

G-SERIES
EXCAVATORS



JOHN DEERE

135G / 245G LC



CRUNCH
IT OUT



SIZABLE SOLUTION



REDUCED
TAIL SWING

+



PRODUCTIVE

TIONS.



URBAN LEGENDS.

Whether your work is urban renewal, street repair, or underground utilities, the John Deere 135G and 245G LC are built to deliver legendary performance. Reduced-tail-swing design, powerful performance, and ease of operation are just a few of the details that have earned them authentic reputations in the industry and on the jobsite.

NOT JUST TALK PUT THEM INTO ACTION.

Forget what you might have heard about reduced-tail-swing excavators. These machines are packed with production-boosting advantages that'll have you talking them up in a big way.

Damage control

Maneuverable reduced-tail-swing models fit in on tight or crowded areas, easing the risk of damage to surroundings or machines. Optional 20-inch rubber crawler pad on the 135G helps reduce impact to concrete or asphalt when working on street repairs or in housing developments.

Performance plus

Powerwise Plus™ technology delivers fuel-efficient power when you need it.

It's automatic

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

Do more with one

Optional backfill blade on the 135G enhances machine stability and eliminates the need for extra equipment.

Go with the flow

Unique three-pump hydraulic system in the 245G LC provides even more flow. The third pump supplies additional hydraulic oil to the swing circuit as demanded to maximize productivity without depleting oil reserves, slowing other functions, or sacrificing fuel economy.



THREE-PUMP HYDRAULIC SYSTEM

ON THE 245G LC



STANDOUT FEATURE

DEERE



PRESS POWER
BOOST FOR
**MORE
MUSCLE**



SMOOTH OPERATORS

EASY STREET STARTS HERE.

Why sweat it? Our reduced-tail-swing excavators with intelligent features like the Powerwise Plus™ hydraulic-management system have what you need to get the job done. Whether up against a wall or between a rock and a hard place, our 135G and 245G LC close-quarter specialists make it look pretty easy.

Intuitive technology

John Deere Powerwise Plus technology delivers on-demand power. Precise pump flow when the pilot controls are metered provides reliable, fuel-efficient machine performance.

Added leverage

When the going gets tough, simply press the power-boost button on the right-hand control and muscle through. It's standard on both excavators.

Speed things up

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.

Reliable precision

For work that requires extra finesse, short-throw low-effort controls, masterful metering, and smooth multifunction operation deliver dependable precision for tasks like utilities work.

COMFORT CONTROL

PUT PRODUCTIVITY ON SPEED DIAL.

In this home away from home, it's pretty easy for operators to "dial things up." The 135G and 245G LC's refined monitor employs a rotary control that makes it quick and easy to tap into an abundance of performance- and convenience-boosting functions and features. Operators will also appreciate the spacious and well-appointed cab, expansive all-round visibility including a standard rearview camera, and numerous other amenities designed to help them do their best work.

We've got your back

Sculpted mechanical-suspension high-back seat, standard in the 135G, slides together or independent of the joystick console, so it won't cramp an operator's style. Air-suspension heated seat, standard in the 245G LC, keeps operators comfortably supported and ready to be productive.

In full command

Ergonomically correct short-throw pilot levers provide smooth, predictable fingertip control with less movement or effort. Sliding switch allows proportional speed control, for effortless fingertip command.

See clearly now

Standard boom/frame lights and field-installed cab/boom-mounted lights provide illumination to extend your workday beyond normal daylight hours when needed.

Slideshow

Sliding switch allows proportional speed control for standard auxiliary hydraulics, maximizing versatility and machine utilization.

Information station

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.

Cool customer

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



**TURN-AND-TAP
DATA ACCESS**







PROVEN PERFORMERS

Manufactured with the same durable design and quality components you've come to expect from the rest of our wide-ranging excavator lineup, the John Deere 135G and 245G LC are some pretty tough customers.



In it for the long haul

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

Let's hear it for the fans

Highly efficient heavy-duty cooling system keeps things cool, even in tough environments or high altitudes. Cool-on-demand suction-type fan helps reduce material buildup and maintenance.

Solid support

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

Stress management

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.

FT4 engine technology

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 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). The FT4/Stage IV engine requires no diesel particulate filter (DPF).

SIMPLIFIED SERVICE

UNCOVER THE ADVANTAGES.

Within easy reach

Vertical spin-on fuel and engine oil filters are positioned for convenient and streamlined maintenance. Service points are grouped to ease routine checks.

Stay on the job

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

Power saver

Battery-disconnect switch, easily accessible in the rear door behind the cab, helps extend battery life.

Get a grip

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



Get valuable insight with

PRECISION CONSTRUCTION

This suite of construction technology delivers **Productivity Solutions** to help you get more done, more efficiently.

In-base JDLink™ connectivity provides machine location, utilization data, and alerts to help you maximize productivity and efficiency. Other productivity solutions include grade-management options for multiple machine forms and payload weighing for wheel loaders and articulated dump trucks.

To maximize uptime and lower costs, JDLink also enables **John Deere Connected Support™**. John Deere's centralized Machine Health Monitoring Center analyzes data from thousands of connected machines, identifies trends, and develops recommended actions, called Expert Alerts, to help prevent downtime. Dealers use Expert Alerts to proactively address conditions that may otherwise likely lead to downtime. Your dealer can also monitor machine health and leverage remote diagnostics and programming capability to further diagnose problems and even update machine software without a time-consuming trip to the jobsite.





