135G/245G LC EXCAVATORS

14 300–25 800-kg (31,500–56,830 lb.) Operating Weight

JOHN DEERE

Urban legends.

Whether your work is urban renewal, street repair, or underground utilities, the 135G and 245G LC deliver legendary performance. Durable EPA Final Tier 4 (FT4)/EU Stage IV diesels meet rigid emission regulations, so you can work, everywhere there's work — without compromising power, reliability, or ease of operation.

Key specifications	135G	245G LC
Net rated power	75 kW (101 hp)	119 kW (159 hp)
Operating weight	14 300–15 400 kg (31,500–33,920 lb.)	25 800 kg (56,830 lb.)
Lifting capacity	4110 kg (8,910 lb.)	7400 kg (15,850 lb.)
Maximum digging depth	5.98 m (20 ft. 0 in.)	6.62 m (21 ft. 9 in.)
Arm digging force	61 kN (13,710 lb.)	114 kN (25,630 lb.)
Bucket digging force	104 kN (23,380 lb.)	158 kN (35,520 lb.)


DEERE
245G LC

Easy street.

No need to sweat it. Our reduced-tail-swing excavators give your operators everything they 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 all look pretty easy.

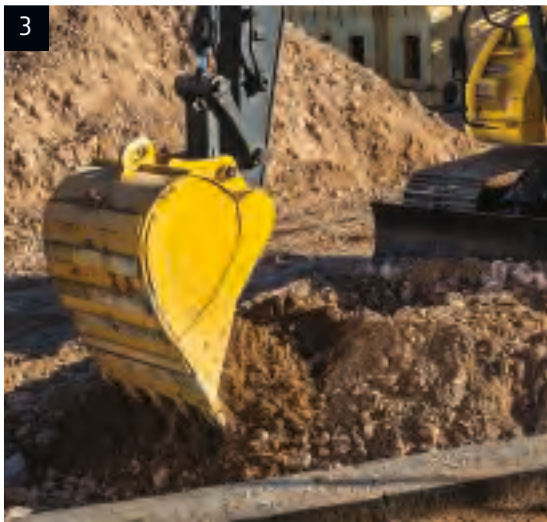
Powerwise™ III hydraulic management system perfectly balances engine performance and hydraulic flow for predictable operation. Three productivity modes let an operator choose the digging style that fits the job. ***High-productivity*** delivers more power and faster hydraulic response to move more material.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

Optional 135G backfill blade adds stability and eliminates the need for extra equipment. 500-mm (20 in.) optional rubber crawler pad helps reduce damage to concrete or asphalt when working on street repairs or in housing developments.

1. 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.
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. For tasks that require extra finesse, short-throw low-effort controls, one-of-a-kind metering, and smooth multifunction operation provide the precision you need.


1


2


3

Put more productivity on speed dial.

Now it's easier than ever 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 functions and features.

New hood design ensures optimal visibility to the sides and rear, even with the increased under-the-hood space requirements of FT4/ Stage IV engine components.

We've got your back with a sculpted mechanical-suspension high-back seat standard on the 135G. Seat slides together or independent of the joystick console, so it won't cramp an operator's style. Standard air-suspension heated seat in the 245G LC keeps operators comfortably supported and productive.

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.

With large self-cleaning steps and wide entryways, getting in and out of our excavators has never been easier.

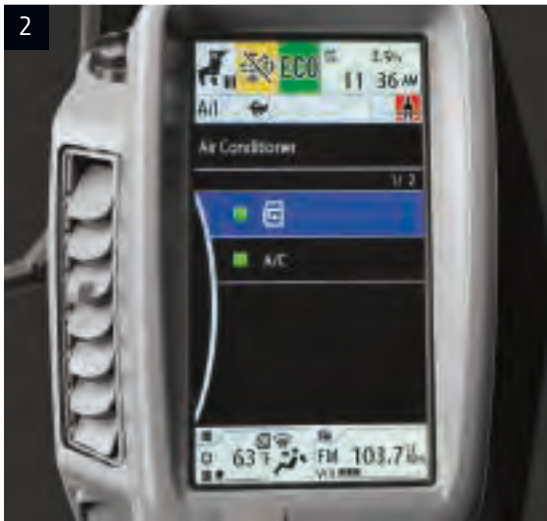
Standard boom/frame lights and field-installed cab/boom-mounted lights provide illumination to extend your workday beyond normal daylight hours.

