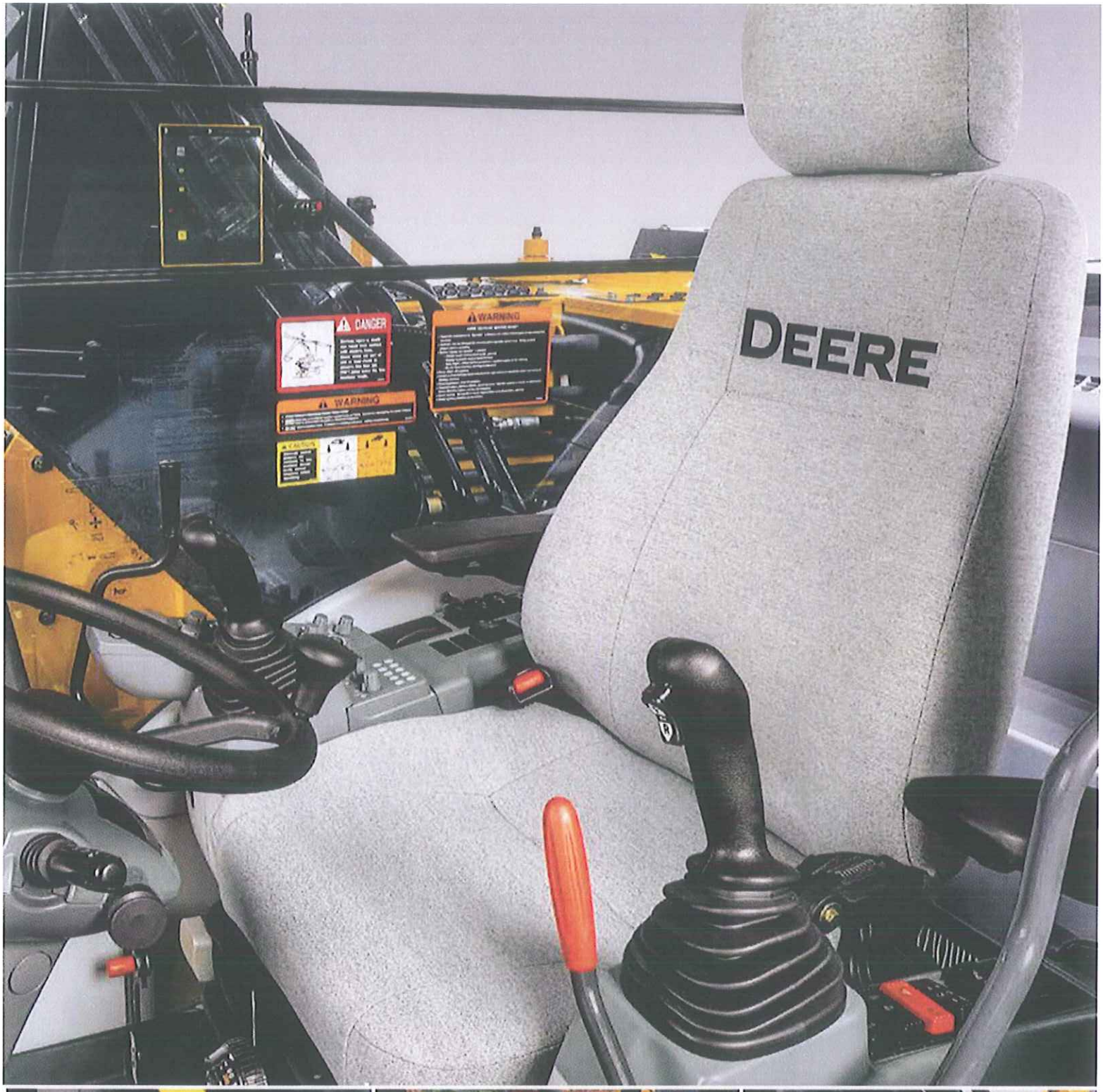
1

1. The F-N-R directional switch is now conveniently located on the left-hand pilot lever, making it is easier to control the blade and stabilizer functions.

2. Ergonomically correct short-throw pilot levers provide smooth, predictable fingertip control with less movement or effort. Push buttons in the right lever allow fingertip control of auxiliary hydraulic flow for operating attachments.

3. Each outrigger is independently controlled, enabling optimum placement to help complete the job safely and surely.

4. Automatic, high-velocity bi-level climate-control system with automotive-style adjustable louvers helps keep the glass clear and the cab comfortable.



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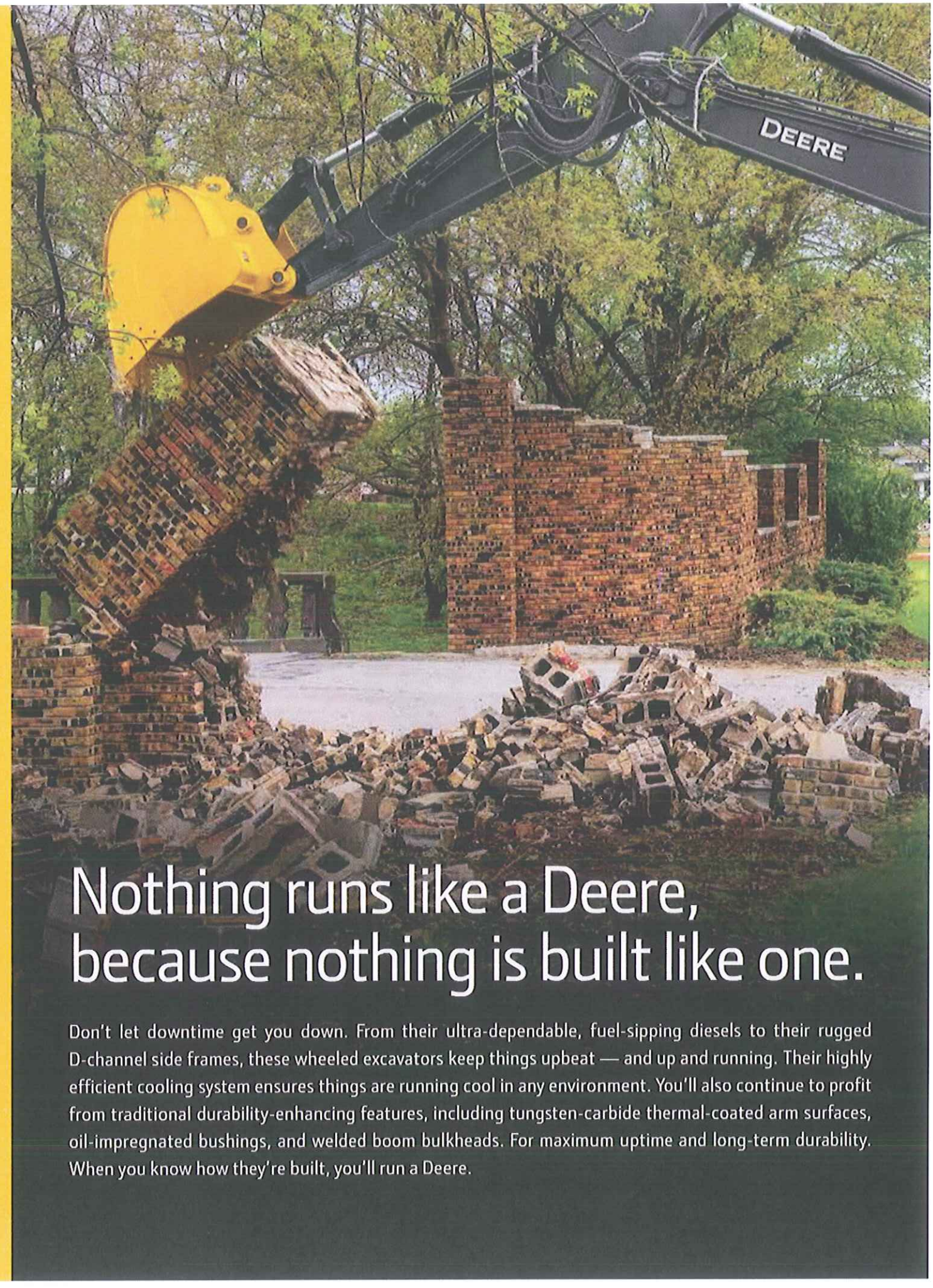


Nothing runs like a Deere, because nothing is built like one.