135G SPECIFICATIONS

Engine		135G	
		Base engine for use in the U.S., U.S. Territories, and Canada	
Manufacturer and Model		Isuzu 4JJ1	
Non-Road Emission Standard		EPA Final Tier 4/EU Stage IV	
Net Rated Power (ISO 9249)		75 kW (101 hp) at 2,000 rpm	
Cylinders		4	
Displacement		3.0 L (182 cu. in.)	
Off-Level Capacity		70% (35 deg.)	
Aspiration		Turbocharged, air-to-air charge-air cooler	
Cooling			
Direct-drive suction-type fan			
Powertrain			
2-speed propel with automatic shift			
Maximum Travel Speed			
Low		3.4 km/h (2.1 mph)	
High		5.5 km/h (3.4 mph)	
Drawbar Pull		11 217 kg (24,729 lb.)	
Hydraulics			
Open center, pilot operated			
Main Pumps		2 variable-displacement axial-piston pumps	
Maximum Rated Flow		105 L/m (28 gpm) x 2	
Pilot Pump		1 gear	
Maximum Rated Flow		32.9 L/m (8.7 gpm)	
Pressure Setting		3930 kPa (570 psi)	
System Operating Pressure			
Circuits			
Implement		34 300 kPa (4,975 psi)	
Travel		34 800 kPa (5,047 psi)	
Swing		32 300 kPa (4,685 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
Boom (2)	105 mm (4.13 in.)	70 mm (2.76 in.)	941 mm (37.05 in.)
Arm (1)	115 mm (4.53 in.)	80 mm (3.15 in.)	1135 mm (44.69 in.)
Bucket (1)	100 mm (3.94 in.)	70 mm (2.76 in.)	875 mm (34.45 in.)
Electrical			
Number of Batteries (12 volt)		2	
Battery Capacity		300 CCA	
Alternator Rating		50 amp	
Work Lights		2 halogen (1 mounted on boom, 1 on frame)	
Undercarriage			
Rollers (per side)			
Carrier		1	
Track		7	
Shoes (per side)		44	
Track			
Adjustment		Hydraulic	
Guides		Front idler	
Chain		Sealed and lubricated	
Ground Pressure			
	Without Blade	With Blade	
Rubber Crawler Pad, 500 mm (20 in.)	43 kPa (6.24 psi)	46 kPa (6.67 psi)	
Triple Semi-Grouser Shoes			
600 mm (24 in.)	37 kPa (5.37 psi)	39 kPa (5.66 psi)	
700 mm (28 in.)	32 kPa (4.64 psi)	34 kPa (4.93 psi)	

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135G SPECIFICATIONS



Swing Mechanism	135G
Speed	13.3 rpm
Torque	34 000 Nm (25,000 lb.-ft.)

Serviceability

Refill Capacities

Fuel Tank	220 L (58 gal.)
Cooling System	21 L (22.2 qt.)
Engine Oil With Filter	17 L (18 qt.)
Hydraulic Tank	60 L (15.9 gal.)
Hydraulic System	155 L (41 gal.)
Gearbox	
Swing	3.2 L (3.4 qt.)
Propel (each)	4 L (4.2 qt.)
Diesel Exhaust Fluid (DEF) Tank	12 L (12.7 qt.)

Operating Weights

With full fuel tank; 79-kg (175 lb.) operator; 914-mm (36 in.), 0.5-m³ (0.65 cu. yd.), 414-kg (913 lb.) general-purpose bucket; 3.01-m (9 ft. 11 in.) arm; and 3650-kg (8,047 lb.) counterweight

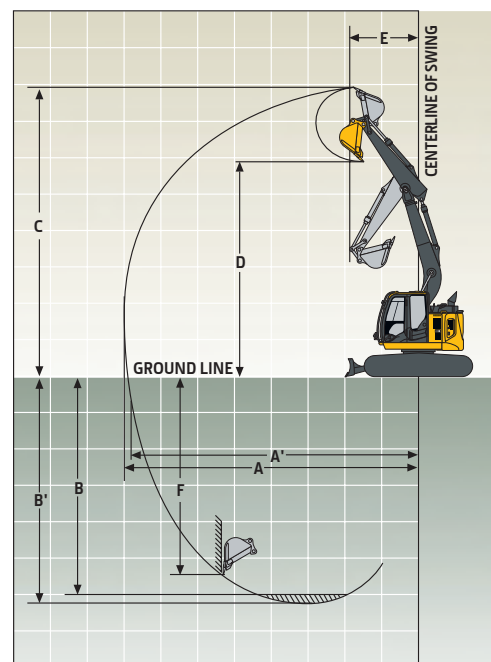
Operating Weights	<i>Without Blade</i>	<i>With Blade</i>
Rubber Crawler Pad, 500 mm (20 in.)	13 900 kg (30,620 lb.)	14 900 kg (32,820 lb.)
Triple Semi-Grouser Shoes		
600 mm (24 in.)	14 100 kg (31,060 lb.)	15 100 kg (33,260 lb.)
700 mm (28 in.)	14 300 kg (31,500 lb.)	15 400 kg (33,920 lb.)

Optional Components

Undercarriage		
Rubber Crawler Pad, 500 mm (20 in.)	4210 kg (9,270 lb.)	5247 kg (11,560 lb.)
Triple Semi-Grouser Shoes		
600 mm (24 in.)	4436 kg (9,770 lb.)	5473 kg (12,060 lb.)
700 mm (28 in.)	4628 kg (10,190 lb.)	5701 kg (12,560 lb.)
1-Piece Boom (with arm cylinder)	995 kg (2,190 lb.)	
Arm With Bucket Cylinder and Linkage		
2.52 m (8 ft. 3 in.)	594 kg (1,310 lb.)	
3.01 m (9 ft. 11 in.)	663 kg (1,460 lb.)	
Boom-Lift Cylinders (2), Total Weight	232 kg (510 lb.)	

