G-SERIES

EXCAVATORS

JOHN DEERE

470G LC

MUSCLE FOR MORE


PACK


DEERE
RELIABLE
+
PRODUCTIVE
KED TO THE MAX.

NEXT-CAVATOR.

Like the rest of the highly popular G-Series lineup, the 470G LC Excavator makes work less demanding with smooth, one-of-a-kind efficiency. Customer-inspired standards include fuel-shutoff valve for cleaner filter changes, control pattern-change valve that eases operation, and deluxe LED lighting package to expand jobsite visibility. Factory-installed options such as hydraulic single-pedal propel system, a heated/cooled leather seat, and upgradable grade-management solutions enhance operator comfort. Wondering what's next for your operation? Look to the next-generation 470G LC.

ALL WITH YOU IN MIND

IT HARDLY SEEMS LIKE WORK.

With a redesigned 470G LC Excavator in your equipment fleet, you can work harder without a lot of extra effort. These are just some of the features you told us would help take your operation to the next level.

HYDRAULIC
SINGLE-PEDAL
PROPEL SYSTEM (OPTIONAL)

Let there be light

Standard deluxe LED lighting package extends illumination in dark or difficult conditions.

Control pattern

Designed to accommodate different operators with the simple flip of a lever, control pattern-change valve is standard instead of a field-kit option.

Fuel shutoff

Standard fuel-shutoff valve improves cleanliness when replacing fuel filters compared to previous models.

Keep it clean

Factory-installed optional rotary precleaner pulls clean air into the system — a must in harsh working conditions.

Move forward

Optional hydraulic single-pedal propel system enables simplified straight-line machine tracking without the need to engage both foot pedals or both hand levers.

GRADE-MANAGEMENT SOLUTIONS.

GRADE-CONTROL FLEXIBILITY

WE HAVE YOUR SOLUTION.

John Deere offers an economical way to adopt grade-management technology for excavators by providing an easy path for future upgrades. This gives you the flexibility to find the right solution, whether you're looking at this technology for the first time or are interested in a premium solution. Choose economical Excavator Grade Guidance or opt for fully integrated SmartGrade™.

Make good grades

Deere grade-control solutions help reduce labor, improve accuracy, enhance speed, and save on material compared to excavators without grade-management technology. And they help operators of all experience levels to achieve excellent results.

Fully supported

Our grade-management solutions are factory installed and backed by your John Deere dealer, including service, warranty, upgrades, and financing.

Grade Guidance

Grade Guidance arms operators with elevation and position of bucket cutting-edge relative to target plane (2D) or design surface (3D). It's perfect for precision excavation projects, including digging trenches for pipes, shaping ditches or slopes, or excavating structure foundations.

SmartGrade

Fully integrated SmartGrade provides 3D control. The operator controls the arm as the machine automatically controls the boom and bucket. Additional features include overdig protection and in-cab real-time distance to target.

DIAL THINGS UP

OPERATING EASE TAKES A TURN FOR THE BETTER.

Now it's easier than ever for operators to "dial things up." The 470G LC's refined monitor employs a turn-and-tap rotary control that provides quick access to an abundance of performance and convenience features and functions. Quiet and spacious cab enables expansive visibility and includes numerous amenities designed to maximize operator comfort.

3-WAY ADJUSTABLE
PREMIUM LEATHER SEAT
(OPTIONAL)

We've got your back

Sculpted mechanical-suspension high-back seat with 10.5 inches of travel slides together or independent of the joystick console, so it won't cramp an operator's style. Opt for a factory-installed premium air-suspension leather seat that adjusts three ways, is thermally heated and actively cooled, and includes a high-visibility orange retractable seat belt.

Take control

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.

Single-pedal propel

Optional hydraulic single-pedal propel system moves the machine when and where you need it to without having to engage both foot pedals or both hand levers.

In the groove and in the know

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. A USB port helps keep your devices charged.

Shedding light on it

Standard deluxe LED lights at cab front and rear, boom, and toolbox illuminate when your workday extends beyond daylight. They use less power, output more light, and last longer compared to halogen lights.

Cool customer

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

**Grade management not available with auxiliary hydraulics.*

DURABLE AND DEPENDABLE

NOTHING IS BUILT LIKE THIS DEERE MACHINE.

Tough conditions call for strong solutions. That's why we designed the 470G LC to tackle the most difficult tasks and terrain. When you know how it's built, you'll see how rugged this machine is.

Pivotal development

Bucket-to-arm pivot joint features a new heat-treated pin and flanged bushing made of forged steel, to double joint life in sandy digging conditions. High-strength floating-pin design extends pin-case hardening depth by 175 percent, boosting wear life and easing serviceability.

Pattern of protection

Standard control pattern-change valve and fuel shutoff are well protected yet conveniently accessible at ground level.

Solid solution

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

Stress management

A John Deere exclusive, three welded bulkheads within the boom resist torsional stress.

Cooler core cleanout

Highly efficient, hydraulically driven fan runs only as fast as needed, reducing noise, fuel consumption, and operating costs. Standard reversing feature back-blows cooler cores to help keep them clean automatically or at the touch of a button.

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 field-proven technology is simple, fluid efficient, fully integrated, and fully supported. It employs cooled exhaust gas recirculation (EGR), easy-to-maintain high-uptime exhaust filters, and selective catalytic reduction (SCR).