Don't let downtime get you down. From their ultra-dependable, fuel-sipping diesels to their rugged D-channel side frames, these wheeled excavators keep things upbeat — and up and running. Their highly efficient cooling system ensures things are running cool in any environment. You'll also continue to profit from traditional durability-enhancing features, including tungsten-carbide thermal-coated arm surfaces, oil-impregnated bushings, and welded boom bulkheads. For maximum uptime and long-term durability. When you know how they're built, you'll run a Deere.

A John Deere exclusive, three welded bulkheads within the boom resist torsional stress for unsurpassed durability. Booms, arms, and mainframes are so tough, they're warranted for three years or 10,000 hours.

Highly efficient, heavy-duty cooling system keeps things cool, even in the toughest environments.

Oil-impregnated bushings enhance durability and extend grease intervals to 500 hours for the arm-and-boom joint and 100 hours for the bucket joint.

PowerShift transmission has been integrated with the axle and repositioned higher above ground level to better protect it from damage.

Wet-type disc brakes are virtually maintenance free and deliver reliable, long-term stopping power.

1. Heavy-duty covers on the oversize outriggers help prevent damage to the hydraulic cylinders.

2. Large chassis beams, swing bearings, and boom-foot areas deliver rock-solid durability.

3. Tungsten-carbide coating creates an extremely wear-resistant surface to protect the all-important bucket-to-arm joint.

Let's roll.

G-Series Wheeled Excavators are loaded with features that make them hassle-free to service and maintain, so you can keep things rolling. Large, easy-to-open doors and easy-access service points make quick work of the daily routine. Remote-mounted vertical oil and fuel filters minimize maintenance. And extended engine and hydraulic fluid-service intervals increase uptime and reduce daily operating costs. Plus the Machine Information Center (MIC), state-of-the-art LCD color monitor, and fluid-sample ports help you make timely decisions about machine upkeep — and manage uptime and costs.

Auto-idle automatically reduces engine speed when hydraulics aren't in use. Auto-shutdown further preserves precious fuel.

MIC captures and stores vital machine performance and utilization data to help improve uptime.

Large fuel tanks and 500- and 5,000-hour engine and hydraulic oil-service intervals decrease downtime for routine maintenance.

Ground-level fresh-air cab filter is quickly serviced from outside the cab where it's more likely to get done.

Reinforced resin thrust plates, grooved bushings, and thermal-coated bucket joints increase arm, boom, and bucket lube intervals to 500 hours.

Ultimate Uptime, featuring John Deere WorkSight, is a customizable support solution available exclusively from your Deere dealer. This flexible offering maximizes equipment availability with standard John Deere WorkSight capabilities that can help prevent future downtime and speed repairs when needed. In addition to the base John Deere WorkSight features, our dealers work with you to build an uptime package that meets the specific needs of your machine, fleet, project, and business, including customized maintenance and repair agreements, onsite parts availability, extended warranties, fluid sampling, response-time guarantees, and more.

1. Easy-to-read LCD monitor tracks scheduled maintenance intervals and issues reminders. Should a problem arise, it provides diagnostic information to help decrease downtime.

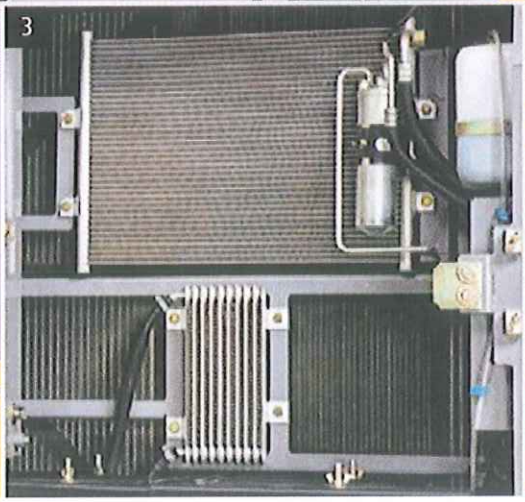
2. Swing open the side panels on either side of the machine to provide even more wide-open access to components.

3. Fuel coolers and A/C condensers swing out, simplifying clean-out. Side-by-side coolers provide easy access.

4. Vertical spin-on engine oil filters and fuel/water separators are conveniently grouped in the right rear compartment, for easy ground-level servicing.