Operators will also appreciate the spacious well-appointed cab, virtually unobstructed all-round visibility including a standard rearview camera, and numerous other amenities that provide everything they need to do their best work.

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

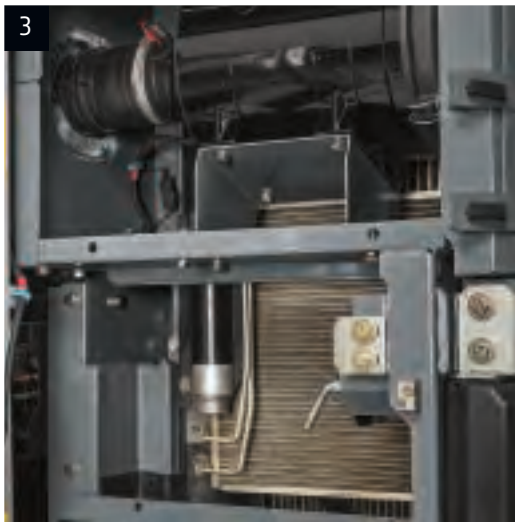
1. Multi-language LCD monitor and rotary dial provide intuitive access to a wealth of information and functions. Just turn and tap to select work mode, access operating info, check maintenance intervals, source diagnostic codes, adjust cab temperature, and tune the radio. Plus much more.

2. 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.

It's not just their smooth-as-silk operation that separates our excavators from the rest. Durability is unmatched, too. When you know how they're built, you'll run a Deere.



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

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

3. 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.

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.