NEW BUSHING PIVOT PIN WITH

175% HARDER PIN-CASE DEPTH

FOR MAXIMUM WEAR LIFE

SIMPLE TO SERVICE

YOU'LL DIG THE BOTTOM LINE.

DEF access

With its large and accessible tank, diesel exhaust fluid (DEF) can be conveniently filled when refueling.

FT4 ash service

Ash-service intervals for the diesel particulate filter (DPF) are condition based, with machine alerts 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.

Refill 'er up

Large fuel tank and 500- and 4,000-hour engine and hydraulic oil-service intervals decrease downtime for routine maintenance compared to models with shorter-hour service requirements. Fluid-level sight gauges are conveniently located and can be checked at a glance.

It's automatic

Auto-idle automatically reduces engine speed when hydraulics aren't in use. Auto shutdown further conserves precious fuel and machine hours.

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.

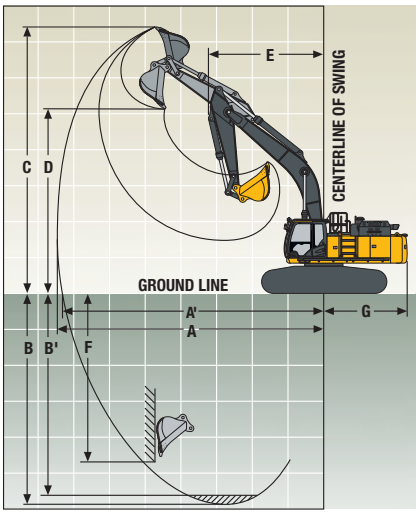
To maximize uptime and lower costs, JDLink also enables **John Deere Connected Support.™** John Deere's centralized Machine Health Monitoring Center analyzes data from thousands of connected machines, identifies trends, and develops recommended actions, called Expert Alerts, to help prevent downtime. 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.

470G LC SPECIFICATIONS

Engine	470G LC		
	Base engine for use in U.S., U.S. Territories, and Canada		
Manufacturer and Model	John Deere PowerTech™ PSS 6135		
Non-Road Emission Standard	EPA Final Tier 4/EU Stage IV		
Net Rated Power (ISO 9249)	274 kW (367 hp) at 2,000 rpm		
Cylinders	6		
Displacement	13.5 L (824 cu. in.)		
Off-Level Capacity	70% (35 deg.)		
Aspiration	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 AutoShift			
Maximum Travel Speed			
Low	3.9 km/h (2.4 mph)		
High	5.5 km/h (3.4 mph)		
Drawbar Pull	33 537 kg (73,937 lb.)		
Hydraulics			
Open center, pilot controlled			
Main Pumps	2 variable-displacement pumps		
Maximum Rated Flow	400 L/m (106 gpm) x 2		
Pilot Pump	1 gear		
Maximum Rated Flow	30 L/m (7.9 gpm)		
Pressure Setting	3900 kPa (566 psi)		
System Operating Pressure			
Circuits			
Implement	31 900 kPa (4,627 psi)		
Travel	35 300 kPa (5,120 psi)		
Swing	28 400 kPa (4,119 psi)		
Power Boost	35 300 kPa (5,120 psi)		
Controls	Pilot levers, short stroke, low-effort hydraulic pilot controls with shutoff lever		
Cylinders			
Heat-treated, chrome-plated, polished cylinder rods; hardened steel (replaceable bushings) pivot pins			
	Bore	*Rod Diameter*	*Stroke*
Boom (2)	170 mm (6.7 in.)	115 mm (4.5 in.)	1590 mm (62.6 in.)
Arm (1)	190 mm (7.5 in.)	130 mm (5.1 in.)	1940 mm (76.4 in.)
Bucket (1)	170 mm (6.7 in.)	120 mm (4.7 in.)	1325 mm (52.2 in.)
Electrical			
Number of Batteries (12 volt)	2		
Battery Capacity	1,400 CCA		
Alternator Rating	100 amp		
Work Lights	5 halogen (1 mounted on frame, 2 mounted on boom, and 2 mounted on top of cab [1 rear facing])		
Undercarriage			
Planetary final drives with axial-piston motors			
Rollers (each side)			
Carrier	3		
Track	9		
Shoes, Triple Semi-Grousers (each side)	53		
Track			
Adjustment	Hydraulic		
Guides	Front and center		
Chain	Sealed and lubricated		
Ground Pressure			
750-mm (30 in.) Single-Grouser Shoes	72.6 kPa (10.5 psi)		
900-mm (36 in.) Triple Semi-Grouser Shoes	61.3 kPa (8.9 psi)		