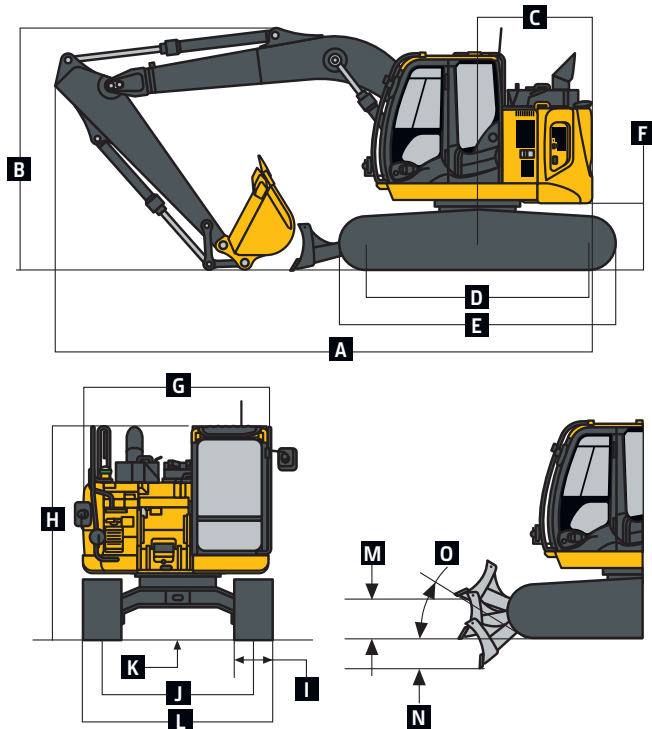
Operating Dimensions

Arm Length	<i>2.52 m (8 ft. 3 in.)</i>	<i>3.01 m (9 ft. 11 in.)</i>
Arm Digging Force		
SAE	67 kN (15,060 lb.)	60 kN (13,490 lb.)
ISO	69 kN (15,510 lb.)	61 kN (13,710 lb.)
Bucket Digging Force		
SAE	91 kN (20,460 lb.)	91 kN (20,460 lb.)
ISO	104 kN (23,380 lb.)	104 kN (23,380 lb.)
A Maximum Reach	8.39 m (27 ft. 6 in.)	8.86 m (29 ft. 2 in.)
A' Maximum Reach at Ground Level	8.24 m (26 ft. 8 in.)	8.72 m (28 ft. 4 in.)
B Maximum Digging Depth	5.49 m (18 ft. 4 in.)	5.98 m (20 ft. 0 in.)
B' Maximum Digging Depth at 2.44-m (8 ft. 0 in.) Flat Bottom	5.27 m (17 ft. 6 in.)	5.79 m (19 ft. 2 in.)
C Maximum Cutting Height	9.29 m (30 ft. 10 in.)	9.69 m (31 ft. 8 in.)
D Maximum Dumping Height	6.83 m (22 ft. 6 in.)	7.22 m (23 ft. 4 in.)
E Minimum Swing Radius	2.11 m (6 ft. 8 in.)	2.45 m (8 ft. 4 in.)
F Maximum Vertical Wall	4.73 m (15 ft. 10 in.)	5.19 m (16 ft. 8 in.)



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Machine Dimensions		135G
Arm Length		2.52 m (8 ft. 3 in.) 3.01 m (9 ft. 11 in.)
A	Overall Length	7.37 m (24 ft. 2 in.) 7.39 m (24 ft. 3 in.)
B	Overall Height	2.79 m (9 ft. 2 in.) 2.78 m (9 ft. 1 in.)
C	Rear-End Length/Swing Radius	1.49 m (4 ft. 11 in.)
D	Distance Between Idler/Sprocket Centerline	2.88 m (9 ft. 5 in.)
E	Undercarriage Length	3.58 m (11 ft. 9 in.)
F	Counterweight Clearance	840 mm (33 in.)
G	Upperstructure Width	2.48 m (8 ft. 2 in.)
H	Cab Height	2.87 m (9 ft. 5 in.)
I	Track Width	
	With Rubber Crawler Pad	500 mm (20 in.)
	With Triple-Semi Grouser Shoes	600 mm (24 in.) / 700 mm (28 in.)
J	Gauge Width	1.99 m (6 ft. 6 in.)
K	Ground Clearance	410 mm (16 in.)
L	Overall Width	
	Rubber Crawler Pad, 500 mm (20 in.)	2.49 m (8 ft. 2 in.)
	Triple Semi-Grouser Shoes	
	600 mm (24 in.)	2.59 m (8 ft. 6 in.)
	700 mm (28 in.)	2.69 m (8 ft. 10 in.)
M	Blade Lift Height	460 mm (18 in.)
N	Blade Cut Below Grade	540 mm (21 in.)
O	Blade Lift Angle	28.5 deg.
	Blade	
	Length	2.51 m (8 ft. 3 in.)
	Height	460 mm (18 in.)
	Width	
	Rubber Crawler Pad, 500 mm (20 in.)	2490 mm (8 ft. 2 in.)
	Triple Semi-Grouser Shoes	
	600 mm (24 in.)	2490 mm (8 ft. 2 in.)
	700 mm (28 in.)	2690 mm (8 ft. 10 in.)



Lift Capacities

Boldface type indicates hydraulically limited capacity; lightface type indicates stability-limited capacities, in kg (lb.). All lift capacities are based on ISO 10567 (with power boost). Machine equipped with 414-kg (913 lb.) bucket and standard counterweight; and situated on firm, level, 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.