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

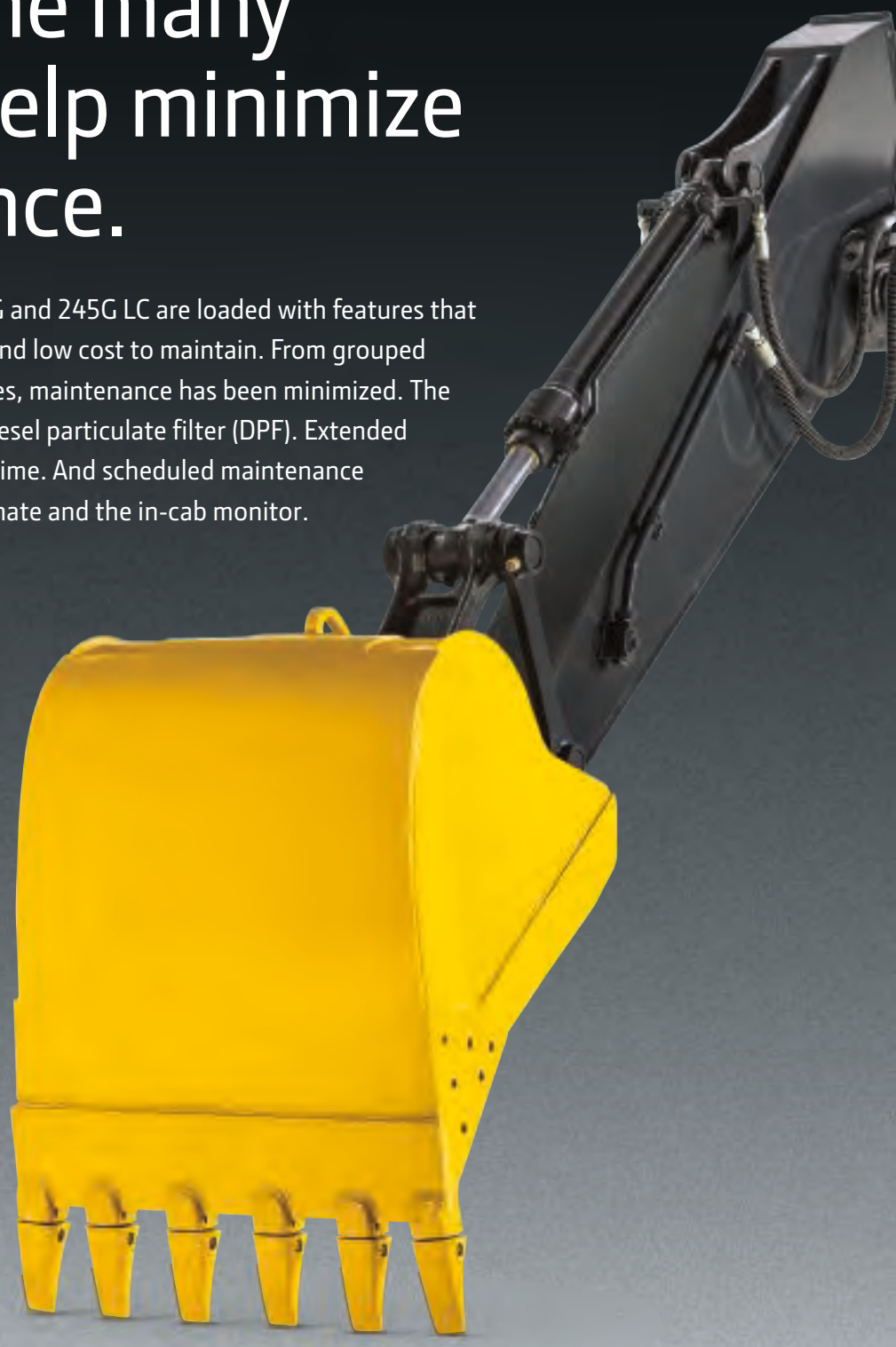
Uncover the many ways we help minimize maintenance.

Like all of our equipment, the 135G and 245G LC are loaded with features that make them hassle-free to service and low cost to maintain. From grouped service points to at-a-glance gauges, maintenance has been minimized. The FT4/Stage IV engine requires no diesel particulate filter (DPF). Extended service intervals help maximize uptime. And scheduled maintenance is easy to track using JDLink™ Ultimate and the in-cab monitor.

Vertical spin-on fuel and engine oil filters are positioned for convenient and simplified servicing.

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

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



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

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

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

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.

John Deere 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, response-time guarantees, and more.