2

3

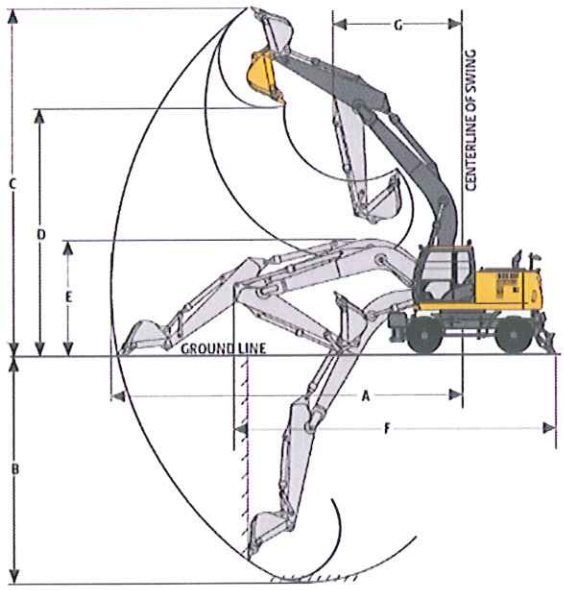


4

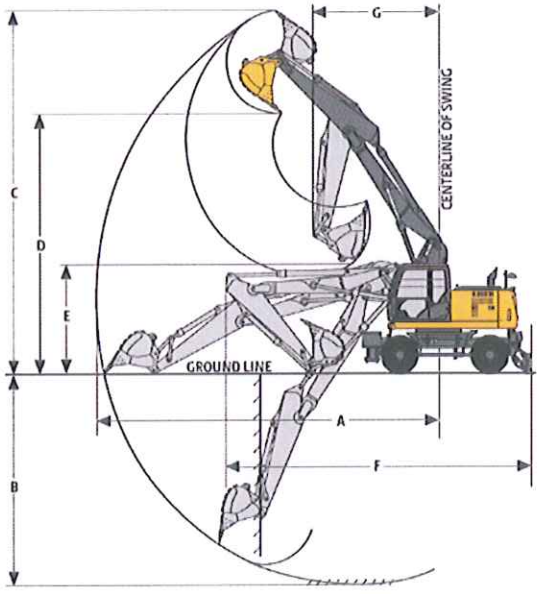
190G W

Engine	190G W		
Manufacturer and Model	Isuzu 4HK1		
Non-Road Emission Standard	EPA Interim Tier 4/EU Stage IIIB		
Cylinders	4		
Displacement	5.2 L (317 cu. in.)		
Net Peak Power (ISO 9249)	119 kW (159 hp) at 2,000 rpm		
Off-Level Capacity	67% (34 deg.)		
Aspiration	Turbocharged, air-to-air charge-air cooler		
Cooling			
High-efficiency, direct-drive suction-type fan			
Powertrain			
2-speed propel with creeper mode and automatic shift			
Maximum Travel Speed			
Creeper	2.6 km/h (1.6 mph)		
Low	8.6 km/h (5.3 mph)		
High	35.0 km/h (21.8 mph)		
Front Axle	All-wheel drive; can be locked hydraulically in any position		
Oscillation	± 7 deg.		
Brakes	Maintenance-free wet-disc brakes on front and rear axles; fully hydraulic service brakes		
Tires	Standard size, dual-traction-type 10.00-20 14PR tires		
Drawbar Pull	9534 kgf (20,570 lbf)		
Hydraulics			
Main Pumps	2 variable-displacement axial-piston pumps		
Pump Flow, Maximum x 2	165 L/min. (43.6 gpm)		
System Operating Pressure			
Implement Circuits	34 300 kPa (4,975 psi)		
Travel Circuits	34 800 kPa (5,047 psi)		
Swing Circuits	33 400 kPa (4,844 psi)		
Power Boost	36 300 kPa (5,265 psi)		
Controls	Pilot levers, short stroke, low-effort hydraulic pilot controls with shutoff lever		
Cylinders			
	Bore	*Rod Diameter*	*Stroke*
Monoblock Boom (2)	120 mm (4.7 in.)	85 mm (3.4 in.)	1050 mm (41.3 in.)
2-Piece Boom (2)	120 mm (4.7 in.)	85 mm (3.4 in.)	980 mm (38.6 in.)
Positioning, 2-Piece Boom (1)	170 mm (6.7 in.)	105 mm (4.1 in.)	670 mm (26.4 in.)
Arm (1)	125 mm (4.9 in.)	90 mm (3.5 in.)	1371 mm (54.0 in.)
Bucket (1)	105 mm (4.1 in.)	75 mm (3.0 in.)	1060 mm (41.7 in.)
Electrical			
Voltage	24 volt		
Number of Batteries (12 volt)	2		
Alternator Rating	50 amp		
Lights (6)	Headlights (2), top of cab (2), rear of cab (1), and boom (1)		
Driving Lights	Headlights (2), turn signals and hazard lights, brake lights, and side marker lights		
Swing Mechanism			
Speed	12.2 rpm		
Torque	53 000 Nm (39,091 lb.-ft.)		
Serviceability			
Refill Capacities			
Fuel Tank	290 L (76.6 gal.)		
Engine Coolant	25 L (6.6 gal.)		
Engine Oil with Filter	23 L (6.1 gal.)		
Hydraulic Tank	100 L (26.4 gal.)		
Hydraulic System	180 L (47.6 gal.)		
Swing Drive	6.2 L (6.6 qt.)		
Transmission	2.5 L (2.6 qt.)		

Serviceability *(continued)*	190G W	
Refill Capacities *(continued)*		
Differential Gear		
Front	9.5 L (2.5 gal.)	
Rear	14 L (3.7 gal.)	
Front and Rear Hubs	2.5 L x 2 (2.6 qt. x 2)	
Operating Weights		
With full fuel tank; 79-kg (175 lb.) operator; 0.7-m³ (0.92 cu. yd.), 900-mm (35 in.), 610-kg (1,345 lb.) bucket; 2.71-m (8 ft. 11 in.) arm; standard gauge; and 4000-kg (8,819 lb.) counterweight		
	Monoblock Boom	*2-Piece Boom*
Front Outrigger and Rear Outrigger	20 200 kg (44,530 lb.)	20 550 kg (45,300 lb.)
Front Blade and Rear Outrigger	19 960 kg (44,000 lb.)	20 310 kg (44,780 lb.)
Operating Dimensions		
	Monoblock Boom	*2-Piece Boom*
Arm Digging Force		
SAE	87 kN (19,558 lb.)	87 kN (19,558 lb.)
ISO	91 kN (20,458 lb.)	91 kN (20,458 lb.)
Bucket Digging Force		
SAE	107 kN (24,055 lb.)	107 kN (24,055 lb.)
ISO	123 kN (27,651 lb.)	123 kN (27,651 lb.)
A Maximum Reach	9.58 m (31 ft. 5 in.)	9.48 m (31 ft. 1 in.)
B Maximum Digging Depth	5.83 m (19 ft. 2 in.)	5.93 m (19 ft. 5 in.)
C Maximum Cutting Height	9.25 m (30 ft. 4 in.)	9.85 m (32 ft. 4 in.)
D Maximum Dumping Height	6.45 m (21 ft. 2 in.)	6.95 m (22 ft. 10 in.)
E Overall Height	3.13 m (10 ft. 3 in.)	3.21 m (10 ft. 6 in.)
F Overall Length		
Front Outrigger and Rear Outrigger	9.54 m (31 ft. 4 in.)	9.36 m (30 ft. 9 in.)
Front Blade and Rear Outrigger	9.48 m (31 ft. 1 in.)	9.30 m (30 ft. 6 in.)
G Minimum Swing Radius	3.48 m (11 ft. 5 in.)	3.00 m (9 ft. 10 in.)



190G W EXCAVATOR WITH MONOBLOCK BOOM

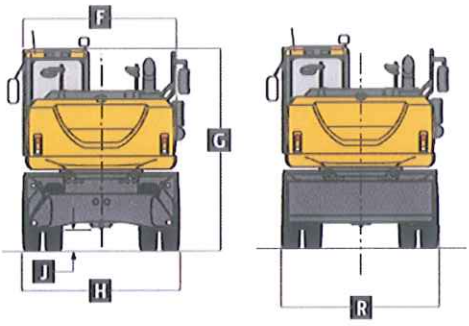


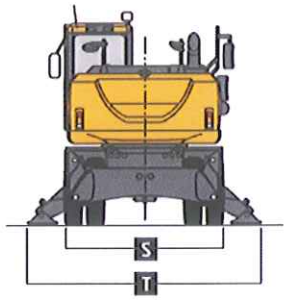
190G W EXCAVATOR WITH 2-PIECE BOOM

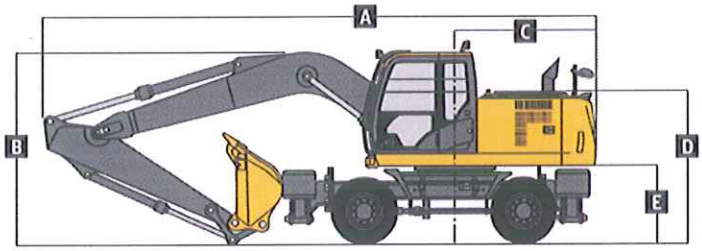
Machine Dimensions — 190G W

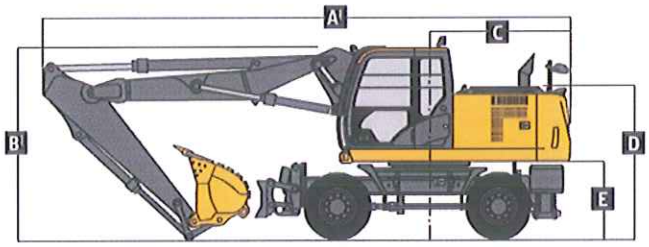
With standard gauge and 2.71-m (8 ft. 11 in.) arm; dimensions are provided for both the front and rear outrigger configuration, and for the front blade and rear outrigger configuration

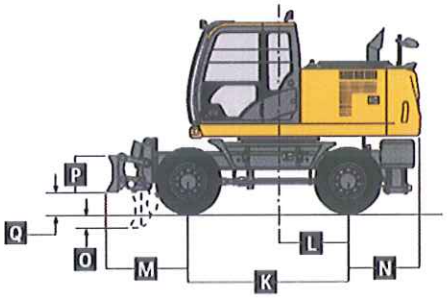
		Monoblock Boom	*2-Piece Boom*
A	Overall Length	8.98 m (29 ft. 6 in.)	—
A¹	Overall Length	—	8.80 m (28 ft. 10 in.)
B	Overall Height	3.13 m (10 ft. 3 in.)	—
B¹	Overall Height	—	3.21 m (10 ft. 6 in.)
C	Rear-End Swing Radius	2.32 m (7 ft. 7 in.)	2.32 m (7 ft. 7 in.)
D	Engine Cover Height	2.48 m (8 ft. 2 in.)	2.48 m (8 ft. 2 in.)
E	Counterweight Clearance	1.24 m (4 ft. 1 in.)	1.24 m (4 ft. 1 in.)
F	Overall Width of Upperstructure	2.45 m (8 ft. 0 in.)	2.45 m (8 ft. 0 in.)
G	Overall Height of Cab	3.13 m (10 ft. 3 in.)	3.13 m (10 ft. 3 in.)
H	Overall Width of Tires	2.55 m (8 ft. 4 in.)	2.55 m (8 ft. 4 in.)
J	Minimum Ground Clearance	0.35 m (13.8 in.)	0.35 m (13.8 in.)
K	Wheelbase	2.65 m (8 ft. 8 in.)	2.65 m (8 ft. 8 in.)
L	Swing Center to Rear Axle	1.15 m (3 ft. 9 in.)	1.15 m (3 ft. 9 in.)
M	Front Overhang		
	Front Outrigger and Rear Outrigger	1.38 m (4 ft. 6 in.)	1.38 m (4 ft. 6 in.)
	Front Blade and Rear Outrigger	1.32 m (4 ft. 4 in.)	1.32 m (4 ft. 4 in.)
N	Rear Overhang	1.09 m (3 ft. 7 in.)	1.09 m (3 ft. 7 in.)
O	Maximum Blader Lower	0.22 m (8.7 in.)	0.22 m (8.7 in.)
P	Overall Height of Blade	0.59 m (23.2 in.)	0.59 m (23.2 in.)
Q	Maximum Blade Raise	0.37 m (14.6 in.)	0.37 m (14.6 in.)
R	Overall Width of Blade	2.53 m (8 ft. 4 in.)	2.53 m (8 ft. 4 in.)
S	Overall Width with Outrigger Retracted	2.47 m (8 ft. 1 in.)	2.47 m (8 ft. 1 in.)
T	Overall Width with Outrigger Extended	3.44 m (11 ft. 3 in.)	3.44 m (11 ft. 3 in.)
V	Overall Height of Boom (traveling)	4.00 m (13 ft. 1 in.)	4.00 m (13 ft. 1 in.)
W	Front Overhang (traveling)	3.33 m (10 ft. 11 in.)	3.33 m (10 ft. 11 in.)