		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
<i>With 2.52-m (8 ft. 3 in.) arm and 600-mm (24 in.) triple semi-grouser shoes, blade on ground</i>											
4.5 m (15 ft.)				3570	3570	3560	3490	3180	2090		
				(7,830)	(7,830)	(7,750)	(7,500)	(6,490)	(4,480)		
3.0 m (10 ft.)				6260	6260	4370	3290	3620	2020		
				(13,390)	(13,390)	(9,470)	(7,090)	(7,890)	(4,350)		
1.5 m (5 ft.)				6430	5730	5330	3060	4000	1930		
				(15,850)	(12,330)	(11,520)	(6,580)	(8,670)	(4,140)		
Ground Line				5770	5450	5870	2890	4220	1850		
				(13,410)	(11,710)	(12,720)	(6,220)	(9,130)	(3,970)		
-1.5 m (-5 ft.)		4360	4360	8740	5430	5750	2830	4010	1820		
		(9,790)	(9,790)	(18,950)	(11,660)	(12,430)	(6,090)	(8,620)	(3,920)		
-3.0 m (-10 ft.)		8240	8240	7080	5540	4750	2880				
		(18,630)	(18,630)	(15,240)	(11,900)	(10,150)	(6,200)				

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Lift Capacities (continued)

135G

Boldface type indicates hydraulically limited capacity; lightface type indicates stability-limited capacities, in kg (lb.). All lift capacities are based on ISO 10567 (with power boost). Machine equipped with 414-kg (913 lb.) bucket and standard counterweight; and situated on firm, level, 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.

HORIZONTAL DISTANCE FROM CENTERLINE OF ROTATION										
LOAD POINT HEIGHT	1.5 m (5 ft.)		3.0 m (10 ft.)		4.5 m (15 ft.)		6.0 m (20 ft.)		7.5 m (25 ft.)	
	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
<i>With 3.01-m (9 ft. 11 in.) arm and 500-mm (20 in.) rubber crawler pad, blade on ground</i>										
4.5 m (15 ft.)					3080 (6,710)	3080 (6,710)	2990 (6,410)	2160 (4,620)		
3.0 m (10 ft.)			4910 (10,240)	4910 (10,240)	3920 (8,490)	3390 (7,310)	3330 (7,260)	2070 (4,450)		
1.5 m (5 ft.)			8050 (17,310)	5950 (12,820)	4970 (10,750)	3130 (6,740)	3780 (8,210)	1960 (4,210)	2170 (3,700)	1310 (2,790)
Ground Line			6270 (14,570)	5530 (11,870)	5700 (12,340)	2930 (6,300)	4110 (8,910)	1860 (4,000)		
-1.5 m (-5 ft.)	3780 (8,490)	3780 (8,490)	8260 (18,970)	5430 (11,650)	5810 (12,560)	2830 (6,090)	4100 (8,850)	1810 (3,890)		
-3.0 m (-10 ft.)	6840 (15,430)	6840 (15,430)	7780 (16,770)	5550 (11,800)	5140 (11,050)	2840 (6,120)	3340	1840		
-4.5 m (-15 ft.)			5030 (10,500)	5030 (10,500)	2900	2900				
<i>With 3.01-m (9 ft. 11 in.) arm and 600-mm (24 in.) triple semi-grouser shoes, blade on ground</i>										
4.5 m (15 ft.)					3080 (6,710)	3080 (6,710)	2990 (6,410)	2120 (4,540)		
3.0 m (10 ft.)			4910 (10,240)	4910 (10,240)	3920 (8,490)	3340 (7,200)	3330 (7,260)	2040 (4,370)		
1.5 m (5 ft.)			8050 (17,310)	5870 (12,630)	4970 (10,750)	3080 (6,630)	3780 (8,210)	1920 (4,130)	2170 (3,700)	1280 (2,740)
Ground Line			6270 (14,570)	5440 (11,690)	5700 (12,340)	2880 (6,190)	4110 (8,910)	1830 (3,920)		
-1.5 m (-5 ft.)	3780 (8,490)	3780 (8,490)	8260 (18,970)	5340 (11,470)	5810 (12,560)	2780 (5,980)	4100 (8,850)	1770 (3,820)		
-3.0 m (-10 ft.)	6840 (15,430)	6840 (15,430)	7780 (16,770)	5410 (11,610)	5140 (11,050)	2790 (6,010)	3340	1810		
-4.5 m (-15 ft.)			5030 (10,500)	5030 (10,500)	2900	2900				
<i>With 3.01-m (9 ft. 11 in.) arm and 700-mm (28 in.) triple semi-grouser shoes, blade on ground</i>										
4.5 m (15 ft.)					3080 (6,710)	3080 (6,710)	2990 (6,410)	2150 (4,610)		
3.0 m (10 ft.)			4910 (10,240)	4910 (10,240)	3920 (8,490)	3390 (7,300)	3330 (7,260)	2070 (4,440)		
1.5 m (5 ft.)			8050 (17,310)	5950 (12,800)	4970 (10,750)	3130 (6,730)	3780 (8,210)	1960 (4,200)	2170 (3,700)	1300 (2,790)
Ground Line			6270 (14,570)	5520 (11,860)	5700 (12,340)	2920 (6,290)	4110 (8,910)	1860 (3,990)		
-1.5 m (-5 ft.)	3780 (8,490)	3780 (8,490)	8260 (18,970)	5420 (11,640)	5810 (12,560)	2830 (6,080)	4100 (8,850)	1810 (3,880)		
-3.0 m (-10 ft.)	6840 (15,430)	6840 (15,430)	7780 (16,770)	5490 (11,780)	5140 (11,050)	2840 (6,110)	3340	1840		
-4.5 m (-15 ft.)			5030 (10,500)	5030 (10,500)	2900	2900				