1

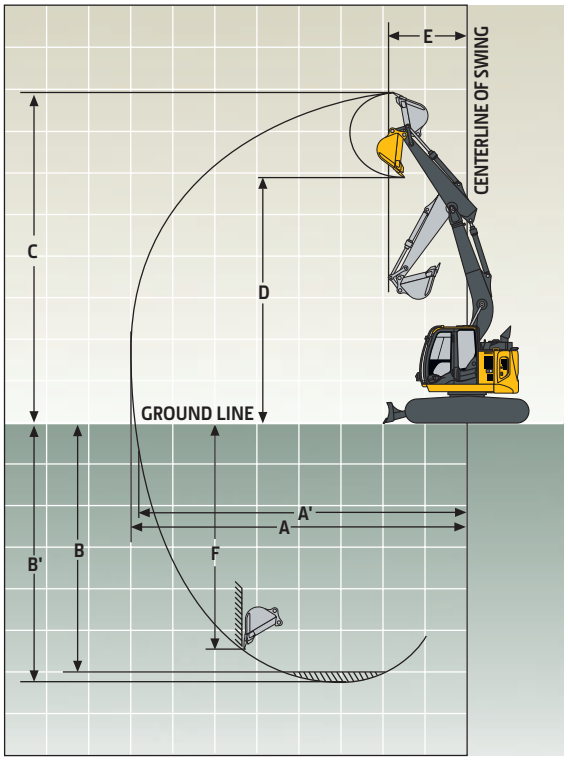
2

3

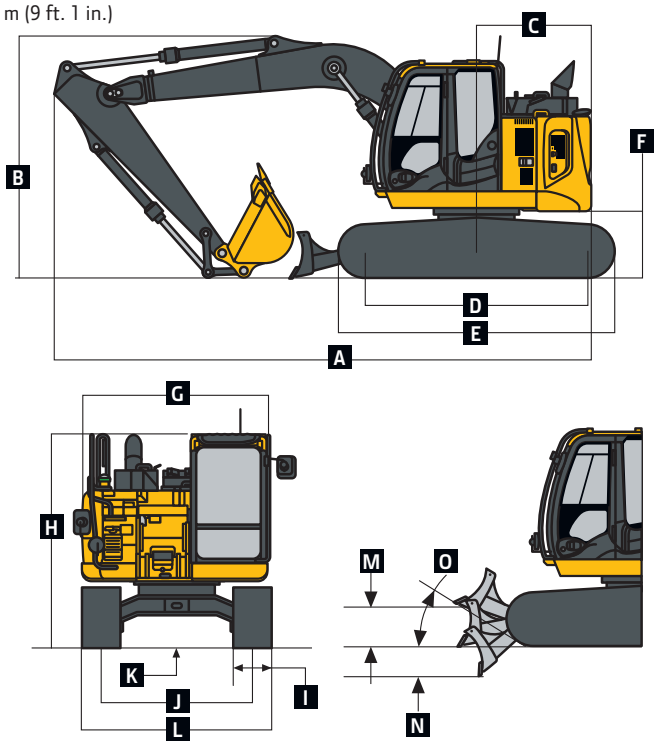
135G

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, load sensing			
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)	

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 (40.9 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.), 0.62-m³ (0.81 cu. yd.), 448-kg (987 lb.) heavy-duty bucket; 3.01-m (9 ft. 11 in.) arm; and 3650-kg (8,047 lb.) counterweight		
Operating Weights	*Without Blade*	*With Blade*
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	*2.52 m (8 ft. 3 in.)*	*3.01 m (9 ft.11 in.)*
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)



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
With 2.52-m (8 ft. 3 in.) arm and 500-mm (20 in.) rubber crawler pad, without blade										
6.0 m (20 ft.)					**3310 (7,340)**	**3310 (7,200)**				
4.5 m (15 ft.)			**3570 (7,830)**	**3570 (7,830)**	**3560 (7,750)**	**3290 (7,070)**	3030 **(6,490)**	1950 **(4,180)**		
3.0 m (10 ft.)			**6260 (13,390)**	**6080 (13,100)**	**4370 (9,470)**	**3090 (6,660)**	2960 (6,360)	1890 (4,050)		
1.5 m (5 ft.)			**6430 (15,850)**	**5370 (11,570)**	4570 (9,830)	2860 (6,150)	2860 (6,140)	1790 (3,840)		
Ground Line			**5770 (13,410)**	**5100 (10,950)**	4390 (9,430)	2690 (5,790)	2770 (5,950)	1710 (3,670)		
–1.5 m (–5 ft.)	**4360 (9,790)**	**4360 (9,790)**	**8740 (18,950)**	**5080 (10,900)**	4320 (9,290)	2630 (5,660)	2740 (5,900)	1680 (3,620)		
–3.0 m (–10 ft.)	**8240 (18,630)**	**8240 (18,630)**	**7080 (15,240)**	**5190 (11,140)**	4370 (9,400)	2680 (5,770)				
With 3.01-m (9 ft. 11 in.) arm and 500-mm (20 in.) rubber crawler pad, blade on ground										
6.0 m (20 ft.)					**2780 (6,170)**	**2780 (6,170)**	**2000**	**2000**		
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				

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.