470G LC SPECIFICATIONS

Swing Mechanism	**470G LC**
Speed	9.5 rpm
Torque	148 000 Nm (109,159 lb.-ft.)
Serviceability	
Refill Capacities	
Fuel Tank	675 L (178 gal.)
Cooling System	62.3 L (16.5 gal.)
Engine Oil with Filter	44 L (12 gal.)
Hydraulic Tank	310 L (82 gal.)
Hydraulic System	510 L (135 gal.)
Gearbox	
Swing (each)	6.5 L (1.7 gal.)
Travel (each)	11 L (2.9 gal.)
Diesel Exhaust Fluid (DEF) Tank	71 L (18.8 gal.)
Operating Weights	
With Full Fuel Tank; 79-kg (175 lb.) Operator; 2.34-m³ (3.06 cu. yd.), 1370-mm (54 in.), 2031-kg (4,478 lb.) Bucket; 3.9-m (12 ft. 10 in.) Arm; 8400-kg (18,519 lb.) Counterweight with Removal Device; and 900-mm (36 in.) Triple Semi-Grouser Shoes	
Operating Weight	51 218 kg (112,916 lb.)
Component Weights	
Undercarriage	
With 750-mm (30 in.) Single Grouser Shoes	18 323 kg (40,395 lb.)
With 900-mm (36 in.) Triple Semi-Grouser Shoes	18 978 kg (41,839 lb.)
Boom	
7-m (23 ft. 0 in.) 1-Piece (with arm cylinder)	4499 kg (9,919 lb.)
6.3-m (20 ft. 7 in.) Mass-Excavating (ME)	4544 kg (10,018 lb.)
Arm with Bucket Cylinder and Linkage	
2.9 m (9 ft. 6 in.)	2534 kg (5,587 lb.)
3.4 m (11 ft. 2 in.)	2539 kg (5,598 lb.)
3.9 m (12 ft. 10 in.)	2640 kg (5,820 lb.)
4.9 m (16 ft. 1 in.)	2320 kg (5,115 lb.)
Boom-Lift Cylinders (2), Total Weight	840 kg (1,853 lb.)

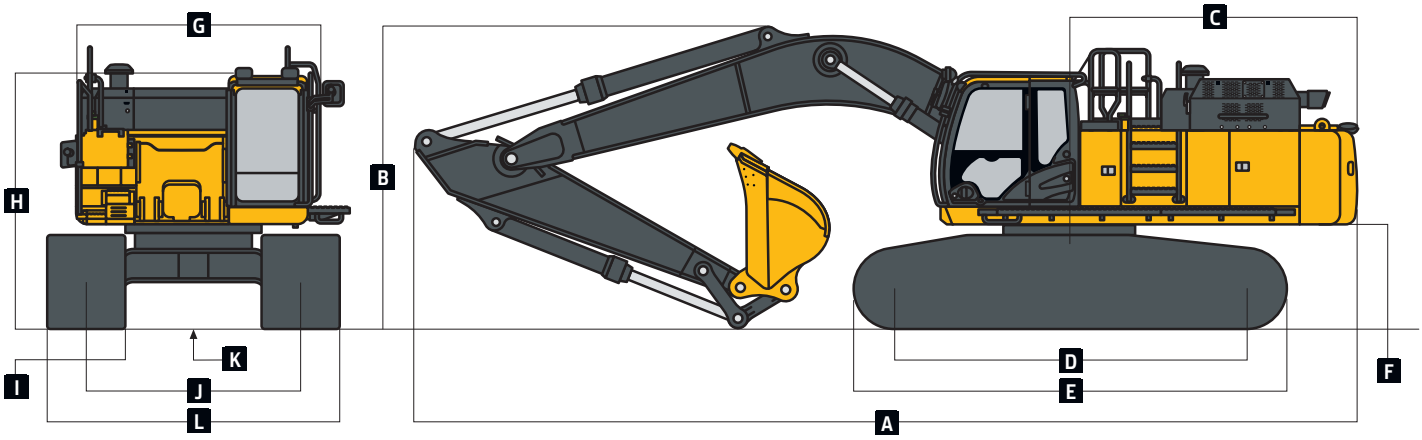


Operating Dimensions

	Arm Length	*2.9 m (9 ft. 6 in.)*	*2.9 m (9 ft. 6 in.) w/ 6.3-m (20 ft. 7 in.) ME Boom*	*3.4 m (11 ft. 2 in.)*	*3.9 m (12 ft. 10 in.)*	*4.9 m (16 ft. 1 in.)*
	Arm Digging Force					
	SAE	252 kN (56,652 lb.)	249 kN (55,977 lb.)	215 kN (48,334 lb.)	196 kN (44,063 lb.)	175 kN (39,342 lb.)
	ISO	259 kN (58,226 lb.)	256 kN (57,551 lb.)	222 kN (49,908 lb.)	201 kN (45,187 lb.)	177 kN (39,791 lb.)
	Bucket Digging Force					
	SAE	254 kN (57,101 lb.)	257 kN (57,776 lb.)	256 kN (57,551 lb.)	256 kN (57,551 lb.)	213 kN (47,884 lb.)
	ISO	285 kN (64,071 lb.)	285 kN (64,071 lb.)	286 kN (64,295 lb.)	286 kN (64,295 lb.)	238 kN (53,505 lb.)
A	Maximum Reach	11.40 m (37 ft. 5 in.)	10.86 m (35 ft. 8 in.)	12.06 m (39 ft. 7 in.)	12.49 m (41 ft. 0 in.)	13.34 m (43 ft. 9 in.)
A'	Maximum Reach at Ground Level	11.17 m (36 ft. 8 in.)	10.61 m (34 ft. 10 in.)	11.84 m (38 ft. 10 in.)	12.28 m (40 ft. 3 in.)	13.14 m (43 ft. 1 in.)
B	Maximum Digging Depth	7.28 m (23 ft. 11 in.)	6.23 m (20 ft. 5 in.)	7.77 m (25 ft. 6 in.)	8.27 m (27 ft. 2 in.)	9.11 m (29 ft. 11 in.)
B'	Maximum Digging Depth at 2.44-m (8 ft. 0 in.) Flat Bottom	7.08 m (23 ft. 3 in.)	6.08 m (19 ft. 11 in.)	7.63 m (25 ft. 0 in.)	8.14 m (26 ft. 8 in.)	9.00 m (29 ft. 6 in.)
C	Maximum Cutting Height	10.25 m (33 ft. 8 in.)	10.88 m (35 ft. 8 in.)	11.06 m (36 ft. 3 in.)	11.16 m (36 ft. 7 in.)	11.73 m (38 ft. 6 in.)
D	Maximum Dumping Height	7.03 m (23 ft. 1 in.)	7.33 m (24 ft. 1 in.)	7.65 m (25 ft. 1 in.)	7.77 m (25 ft. 6 in.)	8.67 m (28 ft. 5 in.)
E	Minimum Swing Radius	5.02 m (16 ft. 6 in.)	3.93 m (12 ft. 11 in.)	4.84 m (15 ft. 11 in.)	4.81 m (15 ft. 9 in.)	4.85 m (15 ft. 11 in.)
F	Maximum Vertical Wall	5.27 m (17 ft. 3 in.)	5.02 m (16 ft. 6 in.)	6.59 m (21 ft. 7 in.)	6.98 m (22 ft. 11 in.)	8.42 m (27 ft. 7 in.)
G	Tail-Swing Radius	3.67 m (12 ft. 0 in.)	3.67 m (12 ft. 0 in.)	3.67 m (12 ft. 0 in.)	3.67 m (12 ft. 0 in.)	3.67 m (12 ft. 0 in.)