Buckets **135G**

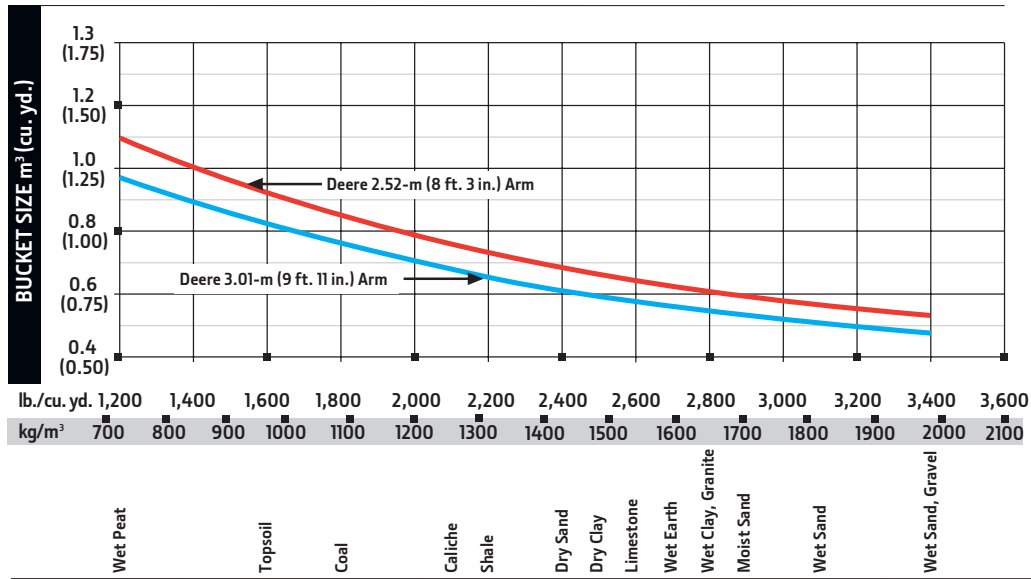
A full line of buckets is offered to meet a wide variety of applications. Digging forces are with power boost. Buckets are equipped with John Deere TK-Series Bucket Teeth standard. Replaceable cutting edges and a variety of teeth are available through John Deere Parts. Optional side cutters add 150 mm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

Bucket Type	Bucket Width		Bucket Capacity		Bucket Weight	
	mm	in.	m ³	cu. yd.	kg	lb.
Heavy Duty	610	24	0.36	0.47	359	791
	762	30	0.49	0.64	397	875
	914	36	0.62	0.81	448	987
Ditching	1067	42	0.76	0.99	484	1,065
	1524	60	0.63	0.83	457	1,007

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Bucket Selection Guide*

135G



* 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.



245G LC SPECIFICATIONS

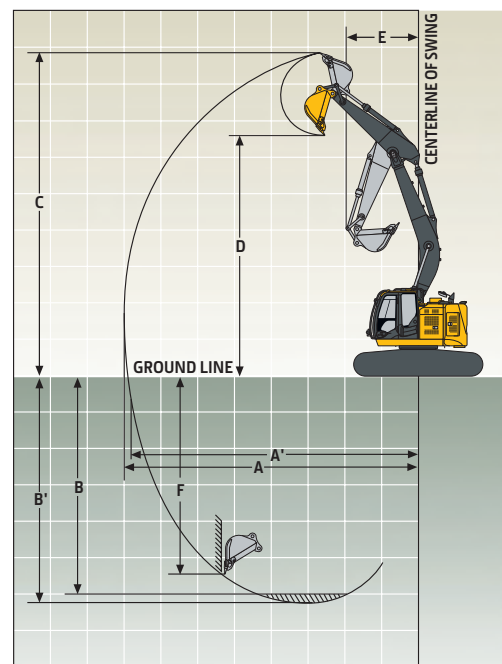
Engine	245G LC		
	<i>Base engine for use in the U.S., U.S. Territories, and Canada</i>		
Manufacturer and Model	Isuzu 4HK1		
Non-Road Emission Standard	EPA Final Tier 4/EU Stage IV		
Net Rated Power (ISO 9249)	119 kW (159 hp) at 2,000 rpm		
Cylinders	4		
Displacement	5.2 L (317 cu. in.)		
Off-Level Capacity	70% (35 deg.)		
Aspiration	Turbocharged and charged air cooled		
Cooling			
	Direct-drive suction-type fan		
Powertrain			
	2-speed propel with automatic shift		
Maximum Travel Speed			
Low	3.5 km/h (2.2 mph)		
High	5.5 km/h (3.4 mph)		
Drawbar Pull	20 702 kg (45,640 lb.)		
Hydraulics			
	Open center, pilot operated		
Main Pumps	3 variable-displacement axial-piston pumps		
Maximum Rated Flow	212 x 2 + 189 L/m (56 x 2 + 50 gpm)		
Pilot Pump	1 gear		
Maximum Rated Flow	30 L/m (7.9 gpm)		
Pressure Setting	3999 kPa (580 psi)		
System Operating Pressure			
Circuits			
Implement (arm and bucket relief)	34 300 kPa (4,970 psi)		
Travel	35 500 kPa (5,150 psi)		
Swing	32 300 kPa (4,680 psi)		
Power Boost	38 000 kPa (5,510 psi)		
Controls	Pilot levers, short stroke, low-effort hydraulic pilot controls with shutoff lever		
Cylinders			
	<i>Bore</i>	<i>Rod Diameter</i>	<i>Stroke</i>
Boom (2)	120 mm (4.72 in.)	85 mm (3.35 in.)	1330 mm (52.36 in.)
Arm (1)	135 mm (5.31 in.)	95 mm (3.74 in.)	1475 mm (58.07 in.)
Bucket (1)	115 mm (4.53 in.)	80 mm (3.15 in.)	1060 mm (41.73 in.)
Electrical			
Number of Batteries (12 volt)	2		
Battery Capacity	651 CCA		
Alternator Rating	50 amp		
Work Lights	2 halogen (1 mounted on boom, 1 on frame)		
Undercarriage			
Rollers (each side)			
Carrier	2		
Track	8		
Shoes, Triple Semi-Grousers (each side)	49		
Track			
Adjustment	Hydraulic		
Guides	Center		
Chain	Sealed and lubricated		
Ground Pressure			
Triple Semi-Grouser Shoes			
600 mm (24 in.)	51 kPa (7.40 psi)		
700 mm (28 in.)	45 kPa (6.53 psi)		
800 mm (32 in.)	40 kPa (5.80 psi)		