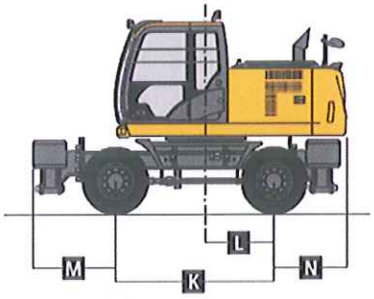


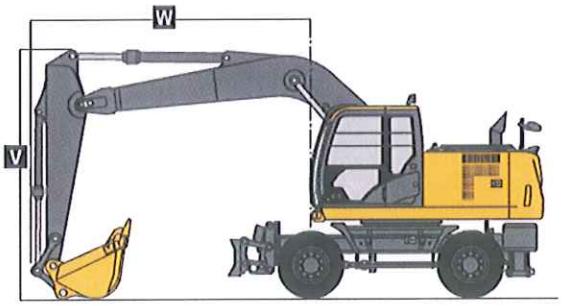


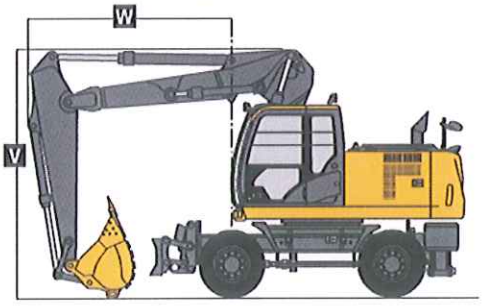












Lift Capacities 190G W

Boldface type indicates hydraulically limited capacities; lightface type indicates stability-limited capacities, in kg (lb.). Ratings at bucket lift hook; machine equipped with 600-kg (1,323 lb.) bucket, 2.71-m (8 ft. 11 in.) arm, and standard counterweight; and situated on firm, level, uniform supporting surface. Figures do not exceed 87% of hydraulic capacity or 75% of weight needed to tip machine.

	HORIZONTAL DISTANCE FROM CENTERLINE OF ROTATION									
	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.)	
LOAD POINT HEIGHT	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
With monoblock boom, rear outriggers, and front blade down										
6.0 m (20 ft.)							4420 (9,420)	4420 (9,420)		
4.5 m (15 ft.)					6430 (13,740)	6430 (13,740)	5320 (11,560)	4730 (10,160)	3330	3170
3.0 m (10 ft.)					7910 (17,040)	7280 (15,660)	5930 (12,850)	4520 (9,730)	4730 (9,870)	3090 (6,630)
1.5 m (5 ft.)					9060 (19,570)	6820 (14,670)	6470 (14,010)	4310 (9,280)	4620 (9,930)	3000 (6,440)
Ground Line					9290 (20,130)	6580 (14,140)	6530 (14,030)	4170 (8,960)	4550 (9,770)	2930 (6,290)
−1.5 m (−5 ft.)			7920 (18,050)	7920 (18,050)	8650 (18,740)	6520 (14,000)	6300 (13,600)	4110 (8,840)		
−3.0 m (−10 ft.)			9560 (20,680)	9560 (20,680)	7140 (15,380)	6590 (14,150)	5100 (10,810)	4150 (8,950)		
With monoblock boom and 4 outriggers down										
6.0 m (20 ft.)							4420 (9,420)	4420 (9,420)		
4.5 m (15 ft.)					6430 (13,740)	6430 (13,740)	5320 (11,560)	5320 (11,560)	3330	3330
3.0 m (10 ft.)					7910 (17,040)	7910 (17,040)	5930 (12,850)	5280 (11,350)	4870 (9,870)	3620 (7,760)
1.5 m (5 ft.)					9060 (19,570)	8100 (17,410)	6470 (14,010)	5060 (10,890)	4830 (10,370)	3520 (7,560)
Ground Line					9290 (20,130)	7850 (16,850)	6660 (14,420)	4910 (10,560)	4750 (10,210)	3450 (7,410)
−1.5 m (−5 ft.)			7920 (18,050)	7920 (18,050)	8650 (18,740)	7780 (16,700)	6300 (13,600)	4850 (10,430)		
−3.0 m (−10 ft.)			9560 (20,680)	9560 (20,680)	7140 (15,380)	7140 (15,380)	5100 (10,810)	4900 (10,550)		
With 2-piece boom, rear outriggers, and front blade down										
6.0 m (20 ft.)							3980 (8,790)	3980 (8,790)		
4.5 m (15 ft.)					4860 (10,510)	4860 (10,510)	4330 (9,450)	4330 (9,450)	2820	2820
3.0 m (10 ft.)			8700 (19,130)	8700 (19,130)	6500 (13,970)	6500 (13,970)	5050 (10,960)	4710 (10,130)	4430 (8,980)	3210 (6,840)
1.5 m (5 ft.)			10 630 (23,330)	10 630 (23,330)	8100 (17,470)	7210 (15,500)	5830 (12,630)	4670 (10,070)	4740 (10,190)	3140 (6,700)
Ground Line	8670 (19,420)	8670 (19,420)	12 770 (28,000)	12 770 (28,000)	9010 (19,490)	7250 (15,600)	6400 (13,860)	4710 (10,070)	4670 (9,980)	3030 (6,460)
−1.5 m (−5 ft.)	13 900 (31,210)	13 900 (31,210)	14 840 (32,210)	14 660 (31,430)	9230 (19,990)	7490 (16,090)	6610 (14,310)	4460 (9,530)		
−3.0 m (−10 ft.)	22 710 (51,650)	22 710 (51,650)	15 310 (33,190)	15 260 (33,000)	9590 (20,730)	7130 (15,250)	6220 (13,080)	4280 (9,170)		

Lift Capacities *(continued)* **190G W**

Boldface type indicates hydraulically limited capacities; lightface type indicates stability-limited capacities, in kg (lb.). Ratings at bucket lift hook; machine equipped with 600-kg (1,323 lb.) bucket, 2.71-m (8 ft. 11 in.) arm, and standard counterweight; and situated on firm, level, uniform supporting surface. Figures do not exceed 87% of hydraulic capacity or 75% of weight needed to tip machine.