470G LC

Machine Dimensions	470G LC				
		2.9 m (9 ft. 6 in.) w/ 6.3-m (20 ft. 7 in.)			
Arm Length	*2.9 m (9 ft. 6 in.)*	*ME Boom*	*3.4 m (11 ft. 2 in.)*	*3.9 m (12 ft. 10 in.)*	*4.9 m (16 ft. 1 in.)*
A Overall Length with Arm	12.10 m (39 ft. 8 in.)	11.32 m (37 ft. 2 in.)	12.01 m (39 ft. 5 in.)	12.01 m (39 ft. 5 in.)	12.00 m (39 ft. 4 in.)
B Overall Height with Arm	3.60 m (11 ft. 10 in.)	3.74 m (12 ft. 3 in.)	3.48 m (11 ft. 5 in.)	3.50 m (11 ft. 6 in.)	4.55 m (14 ft. 11 in.)
C Rear-End Length/Swing Radius	3.67 m (12 ft. 0 in.)	3.67 m (12 ft. 0 in.)	3.67 m (12 ft. 0 in.)	3.67 m (12 ft. 0 in.)	3.67 m (12 ft. 0 in.)
D Distance Between Idler/Sprocket Centerline	4.47 m (14 ft. 8 in.)	4.47 m (14 ft. 8 in.)	4.47 m (14 ft. 8 in.)	4.47 m (14 ft. 8 in.)	4.47 m (14 ft. 8 in.)
E Undercarriage Length	5.47 m (17 ft. 11 in.)	5.47 m (17 ft. 11 in.)	5.47 m (17 ft. 11 in.)	5.47 m (17 ft. 11 in.)	5.47 m (17 ft. 11 in.)
F Counterweight Clearance	1.36 m (4 ft. 6 in.)	1.36 m (4 ft. 6 in.)	1.36 m (4 ft. 6 in.)	1.36 m (4 ft. 6 in.)	1.36 m (4 ft. 6 in.)
G Upperstructure Width	3.48 m (11 ft. 5 in.)	3.48 m (11 ft. 5 in.)	3.48 m (11 ft. 5 in.)	3.48 m (11 ft. 5 in.)	3.48 m (11 ft. 5 in.)
H Cab Height	3.33 m (10 ft. 11 in.)	3.33 m (10 ft. 11 in.)	3.33 m (10 ft. 11 in.)	3.33 m (10 ft. 11 in.)	3.33 m (10 ft. 11 in.)
I Track Width with Triple Semi-Grouser Shoes	750 mm (30 in.) / 900 mm (36 in.)	750 mm (30 in.) / 900 mm (36 in.)	750 mm (30 in.) / 900 mm (36 in.)	750 mm (30 in.) / 900 mm (36 in.)	750 mm (30 in.) / 900 mm (36 in.)
J Gauge Width					
Operating Position	2.89 m (9 ft. 6 in.)	2.89 m (9 ft. 6 in.)	2.89 m (9 ft. 6 in.)	2.89 m (9 ft. 6 in.)	2.89 m (9 ft. 6 in.)
Transport Position	2.39 m (7 ft. 10 in.)	2.39 m (7 ft. 10 in.)	2.39 m (7 ft. 10 in.)	2.39 m (7 ft. 10 in.)	2.39 m (7 ft. 10 in.)
K Ground Clearance	0.74 m (29 in.)	0.74 m (29 in.)	0.74 m (29 in.)	0.74 m (29 in.)	0.74 m (29 in.)
L Overall Width with Triple Semi-Grouser Shoes					
750 mm (30 in.)					
Operating Position	3.64 m (11 ft. 11 in.)	3.64 m (11 ft. 11 in.)	3.64 m (11 ft. 11 in.)	3.64 m (11 ft. 11 in.)	3.64 m (11 ft. 11 in.)
Transport Position	3.14 m (10 ft. 4 in.)	3.14 m (10 ft. 4 in.)	3.14 m (10 ft. 4 in.)	3.14 m (10 ft. 4 in.)	3.14 m (10 ft. 4 in.)
900 mm (36 in.)					
Operating Position	3.79 m (12 ft. 5 in.)	3.79 m (12 ft. 5 in.)	3.79 m (12 ft. 5 in.)	3.79 m (12 ft. 5 in.)	3.79 m (12 ft. 5 in.)
Transport Position	3.29 m (10 ft. 10 in.)	3.29 m (10 ft. 10 in.)	3.29 m (10 ft. 10 in.)	3.29 m (10 ft. 10 in.)	3.29 m (10 ft. 10 in.)