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245G LC SPECIFICATIONS



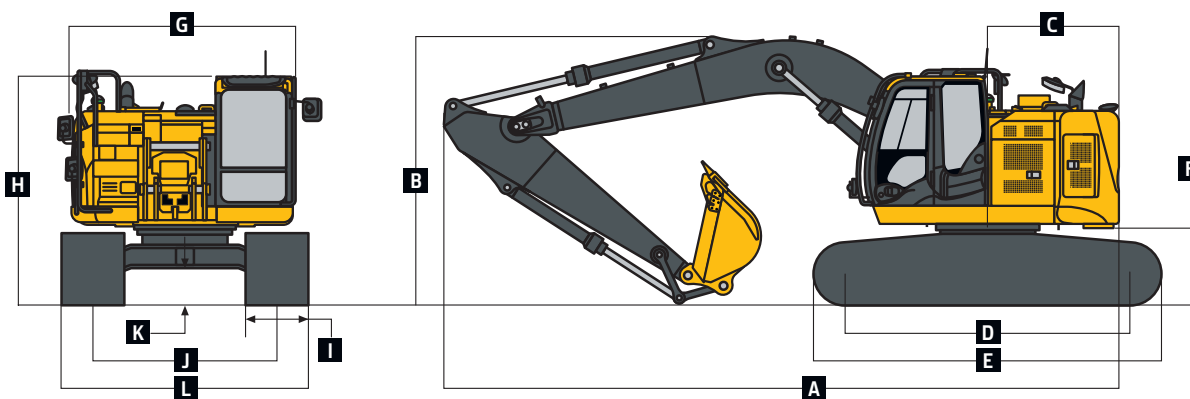
Swing Mechanism		245G LC
Speed		11.8 rpm
Torque		68 000 Nm (50,000 lb.-ft.)
Serviceability		
Refill Capacities		
Fuel Tank		380 L (100 gal.)
Cooling System		28 L (29.6 qt.)
Engine Oil With Filter		23 L (24.3 qt.)
Swing Mechanism		6.2 L (6.6 qt.)
Travel Device		6.8 L (7.2 qt.)
Hydraulic System		240 L (63 gal.)
Hydraulic Tank		130 L (34.3 gal.)
Diesel Exhaust Fluid (DEF) Tank		16 L (16.9 qt.)
Operating Weights		
With full fuel tank; 79-kg (175 lb.) operator; 1219-mm (48 in.), 1.09-m ³ (1.43 cu. yd.), 871-kg (1,921 lb.) heavy-duty bucket; 2.91-m (9 ft. 7 in.) arm; and 7280-kg (16,050 lb.) counterweight		
Operating Weight With Triple Semi-Grouser Shoes		
700 mm (28 in.)		25 500 kg (56,170 lb.)
800 mm (32 in.)		25 800 kg (56,830 lb.)
Optional Components		
Undercarriage With Triple Semi-Grouser Shoes		
700 mm (28 in.)		8002 kg (17,630 lb.)
800 mm (32 in.)		8278 kg (18,230 lb.)
1-Piece Boom (with arm cylinder)		1760 kg (3,880 lb.)
Arm With Bucket Cylinder and Linkage		
2.42 m (7 ft. 11 in.)		868 kg (1,910 lb.)
2.91 m (9 ft. 7 in.)		918 kg (2,020 lb.)
Boom-Lift Cylinders (2), Total Weight		340 kg (750 lb.)
Operating Dimensions		
Arm Length		2.91 m (9 ft. 7 in.)
Arm Digging Force		
SAE		110 kN (24,740 lb.)
ISO		114 kN (25,630 lb.)
Bucket Digging Force		
SAE		141 kN (31,700 lb.)
ISO		158 kN (35,520 lb.)
A	Maximum Reach	10.11 m (33 ft. 4 in.)
A ¹	Maximum Reach at Ground Level	9.90 m (32 ft. 6 in.)
B	Maximum Digging Depth	6.62 m (21 ft. 8 in.)
B ¹	Maximum Digging Depth at 2.44-m (8 ft. 0 in.) Flat Bottom	6.41 m (20 ft. 10 in.)
C	Maximum Cutting Height	11.23 m (36 ft. 10 in.)
D	Maximum Dumping Height	8.29 m (27 ft. 6 in.)
E	Minimum Swing Radius	2.38 m (7 ft. 6 in.)
F	Maximum Vertical Wall	5.81 m (19 ft. 1 in.)



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245G LC

Machine Dimensions		245G LC
Arm Length		2.91 m (9 ft. 7 in.)
A	Overall Length	9.11 m (29 ft. 11 in.)
B	Overall Height	2.98 m (9 ft. 9 in.)
C	Rear-End Length/Swing Radius	1.68 m (5 ft. 6 in.)
D	Distance Between Idler/Sprocket Centerline	3.66 m (12 ft. 0 in.)
E	Undercarriage Length	4.46 m (14 ft. 8 in.)
F	Counterweight Clearance	980 mm (3 ft. 3 in.)
G	Upperstructure Width	2.97 m (9 ft. 9 in.)
H	Cab Height	3.03 m (9 ft. 11 in.)
I	Track Width With Triple Semi-Grouser Shoes	700 mm (28 in.) / 800 mm (32 in.)
J	Gauge Width	2.39 m (7 ft. 10 in.)
K	Ground Clearance	450 mm (18 in.)
L	Overall Width With Triple Semi-Grouser Shoes	
	700 mm (28 in.)	3.09 m (10 ft. 2 in.)
	800 mm (32 in.)	3.19 m (10 ft. 6 in.)