	HORIZONTAL DISTANCE FROM CENTERLINE OF ROTATION									
	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.)	
LOAD POINT HEIGHT	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
With 2-piece boom and 4 outriggers down										
6.0 m (20 ft.)							3980 (8,790)	3980 (8,790)		
4.5 m (15 ft.)					4860 (10,510)	4860 (10,510)	4330 (9,450)	4330 (9,450)	2820	2820
3.0 m (10 ft.)			8700 (19,130)	8700 (19,130)	6500 (13,970)	6500 (13,970)	5050 (10,960)	5050 (10,960)	4430 (8,980)	3730 (7,970)
1.5 m (5 ft.)			10 630 (23,330)	10 630 (23,330)	8100 (17,470)	8100 (17,470)	5830 (12,630)	5310 (11,430)	4770 (10,390)	3660 (7,820)
Ground Line	8670 (19,420)	8670 (19,420)	12 770 (28,000)	12 770 (28,000)	9010 (19,490)	8280 (17,820)	6400 (13,860)	5370 (11,600)	4860 (10,410)	3560 (7,610)
–1.5 m (–5 ft.)	13 900 (31,210)	13 900 (31,210)	14 840 (32,210)	14 840 (32,210)	9230 (19,990)	8490 (18,300)	6610 (14,310)	5230 (11,190)		
–3.0 m (–10 ft.)	22 710 (51,650)	22 710 (51,650)	15 310 (33,190)	15 310 (33,190)	9590 (20,730)	8450 (18,070)	6220 (13,080)	5040 (10,810)		

Buckets — 190G W

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 TK-Series Bucket 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, 2.71 m (8 ft. 11 in.)		Bucket Tip Radius		Number of Teeth
	mm	in.	m^3	cu. yd.	kg	lb.	kN	lb.	kN	lb.	mm	in.	
General-Purpose													
High-Capacity	762	30	0.60	0.79	650	1,432	122.7	27,582	91.2	20,512	1473	58.00	4
	914	36	0.76	1.00	735	1,621	122.7	27,582	91.2	20,512	1473	58.00	5
	1067	42	0.93	1.22	812	1,790	122.7	27,582	91.2	20,512	1473	58.00	5
	1219	48	1.09	1.43	896	1,976	122.7	27,582	91.2	20,512	1473	58.00	6
Heavy-Duty	610	24	0.40	0.52	543	1,197	123.6	27,780	91.5	20,563	1463	57.61	4
	762	30	0.54	0.71	621	1,369	123.5	27,768	91.5	20,561	1463	57.61	4
	914	36	0.69	0.90	707	1,559	123.5	27,768	91.5	20,561	1463	57.61	5
	1067	42	0.83	1.09	785	1,731	123.5	27,768	91.5	20,561	1463	57.61	5
	1219	48	0.99	1.29	871	1,921	123.5	27,768	91.5	20,561	1463	57.61	6
Heavy-Duty													
High-Capacity	610	24	0.43	0.56	646	1,424	122.7	27,582	91.2	20,512	1473	58.00	4
	762	30	0.58	0.76	723	1,593	122.7	27,582	91.2	20,512	1473	58.00	4
	914	36	0.74	0.97	808	1,782	122.7	27,582	91.2	20,512	1473	58.00	5
	1067	42	0.91	1.19	885	1,951	122.7	27,582	91.2	20,512	1473	58.00	5
	1219	48	1.06	1.39	577	1,271	122.7	27,582	91.2	20,512	1473	58.00	6
Ditching	1524	60	0.87	1.14	577	1,271	170.3	38,280	101.3	22,778	1057	41.62	0
General-Purpose													
High-Capacity	1219	48	1.09	1.43	577	1,271	122.7	27,582	91.2	20,512	1473	57.99	6

230G W

Engine	230G W		
Manufacturer and Model	Isuzu 4HK1		
Non-Road Emission Standard	EPA Interim Tier 4/EU Stage IIIB		
Cylinders	4		
Displacement	5.2 L (317 cu. in.)		
Net Peak Power (ISO 9249)	119 kW (159 hp) at 2,000 rpm		
Off-Level Capacity	60% (31 deg.)		
Aspiration	Turbocharged, air-to-air charge-air cooler		
Cooling			
High-efficiency, direct-drive suction-type fan			
Powertrain			
2-speed propel with creeper mode and automatic shift			
Maximum Travel Speed			
Creeper	2.9 km/h (1.8 mph)		
Low	7.4 km/h (4.6 mph)		
High	27.5 km/h (17.1 mph)		
Front Axle	All-wheel drive; can be locked hydraulically in any position		
Oscillation	± 6 deg.		
Brakes	Maintenance-free wet-disc brakes on front and rear axles; fully hydraulic service brakes		
Tires	Standard size, dual-traction-type 11.00-20 16PR tires		
Drawbar Pull	11 115 kgf (24,504 lbf)		
Hydraulics			
Main Pumps	2 variable-displacement axial-piston pumps		
Pump Flow, Maximum x 2	189 L/min. (49.9 gpm)		
System Operating Pressure			
Implement Circuits	34 300 kPa (4,975 psi)		
Travel Circuits	35 300 kPa (5,120 psi)		
Swing Circuits	30 200 kPa (4,380 psi)		
Power Boost	38 000 kPa (5,511 psi)		
Controls	Pilot levers, short stroke, low-effort hydraulic pilot controls with shutoff lever		
Cylinders			
	Bore	*Rod Diameter*	*Stroke*
Monoblock Boom (2)	125 mm (4.9 in.)	85 mm (3.4 in.)	1241 mm (48.9 in.)
2-Piece Boom (2)	130 mm (5.1 in.)	85 mm (3.4 in.)	1024 mm (40.3 in.)
Positioning, 2-Piece Boom (2)	180 mm (7.1 in.)	110 mm (4.3 in.)	680 mm (26.8 in.)
Arm (1)	135 mm (5.3 in.)	95 mm (3.7 in.)	1475 mm (58.1 in.)
Bucket (1)	115 mm (4.5 in.)	80 mm (3.2 in.)	1060 mm (41.7 in.)
Electrical			
Voltage	24 volt		
Number of Batteries (12 volt)	2		
Alternator Rating	50 amp		
Lights (6)	Headlights (2), top of cab (2), rear of cab (1), and boom (1)		
Driving Lights	Headlights (2), turn signals and hazard lights, brake lights, and side marker lights		
Swing Mechanism			
Speed	11.2 rpm		
Torque	61 500 Nm (45,360 lb.-ft.)		
Serviceability			
Refill Capacities			
Fuel Tank	400 L (105.7 gal.)		
Engine Coolant	25 L (6.6 gal.)		
Engine Oil with Filter	23 L (6.1 gal.)		
Hydraulic Tank	130 L (34.3 gal.)		
Hydraulic System	270 L (71.3 gal.)		
Swing Drive	6.2 L (6.6 qt.)		
Transmission	2.5 L (2.6 qt.)		

Serviceability *(continued)*	230G W	
Refill Capacities *(continued)*		
Differential Gear		
Front	11 L (2.9 gal.)	
Rear	14.5 L (3.8 gal.)	
Front and Rear Hubs	2.5 L x 2 (2.6 qt. x 2)	

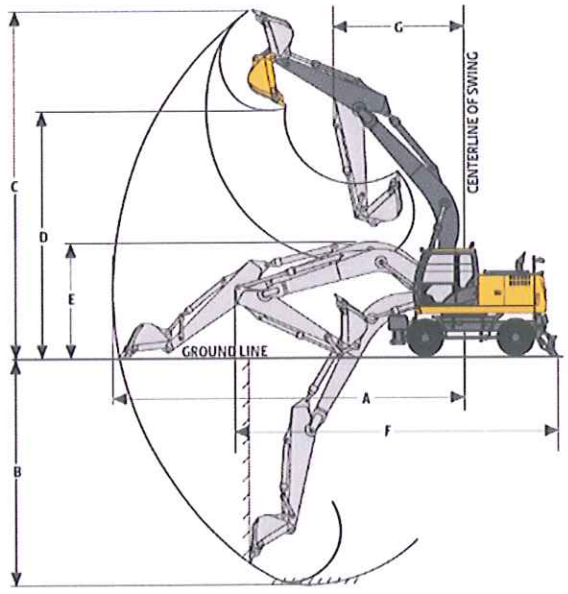
Operating Weights

With full fuel tank; 79-kg (175 lb.) operator; 0.8-m³ (1.04 cu. yd.), 900-mm (35 in.), 660-kg (1,455 lb.) general-purpose bucket; 2.91-m (9 ft. 7 in.) arm; standard gauge; and 4500-kg (9,921 lb.) counterweight