Lift Capacities **470G LC**

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

	HORIZONTAL DISTANCE FROM CENTERLINE OF ROTATION									
	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
With 7.0-m (23 ft. 0 in.) boom, 3.9-m (12 ft. 10 in.) arm, 1.9-m³ (2.5 cu. yd.) bucket, and 750-mm (30 in.) triple semi-grouser shoes										
7.5 m (25 ft.)									**6350**	**6350**
6.0 m (20 ft.)							**10 300 (22,410)**	**10 300** (22,370)	**9530 (19,670)**	7440 (15,900)
4.5 m (15 ft.)					**13 640 (29,430)**	**13 640 (29,430)**	**11 410 (24,740)**	9960 (21,430)	**10 080 (21,940)**	7220 (15,490)
3.0 m (10 ft.)			22 520 **(48,350)**	21 220 (45,760)	**15 940 (34,390)**	13 520 (29,130)	**12 670 (27,430)**	9460 (20,360)	**10 750 (23,350)**	6940 (14,900)
1.5 m (5 ft.)			18 450 **(44,110)**	**18 450** (42,600)	**17 800 (38,470)**	12 720 (27,400)	**13 780 (29,820)**	9000 (19,360)	**11 350** (24,380)	6680 (14,340)
Ground Line			18 470 **(42,920)**	**18 470** (41,210)	**18 780 (40,650)**	12 210 (26,280)	**14 460 (31,300)**	8660 (18,630)	**11 120** (23,910)	6470 (13,900)
–1.5 m (–5 ft.)	**11 930 (26,990)**	**11 930 (26,990)**	23 290 **(53,590)**	19 040 (40,870)	**18 770 (40,650)**	11 980 (25,770)	**14 520 (31,410)**	8480 (18,230)	**11 010** (23,670)	6370 (13,690)
–3.0 m (–10 ft.)	**18 590 (42,050)**	**18 590 (42,050)**	23 450 **(50,810)**	19 160 (41,140)	**17 740 (38,340)**	11 970 (25,760)	**13 750 (29,620)**	8460 (18,200)	**10 530**	6410
–4.5 m (–15 ft.)	**26 700 (57,600)**	**26 700 (57,600)**	20 090 **(43,280)**	19 520 (41,940)	**15 400 (33,050)**	12 180 (26,220)	**11 620 (24,590)**	8640 (18,640)		
–6.0 m (–20 ft.)			14 470 **(30,450)**	**14 470 (30,450)**	**10 680 (21,930)**	**10 680 (21,930)**				
With 7.0-m (23 ft. 0 in.) boom, 2.9-m (9 ft. 6 in.) arm, 2.3-m³ (3.0 cu. yd.) bucket, and 900-mm (36 in.) triple semi-grouser shoes										
6.0 m (20 ft.)					**13 260 (28,560)**	**13 260 (28,560)**	**11 450 (24,910)**	10 090 (21,660)		
4.5 m (15 ft.)			**21 100 (44,910)**	**21 100 (44,910)**	**15 270 (32,750)**	14 040 (30,070)	**12 440 (26,860)**	9720 (20,800)	**10 830 (23,590)**	7000 (14,970)
3.0 m (10 ft.)					**17 260 (37,080)**	13 150 (28,180)	**13 500 (29,090)**	9280 (19,840)	**11 310 (24,520)**	6810 (14,550)
1.5 m (5 ft.)					**18 540 (39,980)**	12 480 (26,790)	**14 300 (30,810)**	8910 (19,010)	11 350 (24,300)	6620 (14,130)
Ground Line			**18 040 (42,030)**	**18 040** (41,240)	**18 810 (40,680)**	12 150 (26,070)	**14 570 (31,400)**	8660 (18,490)	11 210 (24,020)	6490 (13,870)
–1.5 m (–5 ft.)	**14 410 (32,620)**	**14 410 (32,620)**	**23 410 (51,050)**	19 250 (41,460)	**18 100 (39,140)**	12 090 (25,910)	**14 110 (30,340)**	8590 (18,340)		
–3.0 m (–10 ft.)	**25 090 (54,980)**	**25 090 (54,980)**	**20 680 (44,930)**	19 560 (42,090)	**16 290 (35,050)**	12 250 (26,230)	**12 510 (26,600)**	8710 (18,620)		
–4.5 m (–15 ft.)			**16 300 (34,880)**	**16 300 (34,880)**	**12 690 (26,720)**	12 670 **(26,720)**				
With 7.0-m (23 ft. 0 in.) boom, 3.4-m (11 ft. 2 in.) arm, 2.7-m³ (2.1 cu. yd.) bucket, and 900-mm (36 in.) triple semi-grouser shoes										
7.5 m (25 ft.)							**10 340 (22,650)**	**10 340 (22,650)**		
6.0 m (20 ft.)							**10 990 (23,910)**	10 390 (22,330)	**9760 (18,910)**	7420 (15,850)
4.5 m (15 ft.)			**19 590 (41,940)**	**19 590 (41,940)**	**14 580 (31,450)**	14 400 (31,040)	**12 040 (26,110)**	9980 (21,460)	**10 580 (23,040)**	7260 (15,560)
3.0 m (10 ft.)			**21 700 (51,720)**	21 010 (45,320)	**16 770 (36,170)**	13 520 (29,140)	**13 220 (28,610)**	9510 (20,470)	**11 160 (24,240)**	7010 (15,050)
1.5 m (5 ft.)			**13 630 (32,940)**	**13 630 (32,940)**	**18 390 (39,730)**	12 820 (27,620)	**14 190 (30,710)**	9100 (19,590)	11 510 (24,740)	6780 (14,570)
Ground Line			**16 690 (38,950)**	**16 690 (38,950)**	**19 040 (41,220)**	12 410 (26,720)	**14 680 (31,780)**	8820 (18,980)	11 330 (24,360)	6620 (14,220)
–1.5 m (–5 ft.)	**11 830 (26,860)**	**11 830 (26,860)**	**23 690 (53,970)**	19 530 (41,920)	**18 680 (40,460)**	12 270 (26,390)	**14 490 (31,340)**	8690 (18,700)	11 270 (24,250)	6560 (14,120)
–3.0 m (–10 ft.)	**20 250 (45,890)**	**20 250 (45,890)**	**22 440 (48,650)**	19 730 (42,360)	**17 260 (37,280)**	12 330 (26,520)	**13 350 (28,700)**	8730 (18,800)		
–4.5 m (–15 ft.)	**23 560 (50,800)**	**23 560 (50,800)**	**18 530 (39,860)**	**18 530 (39,860)**	**14 340 (30,650)**	12 600 (27,140)	**10 290**	9010		