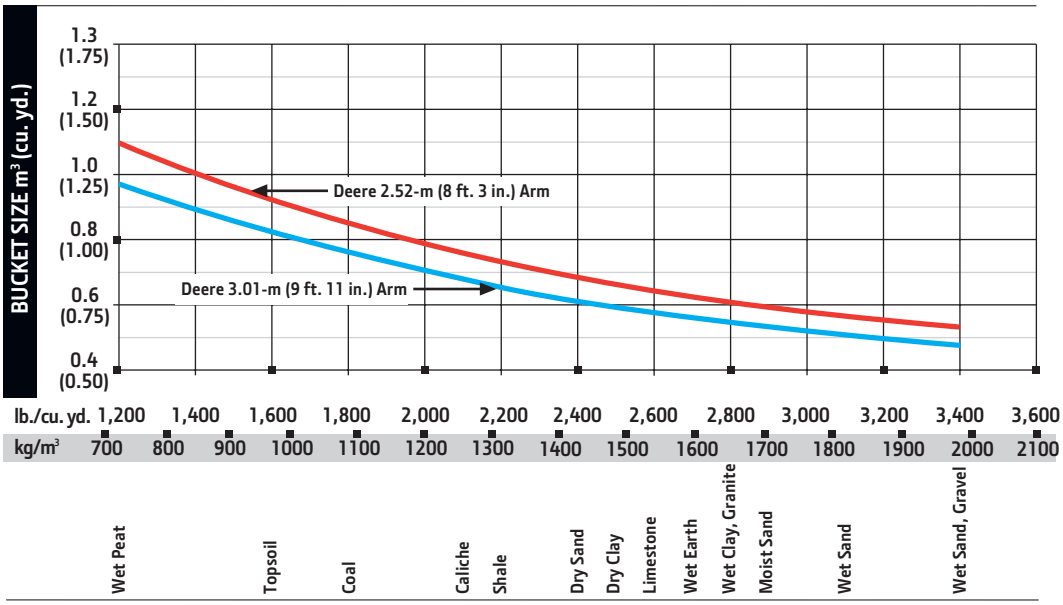
	HORIZONTAL DISTANCE FROM CENTERLINE OF ROTATION									
	1.5 m (5 ft.)		3.0 m (10 ft.)		4.5 m (15 ft.)		6.0 m (20 ft.)		7.5 m (25 ft.)	
LOAD POINT HEIGHT	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
With 3.01-m (9 ft. 11 in.) arm and 600-mm (24 in.) triple semi-grouser shoes, blade on ground										
6.0 m (20 ft.)					**2780 (6,170)**	**2780 (6,170)**	**2000**	**2000**		
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				
With 3.01-m (9 ft. 11 in.) arm and 700-mm (28 in.) triple semi-grouser shoes, blade on ground										
6.0 m (20 ft.)					**2780 (6,170)**	**2780 (6,170)**	**2000**	**2000**		
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

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
	1067	42	0.76	0.99	484	1,065
Ditching	1524	60	0.63	0.83	457	1,007