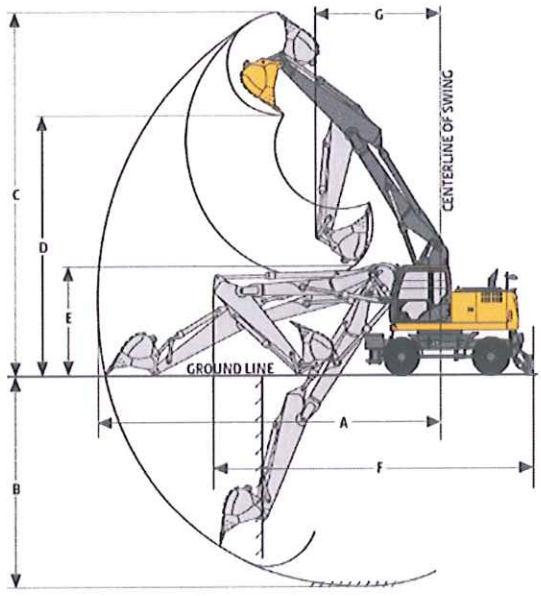
	Monoblock Boom	*2-Piece Boom*
Front Outrigger and Rear Outrigger	23 600 kg (52,030 lb.)	24 140 kg (53,220 lb.)
Front Blade and Rear Outrigger	23 290 kg (51,350 lb.)	23 830 kg (52,540 lb.)

Operating Dimensions

		Monoblock Boom	*2-Piece Boom*
	Arm Digging Force		
	SAE	110 kN (24,729 lb.)	110 kN (24,729 lb.)
	ISO	114 kN (25,628 lb.)	114 kN (25,628 lb.)
	Bucket Digging Force		
	SAE	141 kN (31,698 lb.)	141 kN (31,698 lb.)
	ISO	158 kN (35,520 lb.)	158 kN (35,520 lb.)
A	Maximum Reach	10.28 m (33 ft. 9 in.)	10.03 m (32 ft. 11 in.)
B	Maximum Digging Depth	6.31 m (20 ft. 8 in.)	6.14 m (20 ft. 2 in.)
C	Maximum Cutting Height	10.25 m (33 ft. 7 in.)	10.36 m (34 ft. 0 in.)
D	Maximum Dumping Height	7.38 m (24 ft. 3 in.)	7.43 m (24 ft. 5 in.)
E	Overall Height	3.19 m (10 ft. 6 in.)	3.32 m (10 ft. 11 in.)
F	Overall Length		
	Front Outrigger and Rear Outrigger	9.96 m (32 ft. 8 in.)	9.64 m (31 ft. 7 in.)
	Front Blade and Rear Outrigger	9.96 m (32 ft. 8 in.)	9.64 m (31 ft. 7 in.)
G	Minimum Swing Radius	3.55 m (11 ft. 8 in.)	3.42 m (11 ft. 3 in.)

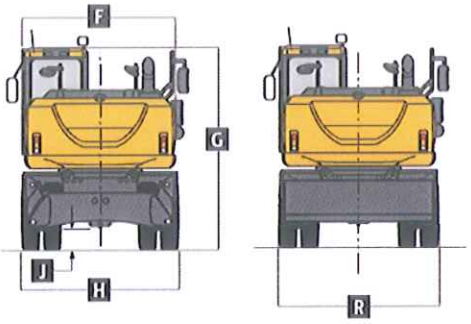


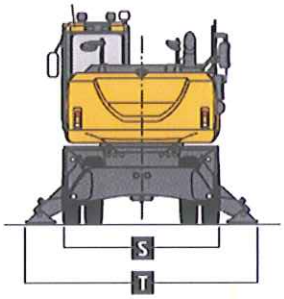
230G W EXCAVATOR WITH MONOBLOCK BOOM

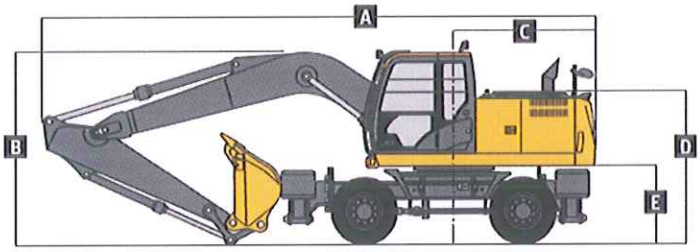


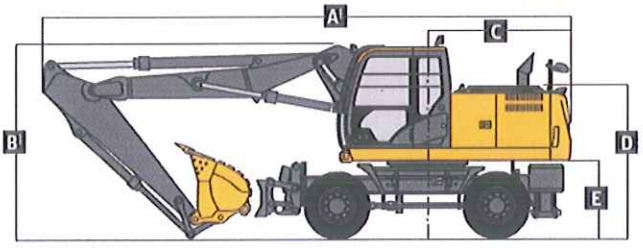
230G W EXCAVATOR WITH 2-PIECE BOOM

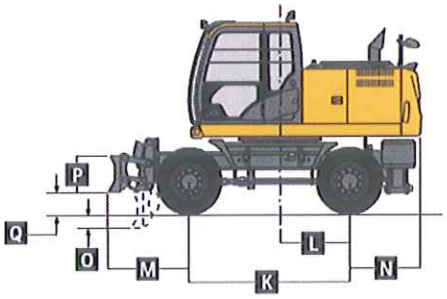
Machine Dimensions	230G W	
With standard gauge and 2.91-m (9 ft. 7 in.) arm; dimensions are provided for both the front and rear outrigger configuration, and for the front blade and rear outrigger configuration	*Monoblock Boom*	*2-Piece Boom*
A Overall Length	9.96 m (32 ft. 8 in.)	—
A¹ Overall Length	—	9.64 m (31 ft. 8 in.)
B Overall Height	3.19 m (10 ft. 6 in.)	—
B¹ Overall Height	—	3.32 m (10 ft. 11 in.)
C Rear-End Swing Radius	2.89 m (9 ft. 6 in.)	2.89 m (9 ft. 6 in.)
D Engine Cover Height	2.64 m (8 ft. 8 in.)	2.64 m (8 ft. 8 in.)
E Counterweight Clearance	1.25 m (4 ft. 1 in.)	1.25 m (4 ft. 1 in.)
F Overall Width of Upperstructure	2.73 m (8 ft. 11 in.)	2.73 m (8 ft. 11 in.)
G Overall Height of Cab	3.19 m (10 ft. 6 in.)	3.19 m (10 ft. 6 in.)
H Overall Width of Tires	2.75 m (9 ft. 0 in.)	2.75 m (9 ft. 0 in.)
J Minimum Ground Clearance	0.35 m (13.6 in.)	0.35 m (13.6 in.)
K Wheelbase	2.75 m (9 ft. 0 in.)	2.75 m (9 ft. 0 in.)
L Swing Center to Rear Axle	1.35 m (4 ft. 5 in.)	1.35 m (4 ft. 5 in.)
M Front Overhang		
Front Outrigger and Rear Outrigger	1.38 m (4 ft. 6 in.)	1.38 m (4 ft. 6 in.)
Front Blade and Rear Outrigger	1.34 m (4 ft. 5 in.)	1.34 m (4 ft. 5 in.)
N Rear Overhang	1.09 m (3 ft. 7 in.)	1.09 m (3 ft. 7 in.)
O Maximum Blader Lower	0.21 m (8.3 in.)	0.21 m (8.3 in.)
P Overall Height of Blade	0.60 m (23.6 in.)	0.60 m (23.6 in.)
Q Maximum Blade Raise	0.38 m (14.8 in.)	0.38 m (14.8 in.)
R Overall Width of Blade	2.73 m (8 ft. 11 in.)	2.73 m (8 ft. 11 in.)
S Overall Width with Outrigger Retracted	2.74 m (9 ft. 0 in.)	2.74 m (9 ft. 0 in.)
T Overall Width with Outrigger Extended	3.91 m (12 ft. 10 in.)	3.91 m (12 ft. 10 in.)
V Overall Height of Boom (traveling)	3.98 m (13 ft. 1 in.)	3.98 m (13 ft. 1 in.)
W Front Overhang (traveling)	3.49 m (11 ft. 5 in.)	3.49 m (11 ft. 5 in.)