Lift Capacities *(continued)* **470G LC**

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

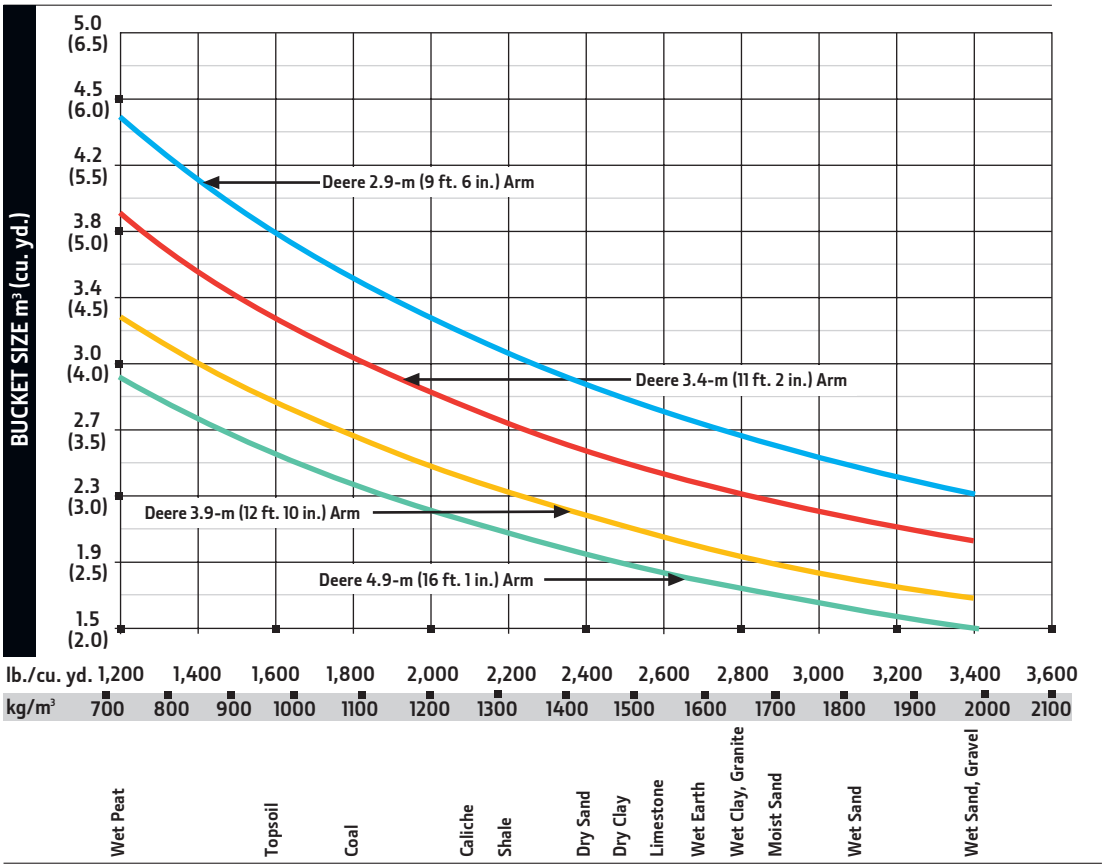
	HORIZONTAL DISTANCE FROM CENTERLINE OF ROTATION									
	3.0 m (10 ft.)		4.5 m (15 ft.)		6.0 m (20 ft.)		7.5 m (25 ft.)		9.0 m (30 ft.)	
LOAD POINT HEIGHT	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
With 7.0-m (23 ft. 0 in.) boom, 3.9-m (12 ft. 10 in.) arm, 1.9-m³ (2.5 cu. yd.) bucket, and 900-mm (36 in.) triple semi-grouser shoes										
7.5 m (25 ft.)									**6350**	**6350**
6.0 m (20 ft.)							**10 300 (22,410)**	**10 300 (22,410)**	**9530 (19,670)**	7540 (16,130)
4.5 m (15 ft.)					**13 640 (29,430)**	**13 640 (29,430)**	**11 410 (24,740)**	10 090 (21,710)	**10 080 (21,940)**	7330 (15,710)
3.0 m (10 ft.)			**22 520 (48,350)**	21 480 (46,330)	**15 940 (34,390)**	13 690 (29,510)	**12 670 (27,430)**	9590 (20,640)	**10 750 (23,350)**	7050 (15,130)
1.5 m (5 ft.)			**18 450 (44,110)**	**18 450** (43,160)	**17 800 (38,470)**	12 900 (27,780)	**13 780 (29,820)**	9130 (19,650)	**11 360 (24,640)**	6780 (14,560)
Ground Line			**18 470 (42,920)**	**18 470** (41,770)	**18 780 (40,650)**	12 390 (26,660)	**14 460 (31,300)**	8790 (18,910)	11 300 (24,280)	6580 (14,130)
–1.5 m (–5 ft.)	**11 930 (26,990)**	**11 930 (26,990)**	**23,290 (53,590)**	19 300 (41,430)	**18 770 (40,650)**	12 150 (26,140)	**14 520 (31,410)**	8610 (18,510)	11 180 (24,040)	6470 (13,910)
–3.0 m (–10 ft.)	**18 590 (42,050)**	**18 590 (42,050)**	**23 450 (50,810)**	19 420 (41,700)	**17 740 (38,340)**	12 150 (26,130)	**13 750 (29,620)**	8590 (18,480)	**10 530**	6510
–4.5 m (–15 ft.)	**26 700 (57,600)**	**26 700 (57,600)**	**20 090 (43,280)**	19 780 (42,510)	**15 400 (33,050)**	12 350 (26,600)	**11 620 (24,590)**	8770 (18,920)		
–6.0 m (–20 ft.)			**14 470 (30,450)**	**14 470 (30,450)**	**10 680 (21,930)**	**10 680 (21,930)**				
With 7.0-m (23 ft. 0 in.) boom, 4.9-m (16 ft. 1 in.) arm, 1.4-m³ (1.8 cu. yd.) bucket, and 900-mm (36 in.) triple semi-grouser shoes										
4.5 m (15 ft.)							**10 670 (23,180)**	**10 670 (23,180)**	**9690**	8140
3.0 m (10 ft.)			**19 780 (42,530)**	**19 780 (42,530)**	**14 760 (31,890)**	**14 760 (31,890)**	**12 130 (26,310)**	10 500 (22,610)	**10 540 (22,920)**	7820 (16,820)
