

G-SERIES
EXCAVATORS



JOHN DEERE

135G



CRUNCH
IT OUT



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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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

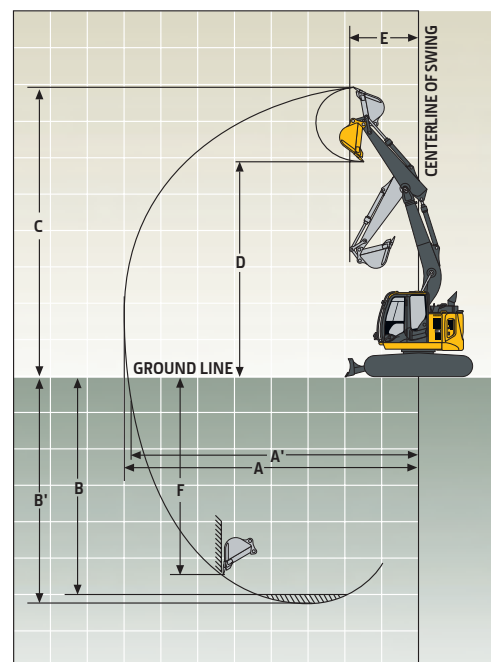
Operating Weights	<i>Without Blade</i>	<i>With Blade</i>
Rubber Crawler Pad, 500 mm (20 in.)	13 900 kg (30,620 lb.)	14 900 kg (32,820 lb.)
Triple Semi-Grouser Shoes		
600 mm (24 in.)	14 100 kg (31,060 lb.)	15 100 kg (33,260 lb.)
700 mm (28 in.)	14 300 kg (31,500 lb.)	15 400 kg (33,920 lb.)

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.)	

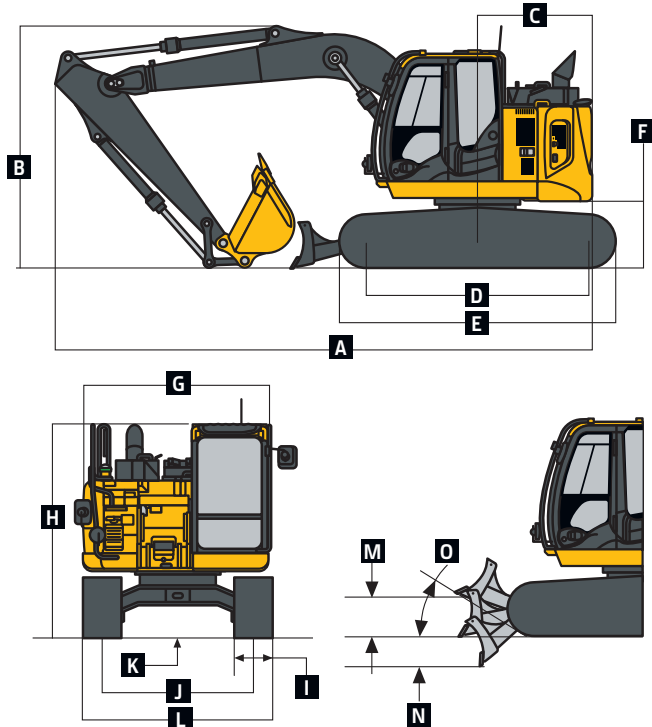
Operating Dimensions

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
With 2.52-m (8 ft. 3 in.) arm and 600-mm (24 in.) triple semi-grouser shoes, blade on ground											
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)

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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.

LOAD POINT HEIGHT	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.)	
	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**

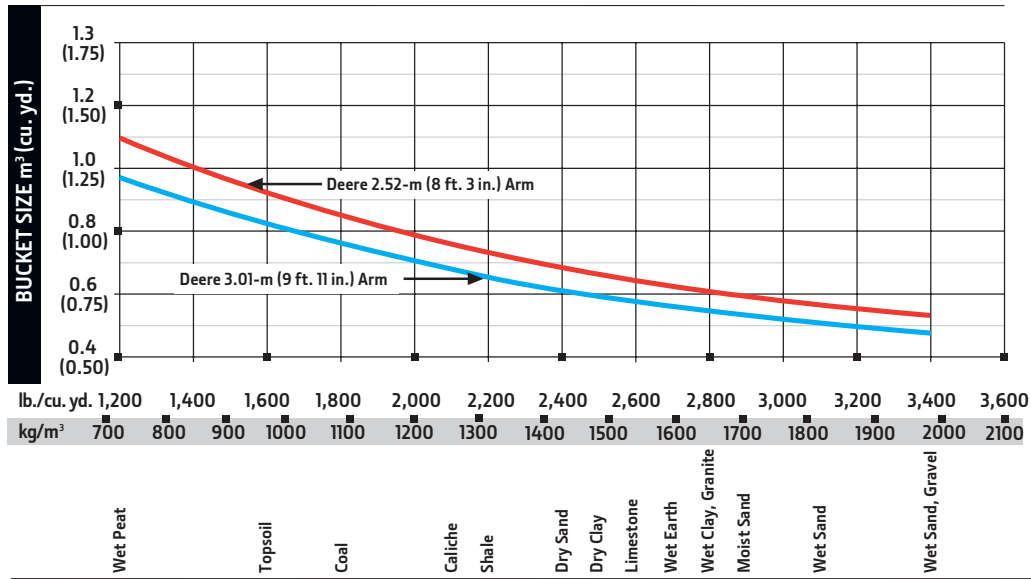
A full line of buckets is offered to meet a wide variety of applications. Digging forces are with power boost. Buckets are equipped with John Deere TK-Series Bucket Teeth standard. Replaceable cutting edges and a variety of teeth are available through John Deere Parts. Optional side cutters add 150 mm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

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* 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.