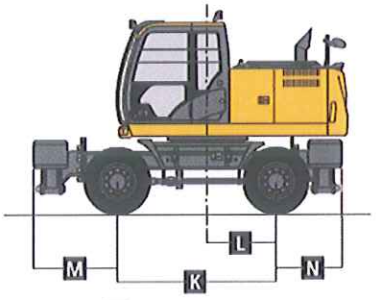


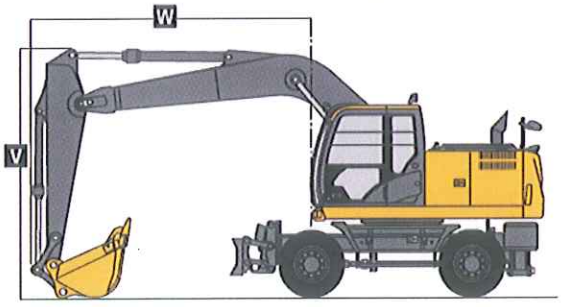


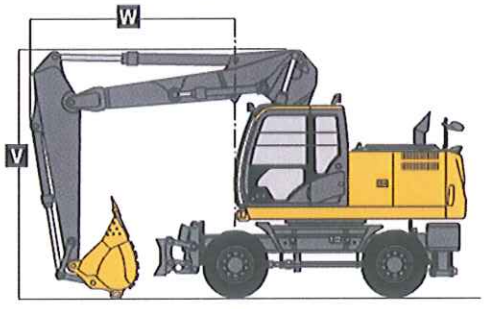












Lift Capacities — 230G W

Boldface type indicates hydraulically limited capacities; lightface type indicates stability-limited capacities, in kg (lb.). Ratings at bucket lift hook; machine equipped with 666-kg (1,468 lb.) bucket, 2.91-m (9 ft. 7 in.) arm, and standard counterweight; and situated on firm, level, uniform supporting surface. Figures do not exceed 87% of hydraulic capacity or 75% of weight needed to tip machine.

	HORIZONTAL DISTANCE FROM CENTERLINE OF ROTATION									
	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.)	
LOAD POINT HEIGHT	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
With monoblock boom, rear outriggers, and front blade down										
6.0 m (20 ft.)							5250 (11,490)	5250 (11,490)	4460 (8,700)	4460 (8,700)
4.5 m (15 ft.)					7340 (15,750)	7340 (15,750)	6080 (13,190)	6080 (13,190)	5490 (11,990)	4530 (9,720)
3.0 m (10 ft.)					10 010 (21,440)	10 010 (21,440)	7260 (15,690)	6310 (13,580)	6030 (13,100)	4390 (9,450)
1.5 m (5 ft.)					12 130 (26,120)	9500 (20,440)	8360 (18,070)	6040 (13,000)	6580 (14,180)	4260 (9,160)
Ground Line					12 910 (27,900)	9260 (19,890)	9020 (19,500)	5870 (12,620)	6490 (13,950)	4160 (8,960)
–1.5 m (–5 ft.)			7790 (17,710)	7790 (17,710)	12 610 (27,290)	9220 (19,800)	9040 (19,540)	5810 (12,490)	6460 (13,890)	4130 (8,900)
–3.0 m (–10 ft.)			13 470 (30,720)	13 470 (30,720)	11 360 (24,520)	9320 (20,020)	8230 (17,690)	5860 (12,610)		
–4.5 m (–15 ft.)					8620 (18,240)	8620 (18,240)				
With monoblock boom and 4 outriggers down										
6.0 m (20 ft.)							5250 (11,490)	5250 (11,490)	4460 (8,700)	4460 (8,700)
4.5 m (15 ft.)					7340 (15,750)	7340 (15,750)	6080 (13,190)	6080 (13,190)	5490 (11,990)	5290 (11,370)
3.0 m (10 ft.)					10 010 (21,440)	10 010 (21,440)	7260 (15,690)	7260 (15,690)	6030 (13,100)	5160 (11,090)
1.5 m (5 ft.)					12 130 (26,120)	11 440 (24,570)	8360 (18,070)	7140 (15,370)	6580 (14,270)	5020 (10,800)
Ground Line					12 910 (27,900)	11 180 (23,980)	9020 (19,500)	6960 (14,980)	6730 (14,470)	4920 (10,580)
–1.5 m (–5 ft.)			7790 (17,710)	7790 (17,710)	12 610 (27,290)	11 140 (23,890)	9040 (19,540)	6900 (14,840)	6700 (14,420)	4890 (10,530)
–3.0 m (–10 ft.)			13 470 (30,720)	13 470 (30,720)	11 360 (24,520)	11 250 (24,120)	8230 (17,690)	6950 (14,960)		
–4.5 m (–15 ft.)					8620 (18,240)	8620 (18,240)				
With 2-piece boom, rear outriggers, and front blade down										
7.5 m (25 ft.)							4340 (7,850)	4340 (7,850)		
6.0 m (20 ft.)							5560 (12,100)	5560 (12,100)		
4.5 m (15 ft.)					6660 (14,390)	6660 (14,390)	6330 (13,770)	6330 (13,770)	5180 (10,650)	4700 (10,060)
3.0 m (10 ft.)			11 090 (24,530)	11 090 (24,530)	9610 (20,660)	9610 (20,660)	7310 (15,840)	6690 (14,410)	6210 (13,540)	4690 (10,020)
1.5 m (5 ft.)			13 990 (30,920)	13 990 (30,920)	11 700 (25,220)	10 290 (22,130)	8320 (18,010)	6630 (14,290)	6660 (14,460)	4600 (9,840)
Ground Line	8310 (18,590)	8310 (18,590)	16 790 (36,730)	16 790 (36,730)	12 710 (27,490)	10 320 (22,180)	8980 (19 450)	6660 (14,340)	6820 (14,610)	4470 (9,570)
–1.5 m (–5 ft.)	13 890 (31,150)	13 890 (31,150)	20 290 (44,280)	20 290 (44,280)	12 880 (27,880)	10 570 (22,690)	9160 (19,830)	6490 (13,910)	6690 (14,150)	4340 (9,290)
–3.0 m (–10 ft.)	22 540 (51,050)	22 540 (51,050)	21 550 (46,640)	21 550 (46,640)	13 250 (28,770)	10 370 (22,180)	9010 (19,160)	6250 (13,400)		
–4.5 m (–15 ft.)	31 020 (69,820)	31 020 (69,820)	19 540 (41,120)	19 540 (41,120)						

Lift Capacities *(continued)* **230G W**

Boldface type indicates hydraulically limited capacities; lightface type indicates stability-limited capacities, in kg (lb.). Ratings at bucket lift hook; machine equipped with 666-kg (1,468 lb.) bucket, 2.91-m (9 ft. 7 in.) arm, and standard counterweight; and situated on firm, level, uniform supporting surface. Figures do not exceed 87% of hydraulic capacity or 75% of weight needed to tip machine.

	HORIZONTAL DISTANCE FROM CENTERLINE OF ROTATION									
	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.)	
LOAD POINT HEIGHT	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
With 2-piece boom and 4 outriggers down										
7.5 m (25 ft.)							4340 (7,850)	4340 (7,850)		
6.0 m (20 ft.)							5560 (12,100)	5560 (12,100)		
4.5 m (15 ft.)					6660 (14,390)	6660 (14,390)	6330 (13,770)	6330 (13,770)	5180 (10,650)	5180 (10,650)
3.0 m (10 ft.)			11 090 (24,530)	11 090 (24,530)	9610 (20,660)	9610 (20,660)	7310 (15,840)	7310 (15,840)	6210 (13,540)	5440 (11,640)
1.5 m (5 ft.)			13 990 (30,920)	13 990 (30,920)	11 700 (25,220)	11 700 (25,220)	8320 (18,010)	7600 (16,370)	6660 (14,460)	5360 (11,480)
Ground Line	8310 (18,590)	8310 (18,590)	16 790 (36,730)	16 790 (36,730)	12 710 (27,490)	11 930 (25,640)	8980 (19,450)	7640 (16,460)	6970 (15,050)	5240 (11,210)
–1.5 m (–5 ft.)	13 890 (31,150)	13 890 (31,150)	20 290 (44,280)	20 290 (44,280)	12 880 (27,880)	12 130 (26,080)	9160 (19,830)	7610 (16,300)	6810 (14,150)	5100 (10,930)
–3.0 m (–10 ft.)	22 540 (51,050)	22 540 (51,050)	21 550 (46,640)	21 550 (46,640)	13 250 (28,770)	12 370 (26,440)	9010 (19,160)	7370 (15,810)		
–4.5 m (–15 ft.)	31 020 (69,820)	31 020 (69,820)	19 540 (41,120)	19 540 (41,120)						