1.5 m (5 ft.)			**24 060 (51,890)**	21 610 (46,540)	**17 130 (37,040)**	13 950 (30,080)	**13 530 (29,330)**	9970 (21,470)	**11 380 (24,710)**	7500 (16,140)
Ground Line	**7330 (16,700)**	**7330 (16,700)**	**21 020 (48,940)**	20 500 (44,090)	**18 790 (40,670)**	13 260 (28,560)	**14 610 (31,660)**	9530 (20,530)	11 960 (25,730)	7230 (15,560)
–1.5 m (–5 ft.)	**10 850 (24,550)**	**10 850 (24,550)**	**22 090 (50,830)**	20 000 (42,970)	**19 510 (42,260)**	12 850 (27,660)	**15 160 (32,830)**	9240 (19,900)	11 760 (25,290)	7040 (15,160)
–3.0 m (–10 ft.)	**15 440 (34,920)**	**15 440 (34,920)**	**25 950 (56,210)**	19 880 (42,710)	**19 250 (41,670)**	12 680 (27,290)	**15 020 (32,470)**	9100 (19,610)	11 670 (25,120)	6960 (15,000)
–4.5 m (–15 ft.)	**21 400 (48,560)**	**21 400 (48,560)**	**23 700 (51,190)**	20 030 (43,060)	**17 910 (38,620)**	12 720 (27,390)	**13 950 (29,990)**	9130 (19,680)	**10 790 (22,850)**	7030 (15,180)
–6.0 m (–20 ft.)	**27 000 (57,750)**	**27 000 (57,750)**	**19 750 (42,260)**	**19 750 (42,260)**	**15 050 (32,060)**	12 970 (27,990)	**11 290 (23,630)**	9360 (20,240)		
With 6.3-m (20 ft. 7 in.) ME boom, 2.9-m (9 ft. 6 in.) ME arm, 2.5-m³ (3.3 cu. yd.) bucket, and 900-mm (36 in.) triple semi-grouser shoes										
7.5 m (25 ft.)					**12 480 (27,350)**	**12 480 (27,350)**				
6.0 m (20 ft.)					**13 440 (29,190)**	**13 440 (29,190)**	**12 060 (24,660)**	10 060 (21,530)		
4.5 m (15 ft.)			**19 860 (42,650)**	**19 860 (42,650)**	**15 220 (32,910)**	14 420 (31,040)	**12 810 (27,860)**	9820 (21,080)		
3.0 m (10 ft.)			**24 020 (51,680)**	21 400 (46,170)	**17 200 (37,160)**	13 630 (29,350)	**13 780 (29,880)**	9460 (20,340)		
1.5 m (5 ft.)			**26 230 (56,710)**	20 130 (43,340)	**18 660 (40,370)**	12 950 (27,890)	**14 550 (31,510)**	9120 (19,600)		
Ground Line			**26 140 (56,720)**	19 690 (42,310)	**19 120 (41,420)**	12 560 (27,020)	**14 750 (31,910)**	8890 (19,120)		
–1.5 m (–5 ft.)	**22 400 (50,640)**	**22 400 (50,640)**	**24 450 (53,060)**	19 720 (42,360)	**18 360 (39,720)**	12 450 (26,790)	**13 960 (30,010)**	8840 (19,020)		
–3.0 m (–10 ft.)	**27 190 (59,020)**	**27 190 (59,020)**	**21 060 (45,540)**	20 070 (43,130)	**15 940 (34,230)**	12 630 (27,190)				