Bucket Selection Guide*

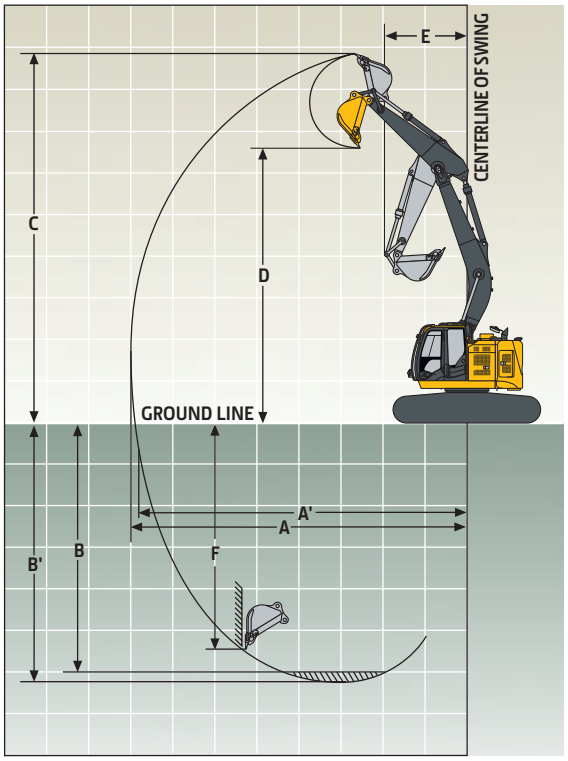


* Contact your John Deere dealer for optimum bucket and attachment selections. These recommendations are for general conditions and average use. Does not include optional equipment such as thumbs or couplers. Larger buckets may be possible when using light materials, for flat and level operations, less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

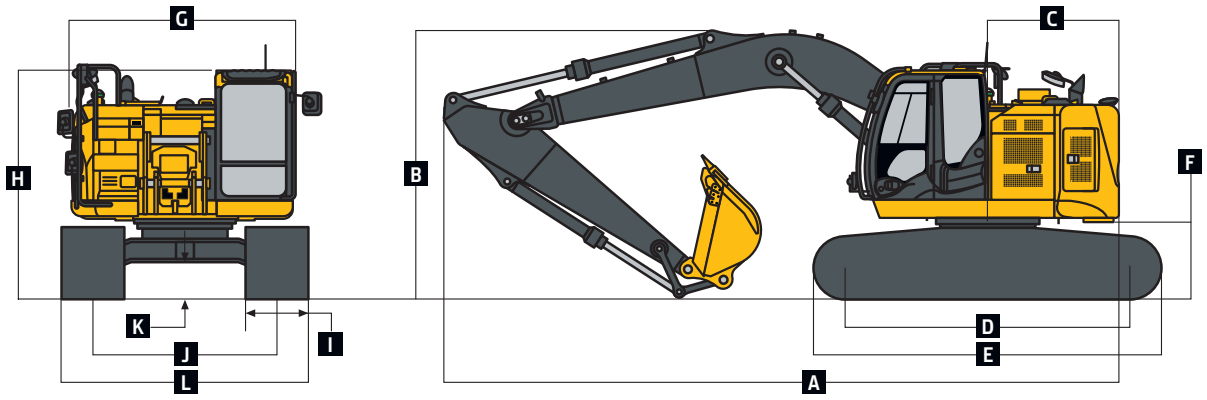
245G LC

Engine	**245G LC**		
	Base engine for use in the U.S., U.S. Territories, and Canada		
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, air-to-air charge-air cooler		
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	20 700 kg (45,636 lb.)		
Hydraulics			
Open center, load sensing			
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	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			
	Bore	*Rod Diameter*	*Stroke*
Boom (2)	120 mm (4.72 in.)	85 mm (3.35 in.)	1260 mm (49.61 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	245G LC
Triple Semi-Grouser Shoes	
700 mm (28 in.)	45 kPa (6.53 psi)
800 mm (32 in.)	40 kPa (5.80 psi)
Swing Mechanism	
Speed	11.8 rpm
Torque	68 000 Nm (50,000 lb.-ft.)
Serviceability	
Refill Capacities	
Fuel Tank	380 L (100.4 gal.)
Cooling System	28 L (29.6 qt.)
Engine Oil with Filter	23 L (24.3 qt.)
Hydraulic Tank	130 L (34.3 gal.)
Hydraulic System	240 L (63.4 gal.)
Gearbox	
Swing	6.2 L (6.6 qt.)
Propel (each)	6.8 L (7.2 qt.)
Swing Bearing Grease Bath	17 L (18 qt.)
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-m³ (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.)
2.91-m (9 ft. 7 in.) Arm with Bucket Cylinder and Linkage	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 (24,730 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. 2 in.)
A[1] Maximum Reach at Ground Level	9.90 m (32 ft. 6 in.)
B Maximum Digging Depth	6.62 m (21 ft. 9 in.)
B[1] Maximum Digging Depth at 2.44-m (8 ft. 0 in.) Flat Bottom	6.41 m (21 ft. 0 in.)
C Maximum Cutting Height	11.23 m (36 ft. 10 in.)
D Maximum Dumping Height	8.92 m (29 ft. 3 in.)
E Minimum Swing Radius	2.38 m (7 ft. 10 in.)
F Maximum Vertical Wall	5.81 m (19 ft. 1 in.)