Buckets 230G W

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 TK-Series Bucket 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, 2.91 m (9 ft. 7 in.)		Bucket Tip Radius		Number of Teeth
	mm	in.	m^3	cu. yd.	kg	lb.	kN	lb.	kN	lb.	mm	in.	
General-Purpose													
High-Capacity	762	30	0.60	0.79	650	1,432	153.5	34,517	110.6	24,855	1473	58.00	4
	914	36	0.76	1.00	735	1,621	153.2	34,450	110.6	24,855	1473	58.00	5
	1067	42	0.93	1.22	812	1,790	153.2	34,450	110.6	24,855	1473	58.00	5
	1219	48	1.09	1.43	896	1,976	153.5	34,517	110.6	24,855	1473	58.00	6
Heavy-Duty	610	24	0.40	0.52	543	1,197	154.6	34,758	110.8	24,913	1463	57.61	4
	762	30	0.54	0.71	621	1,369	154.6	34,751	110.8	24,913	1463	57.61	4
	914	36	0.69	0.90	707	1,559	154.6	34,751	110.8	24,913	1463	57.61	5
	1067	42	0.83	1.09	785	1,731	154.6	34,751	110.8	24,913	1463	57.61	5
	1219	48	0.99	1.29	871	1,921	154.6	34,751	110.8	24,913	1463	57.61	6
Heavy-Duty													
High-Capacity	610	24	0.43	0.56	646	1,424	153.5	34,517	110.6	24,855	1473	58.00	4
	762	30	0.58	0.76	723	1,593	153.5	34,517	110.6	24,855	1473	58.00	4
	914	36	0.74	0.97	808	1,782	153.5	34,517	110.6	24,855	1473	58.00	5
	1067	42	0.91	1.19	885	1,951	153.5	34,517	110.6	24,855	1473	58.00	5
	1219	48	1.06	1.39	970	2,139	153.5	34,517	110.6	24,855	1473	58.00	6
Ditching	1524	60	0.87	1.14	577	1,271	214.0	48,102	122.2	27,463	1057	41.62	0
General-Purpose													
High-Capacity	1219	48	1.09	1.43	577	1,271	153.5	34,517	110.6	24,855	1473	57.99	6

Additional equipment

Key: ● Standard ▲ Optional or special

See your John Deere dealer for further information.

190G	230G	Engine
●	●	Auto-idle system
●	●	Automatic belt-tension device
●	●	Batteries (2 – 12 volt)
●	●	Coolant recovery tank
●	●	Dual-element dry-type air filter
●	●	Electronic engine control
●	●	Enclosed fan guard (conforms to SAE J1308)
●	●	Engine coolant to –37 deg. C (–34 deg. F)
●	●	Fuel filter with water separator
●	●	Full-flow oil filter
●	●	Turbocharger with charge-air cooler
●	●	500-hour engine-oil-change interval
●	●	Programmable auto-shutdown
		Hydraulic System
●	●	Reduced-drift valve for boom down, arm in
●	●	Auxiliary hydraulic valve section
●	●	Spring-applied, hydraulically released automatic swing brake
●	●	Brake valves for travel circuits
●	●	Individual control of outriggers
▲	▲	Auxiliary hydraulic lines
▲	▲	Auxiliary pilot and electric controls
●	●	Hydraulic filter restriction indicator
●	●	Low-flow/medium-pressure-assist hydraulics
		Undercarriage
●	●	Brakes, 4 wheel, maintenance free, wet disc
●	●	Creeper speed range
●	●	Front axle, oscillating, lockable
▲	▲	Front blade and rear outriggers (2)
▲	▲	Outriggers (4)
●	●	Parking brake
●		Dual traction-type tires, 10.00-20, 14PR with spacer
	●	Dual traction-type tires, 11.00-20, 16PR with spacer
●	●	Toolbox on left chassis

190G	230G	Upperstructure
●	●	Right- and left-hand mirrors
●	●	Vandal locks with ignition key: Cab door / Fuel cap / Service doors
		Front Attachments
●		5.5-m (18 ft. 0 in.) monoblock boom with 2.71-m (8 ft. 11 in.) arm
	●	5.68-m (18 ft. 8 in.) monoblock boom with 2.91-m (9 ft. 7 in.) arm
▲		Variable-geometry, 2-piece boom with 2.71-m (8 ft. 11 in.) arm
	▲	Variable-geometry, 2-piece boom with 2.91-m (9 ft. 7 in.) arm
●	●	Centralized lubrication system
●	●	Dirt seals on all bucket pins
▲	▲	Buckets: Ditching / General purpose / General-purpose high capacity / Heavy duty / Heavy-duty high capacity / Side cutters and teeth
		Operator's Station
●	●	Adjustable independent-control positions (levers-to-seat, seat-to-pedals)
●	●	AM/FM radio
●	●	Auto climate control/air conditioner with heater and pressurizer
●	●	Built-in Operator's Manual storage compartment and manual
●	●	Cell-phone power outlet, 12 volt
●	●	Coat hook
●	●	Deluxe suspension cloth seat with 100-mm (4 in.) adjustable armrests
●	●	Floor mat
●	●	Front windshield wiper with intermittent speeds
●	●	Gauges (illuminated): Engine coolant / Fuel level / Speedometer
●	●	Horn, electric
●	●	Hour meter, electric
●	●	Hydraulic shutoff lever, all controls
●	●	Hydraulic warm-up control
●	●	Interior light
●	●	Large cup holder
●	●	Machine Information Center (MIC)
●	●	Mode selectors (illuminated): Power modes (3) / Work mode (1)
●	●	High/low travel mode with creeper range

190G	230G	Operator's Station *(continued)*
●	●	Multifunction, color LCD monitor with: Diagnostic capability / Multiple-language capabilities / Maintenance tracking / Clock / System monitoring with alarm features: Auto-idle indicator, Auto-shutdown indicator, brake pressure audible alarm, engine air cleaner restriction indicator light, engine check, engine coolant temperature indicator light with audible alarm, engine oil pressure indicator light with audible alarm, low-alternator-charge indicator light, low-fuel indicator light, fault-code alert indicator, fuel-rate display, water-in-fuel light, wiper-mode indicator, work-lights-on indicator, and work-mode indicator
●	●	Motion alarm with cancel switch (conforms to SAE J994)
●	●	Power-boost switch on right control lever
●	●	SAE 2-lever control pattern
●	●	Seat belt, 51 mm (2 in.), retractable
▲	▲	Seat belt, 76 mm (3 in.), non-retractable
●	●	Tinted glass
●	●	Transparent tinted overhead hatch
●	●	Tilting steering column
●	●	Sun visor
●	●	Windshield washer/wiper with constant and intermittent speeds
▲	▲	Window vandal-protection covers
		Electrical
●	●	50-amp alternator
●	●	Blade-type multi-fused circuits
●	●	Positive-terminal battery covers
●	●	JDLink™ Ultimate wireless communication system (available in specific countries; see your dealer for details)
		Lights
●	●	Headlights (2)
●	●	Work lights, top of cab (2), rear of cab (1), and boom (1)
●	●	Turn signals / Hazard lights
●	●	Brake lights
●	●	Side marker lights

Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan at test conditions specified per ISO 9249. No derating is required up to 3050 m (10,000 ft.) altitude. 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 units with full fuel tanks and 79 kg (175 lb.) operators, a 190G W unit with 0.7 m^3 (0.92 cu. yd.), 900 mm (35 in.) bucket and 2.71 m (8 ft. 11 in.) arm, and a 230G W unit with 0.8 m^3 (1.04 cu. yd.), 900 mm (35 in.) bucket and 2.91 m (9 ft. 7 in.) arm.

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