Buckets 470G LC

A full line of buckets is offered to meet a wide variety of applications. Digging forces are with power boost. Tooth selection includes 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	
	mm	in.	m^3	cu. yd.	kg	lb.
General Purpose	1372	54	1.76	2.3	1006	2,217
Heavy Duty	1067	42	1.41	1.8	1418	3,127
	1219	48	1.64	2.1	1507	3,323
	1372	54	1.87	2.4	1624	3,581
	1524	60	2.09	2.7	1712	3,774
	1676	66	2.30	3.0	1737	3,828
	1829	72	2.52	3.3	1844	4,065
Truck Loading	1829	72	3.20	4.2	1970	4,344
Heavy Duty High Capacity	1219	48	2.06	2.7	1802	3,973
	1372	54	2.34	3.1	2033	4,482
	1524	60	2.62	3.4	2329	5,136
	1676	66	2.91	3.8	2271	5,007
	1829	72	3.20	4.2	2663	5,870

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.

470G	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
●	Fuel shutoff valve
●	Full-flow oil filter
●	Turbocharger with charge air cooler
●	Cool-on-demand hydraulic-driven fan
●	500-hour engine-oil-change interval
●	70% (35 deg.) off-level capability
●	Hydraulic fan reverser
▲	Engine air precleaner
	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
●	4,000-hour hydraulic-oil-change interval
●	Control pattern-change valve
▲	Auxiliary hydraulic lines
▲	Auxiliary pilot and electric controls
▲	Hydraulic filter restriction indicator kit
▲	Load-lowering control device
▲	Single-pedal propel control
	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 (3)
●	Sealed and lubricated track chain
●	Track-frame undercover seat screws
▲	Track-frame undercover
▲	Triple semi-grouser shoes, 750 mm (30 in.)
▲	Triple semi-grouser shoes, 900 mm (36 in.)

470G	Upperstructure
●	Right-hand and left-hand mirrors
●	Vandal locks with ignition key: Cab door / Fuel cap / Service doors / Toolbox
●	Debris screen in side panel
●	Service platform, left side
●	Remote-mounted engine oil and fuel filters
▲	Counterweight-removal system
	Front Attachments
●	Centralized lubrication system
●	Dirt seals on all bucket pins
●	No-boom-arm option
▲	Boom, 7.0 m (23 ft. 0 in.)
▲	Boom, mass excavating (ME), 6.3 m (20 ft. 7 in.)
▲	Arm, ME, 2.9 m (9 ft. 6 in.)
▲	Arm, 3.4 m (11 ft. 2 in.)
▲	Arm, 3.9 m (12 ft. 10 in.)
▲	Arm, 4.9 m (16 ft. 1 in.)
▲	Buckets: 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/heater/ pressurizer
●	Built-in Operator's Manual storage compartment and manual
●	Cell-phone power outlet, 12 volt, 60 watt, 5 amp
●	Coat hook
●	Standard cloth seat, mechanical suspension, with 100-mm (4 in.) adjustable armrests
▲	Deluxe heated cloth seat, air suspension, with 100-mm (4 in.) adjustable armrests
▲	Premium thermally heated and actively cooled leather seat
●	Retractable seat belt, 76 mm (3 in.) (conforms to SAE J368)
●	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
●	Interior light

470G	Operator's Station *(continued)*
●	Large cup holder
●	Machine Information Center (MIC)
●	Mode selectors (illuminated): Power modes (3) / Travel modes (2 with automatic shift) / Work mode (1) / Boom mode
●	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
●	Propel pedals and hand levers
●	SAE 2-lever control pattern
●	Tinted glass
●	Transparent tinted overhead hatch
●	Hot/cold beverage compartment
●	USB charging port
▲	Protection screens for cab front, rear, and side
▲	Window vandal-protection covers
	Grade Management (factory installed)
▲	2D Grade Guidance
▲	3D Grade Guidance
▲	SmartGrade™ Ready 2D grade control
▲	SmartGrade 3D grade control
	Electrical
●	100-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
▲	Cab extension wiring harness
	Lights
●	Work lights: Halogen / 2 mounted on boom / 1 mounted on frame / 2 mounted on top of cab
●	LED light kit: 2 lights mounted on cab front / 1 mounted on cab rear / 1 mounted on boom / 1 mounted in toolbox

While general information, pictures, and descriptions are provided, some illustrations and text may include product options and accessories NOT AVAILABLE in all regions, and in some countries products and accessories may require modifications or additions to ensure compliance with the local regulations of those countries.

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 2000-m (6,560 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 a unit with 1370-mm (54 in.) bucket, 900-mm (36 in.) triple semi-grouser shoes, 8400-kg (18,519 lb.) counterweight, full fuel tank, and 79-kg (175 lb.) operator.

SAFETY live with it

JohnDeere.com

DKAX470G Litho in U.S.A. (21-07)