Lift Capacities

Boldface type indicates hydraulically limited capacity; lightface type indicates stability-limited capacities, in kg (lb.). All lift capacities are based on ISO 10567 (with power boost). Machine equipped with 666-kg (1,468 lb.) bucket and standard counterweight; and situated on firm, level, 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.

HORIZONTAL DISTANCE FROM CENTERLINE OF ROTATION

LOAD POINT HEIGHT	1.5 m (5 ft.)		3.0 m (10 ft.)		4.5 m (15 ft.)		6.0 m (20 ft.)		7.5 m (25 ft.)	
	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
<i>With 2.91-m (9 ft. 7 in.) arm and 700-mm (28 in.) triple semi-grouser shoes</i>										
7.5 m (20 ft.)					4600 (10,200)	4600 (10,200)	4750 (10,300)	4750 (10,300)		
6.0 m (20 ft.)					5150 (11,200)	5150 (11,200)	4850 (10,600)	4850 (10,600)	3950	3300
4.5 m (15 ft.)			9400 (19,900)	9400 (19,900)	6650 (14,300)	6650 (14,300)	5500 (11,900)	4800 (10,350)	4900 (10,750)	3250 (7,000)
3.0 m (10 ft.)					8700 (18,700)	7150 (15,400)	6400 (13,850)	4550 (9,800)	5300 (11,500)	3150 (6,750)
1.5 m (5 ft.)					10 300 (22,250)	6650 (14,300)	7250 (15,650)	4300 (9,250)	5200 (11,250)	3050 (6,500)
Ground Line			3950 (9,150)	3950 (9,150)	10 850 (23,500)	6400 (13,800)	7300 (15,650)	4150 (8,950)	5150 (11,050)	2950 (6,300)
-1.5 m (-5 ft.)	5350 (11,950)	5350 (11,950)	8400 (19,100)	8400 (19,100)	10 450 (22,700)	6350 (13,700)	7200 (15,500)	4100 (8,800)	5100 (11,000)	2900 (6,300)
-3.0 m (-10 ft.)	9750 (21,900)	9750 (21,900)	13 050 (28,250)	13 000 (27,850)	9250 (19,950)	6450 (13,900)	6700 (14,350)	4150 (8,900)		
-4.5 m (-15 ft.)			9250 (19,650)	9250 (19,650)	6650 (13,950)	6650 (13,950)				

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Lift Capacities (continued)

245G LC

Boldface type indicates hydraulically limited capacity; lightface type indicates stability-limited capacities, in kg (lb.). All lift capacities are based on ISO 10567 (with power boost). Machine equipped with 666-kg (1,468 lb.) bucket and standard counterweight; and situated on firm, level, 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.

HORIZONTAL DISTANCE FROM CENTERLINE OF ROTATION

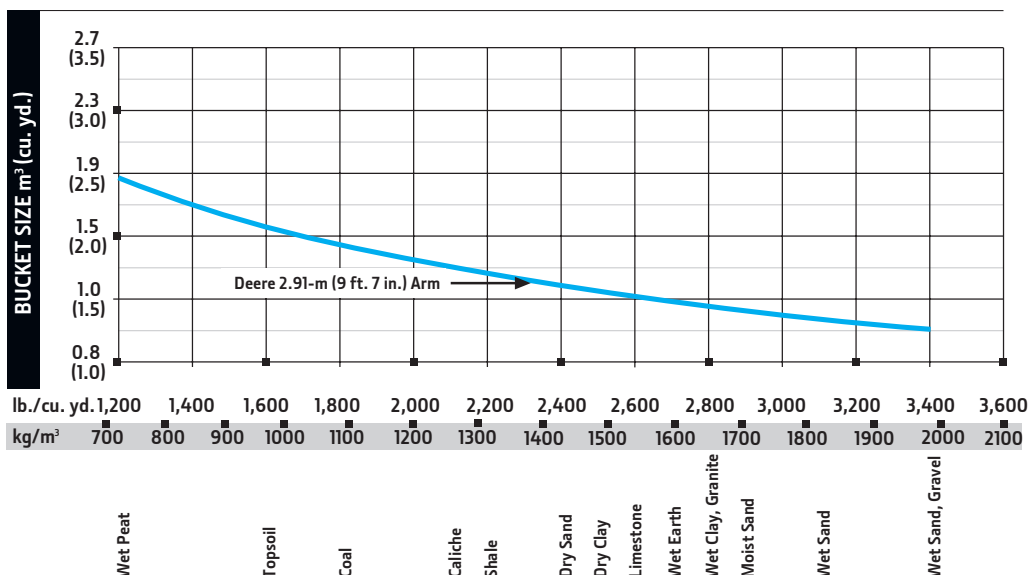
LOAD POINT HEIGHT	1.5 m (5 ft.)		3.0 m (10 ft.)		4.5 m (15 ft.)		6.0 m (20 ft.)		7.5 m (25 ft.)	
	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
<i>With 2.91-m (9 ft. 7 in.) arm and 800-mm (32 in.) triple semi-grouser shoes</i>										
7.5 m (20 ft.)					4600 (10,200)	4600 (10,200)	4750 (10,300)	4750 (10,300)		
6.0 m (20 ft.)					5150 (11,200)	5150 (11,200)	4850 (10,600)	4850 (10,600)	3950	3350
4.5 m (15 ft.)			9400 (19,900)	9400 (19,900)	6650 (14,300)	6650 (14,300)	5500 (11,900)	4850 (10,450)	4900 (10,750)	3300 (7,100)
3.0 m (10 ft.)					8700 (18,700)	7200 (15,600)	6400 (13,850)	4600 (9,900)	5300 (11,550)	3200 (6,850)
1.5 m (5 ft.)					10 300 (22,250)	6750 (14,500)	7250 (15,650)	4350 (9,400)	5300 (11,400)	3050 (6,600)
Ground Line			3950 (9,150)	3950 (9,150)	10 850 (23,500)	6500 (14,000)	7400 (15,850)	4200 (9,050)	5200 (11,200)	3000 (6,400)
-1.5 m (-5 ft.)	5350 (11,950)	5350 (11,950)	8400 (19,100)	8400 (19,100)	10 450 (22,700)	6450 (13,900)	7300 (15,750)	4150 (8,950)	5200 (11,150)	2950 (6,400)
-3.0 m (-10 ft.)	9750 (21,900)	9750 (21,900)	13 050 (28,250)	13 050 (28,200)	9250 (19,950)	6550 (14,100)	6700 (14,350)	4200 (9,050)		
-4.5 m (-15 ft.)			9250 (19,650)	9250 (19,650)	6650 (13,950)	6650 (13,950)				