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									
	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 2.91-m (9 ft. 7 in.) arm and 700-mm (28 in.) triple semi-grouser shoes										
7.5 m (25 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)**				

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.

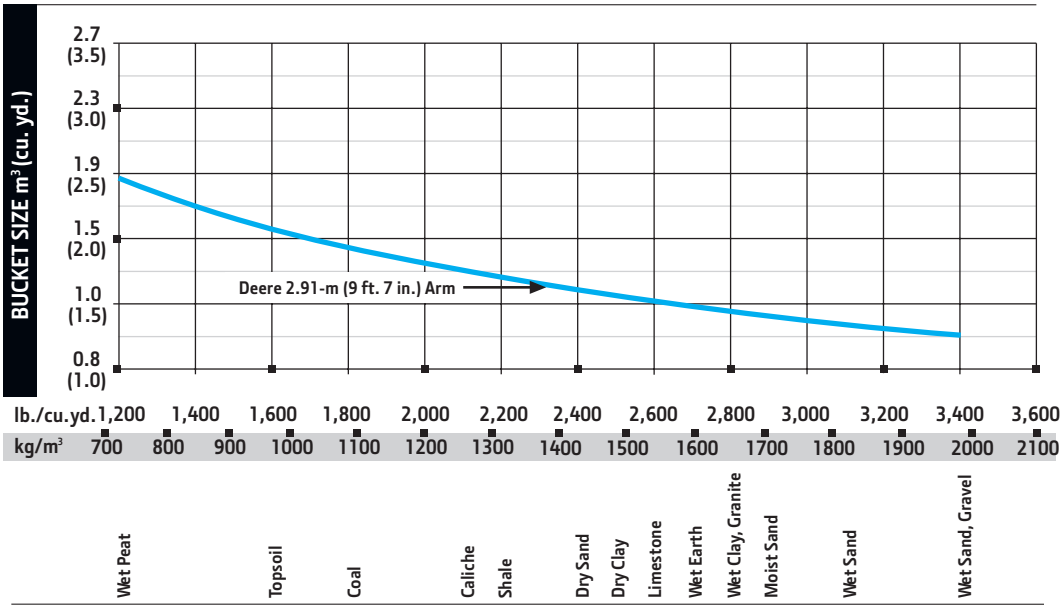
	HORIZONTAL DISTANCE FROM CENTERLINE OF ROTATION									
	1.5 m (5 ft.)		3.0 m (10 ft.)		4.5 m (15 ft.)		6.0 m (20 ft.)		7.5 m (25 ft.)	
LOAD POINT HEIGHT	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
With 2.91-m (9 ft. 7 in.) arm and 800-mm (32 in.) triple semi-grouser shoes										
7.5 m (25 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
	760	30	0.54	0.71	498	1,097
	915	36	0.70	0.91	562	1,238
	1065	42	0.85	1.11	602	1,327
	1220	48	1.00	1.31	660	1,453
Ditching	1500	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.

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.)
▲		Rubber crawler pads, 500 mm (20 in.)
▲		Undercarriage with blade

135G	245G	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
●	●	Hydraulic shutoff lever, all controls
●	●	Hydraulic warm-up control

135G	245G	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 (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, 51 mm (2 in.), 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
▲	▲	Seat belt, 76 mm (3 in.), non-retractable
▲	▲	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

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.), 0.62-m^3 (0.81 cu. yd.), 448-kg (987 lb.) heavy-duty 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-m^3 (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.