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.

Bucket Type	Bucket Width		Bucket Capacity		Bucket Weight	
	mm	in.	m ³	cu. yd.	kg	lb.
Heavy Duty	610	24	0.39	0.51	443	975
	762	30	0.54	0.71	498	1,097
	914	36	0.70	0.91	562	1,238
	1067	42	0.85	1.11	602	1,327
Ditching	1219	48	1.00	1.31	660	1,453
	1524	60	1.19	1.55	547	1,204

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.

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Additional equipment

Key: ● Standard ▲ Optional or special

See your John Deere dealer for further information.

135G	245G	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
●	●	70% (35 deg.) off-level capability
●	●	Programmable auto shutdown
▲	▲	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
●	●	Auxiliary hydraulic lines with hand-controlled proportional control
▲	▲	Load-lowering control 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
●	●	Track guides, front idler and center
●	●	2-speed propel with automatic shift
●	●	Upper carrier roller (1)
●	●	Upper carrier rollers (2)
●	●	Sealed and lubricated track chain
▲	▲	Triple semi-grouser shoes, 600 mm (24 in.)
▲	▲	Triple semi-grouser shoes, 700 mm (28 in.)
▲	▲	Triple semi-grouser shoes, 800 mm (32 in.)

135G	245G	Undercarriage (continued)
▲		Rubber crawler pads, 500 mm (20 in.)
▲		Undercarriage with blade
Upperstructure		
●	●	Right-hand, left-hand, and counter-weight mirrors
●	●	Vandal locks with ignition key: Cab door / Service doors / Toolbox
●	●	Debris screening
●	●	Remote-mounted engine oil and fuel filters
Front Attachments		
●	●	Centralized lubrication system
●	●	Dirt seals on all bucket pins
●	●	Oil-impregnated bushings
●	●	Reinforced resin thrust plates
●	●	Tungsten carbide thermal coating on arm-to-bucket joint
▲		Arm, 2.52 m (8 ft. 3 in.)
●	●	Arm, 2.91 m (9 ft. 7 in.)
●		Arm, 3.01 m (9 ft. 11 in.)
▲	▲	Attachment quick-couplers
▲	▲	Buckets: Ditching / Heavy duty / Heavy-duty high capacity / Side cutters and teeth
▲	▲	Material clamps
Operator's Station		
●	●	Meets ISO 12117-2 for ROPS
●	●	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 mechanical-suspension cloth seat with 100-mm (4 in.) adjustable armrests
●	●	Deluxe air-suspension heated 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
●	●	Hour meter, electric

135G	245G	Operator's Station (continued)
●	●	Hydraulic shutoff lever, all controls
●	●	Hydraulic warm-up control
●	●	Interior light
●	●	Large cup holder
●	●	Machine Information Center (MIC)
●	●	Mode selectors (illuminated): Power modes (3) / Travel modes (2 with automatic shift) / Work mode (1)
●	●	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
●	●	SAE 2-lever control pattern
●	●	Seat belt, 76 mm (3 in.), non-retractable
●	●	Tinted glass
●	●	Transparent tinted overhead hatch
●	●	Hot/cold beverage compartment
▲	▲	Hydraulic oil filter restriction indicator light
▲	▲	Protection screens for cab front, rear, and side
▲	▲	Window vandal-protection covers
Electrical		
●	●	50-amp alternator
●	●	Blade-type multi-fused circuits
●	●	Positive-terminal battery covers
●	●	JDLINK™ wireless communication system (available in specific countries; see your dealer for details)
●	●	Rearview camera
Lights		
●	●	Work lights: Halogen / 1 mounted on boom / 1 mounted on frame
▲	▲	2 lights mounted on cab / 1 mounted on right side of boom

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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 135G unit with 914-mm (36 in.), 0.5-m³ (0.65 cu. yd.), 414-kg (913 lb.) general-purpose bucket; 3.01-m (9 ft. 11 in.) arm; 3650-kg (8,047 lb.) counterweight; and 700-mm (28 in.) triple-semi grouser shoes; and a 245G LC unit with 1219-mm (48 in.), 1.09-m³ (1.43 cu. yd.), 871-kg (1,921 lb.) heavy-duty bucket; 2.91-m (9 ft. 7 in.) arm; 7280-kg (16,050 lb.) counterweight; and 800-mm (32 in.) triple semi-grouser shoes.

