

G-SERIES
EXCAVATORS



JOHN DEERE

670G LC / 870G LC



**MIGHTY TO
THE MAX**



***MORE THAN
MUSCLE.***



+



RELIABLE

PRODUCTIVE



A large John Deere excavator bucket is shown in the process of dumping a massive pile of brown soil. The bucket is dark and metallic, with some dirt splatters. In the background, the cab of the excavator is visible, featuring the John Deere logo and a worker wearing a hard hat and safety vest. The scene is set outdoors under a clear sky.

EXPECT BIG THINGS.

When the task demands a serious excavator to get things done, get a John Deere G-Series. With the highly productive hydraulic flow of their EPA Final Tier 4 (FT4)/EU Stage IV diesel engines, our 670G LC and 870G LC deliver faster work cycles to move more material on a gallon of fuel. That's only one customer-inspired way these mighty excavators do more to help your operation get more done.

WORK THE WAY YOU WANT TO

LITTLE THINGS ARE BIG.

We've packed our largest excavators with some pretty important details to help you maximize your workday — and see some big-time machine performance.

Fuel savers

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

More performance

New Powerwise Plus™ technology provides reliable, fuel-efficient power when and where you need it.

The power of choice

Choose from a variety of track widths, arm lengths, buckets, and other productivity-boosting options.



AUTO-IDLE AND AUTO SHUTDOWN

HELP CONSERVE FUEL





STANDOUT FEATURE

POWERWISE PLUS™ **TECHNOLOGY.**

SMART CHOICE

DON'T EVEN THINK ABOUT IT.

The 670G LC and 870G LC aren't all brawn and no brains. Smart features like our Powerwise Plus engine/hydraulic-management system with multiple productivity modes enable you to put that extra ability to use and offer the same kind of smooth precision that operators have come to expect from the complete line of Deere excavators.



PRESS
POWER
BOOST
FOR MORE MUSCLE



Balance of power

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

Take on more

Their exceptional swing torque, lift capacity, and arm and bucket digging forces provide generous muscle for mass excavating or hot truck loading.

Dig in

When conditions call for a little extra, simply press the power-boost button on the right-hand control and muscle through.

Precision mechanics

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



DEERE

AT HOME IN THE CAB

A NEW TWIST ON OPERATING EASE.

Now it's easier than ever for your operators to "dial things up." Refined LCD monitor employs a turn-and-tap rotary control that provides quick access to an abundance of performance and convenience features and functions. Operators are sure to appreciate the quiet and spacious cab, unsurpassed all-around visibility, and numerous other amenities that provide what they need to do their best work.

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. Plus much more.

Clearly comfortable

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

Expansive visibility

With a wide expanse of front, side, and overhead glass and mirrors, visibility to the sides and rear is virtually unobstructed, even with the increased under-the-hood space requirements of FT4/Stage IV components.

Light things up

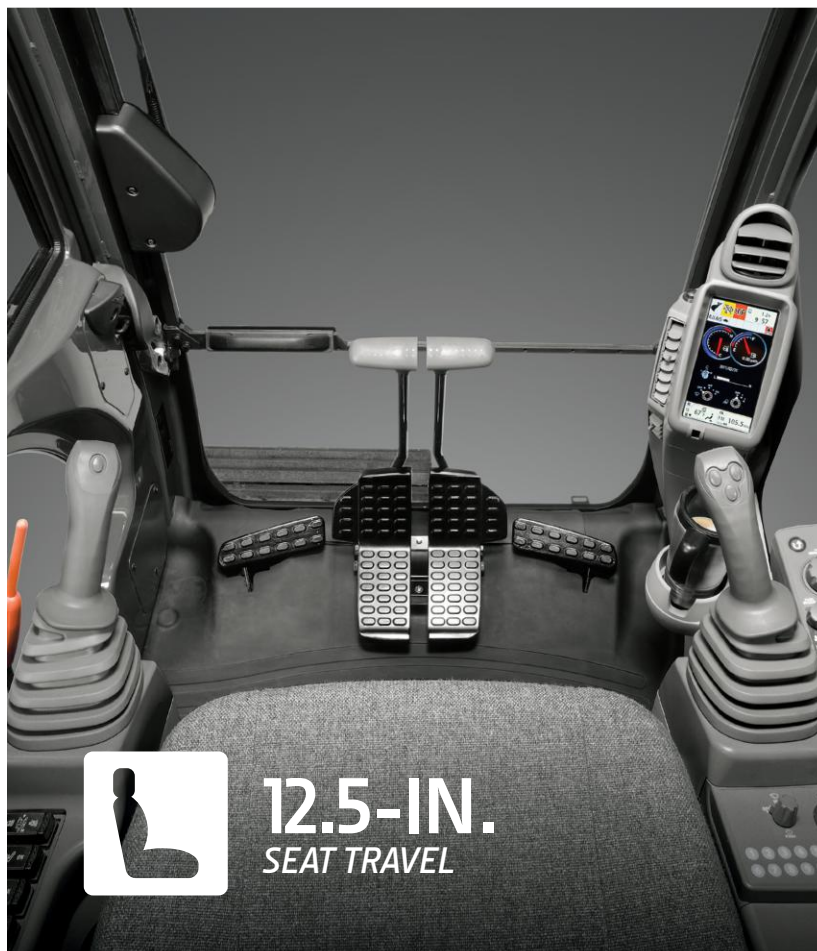
Standard boom/frame lights and cab/boom-mounted options provide illumination to extend your workday beyond daytime hours. Standard cab lights and right-hand boom light further dispel the dark when needed.

At your fingertips

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.

We've got your back

Sculpted and heated air-suspension high-back seat with 12.5 in. of travel slides with or independent of the joystick console, so it won't cramp an operator's style.



PROVEN RELIABILITY

*NOTHING RUNS LIKE A DEERE,
BECAUSE NOTHING IS BUILT LIKE ONE.*

Our 670G LC and 870G LC Excavators employ many of the same job-proven digging structures and hydraulic, electrical, and undercarriage components as the rest of the rugged John Deere G-Series Excavator lineup. When you know how they're built, you'll run these Deere.

Become a fan

Highly efficient, hydraulically driven fans run only as fast as needed, reducing noise, fuel consumption, and operating costs. Reversing feature back-blows cooler cores to keep them clean at the touch of a button.

Tough enough

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.

Durable design

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

Underneath it all

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

FT4 engine technology

To meet stringent FT4/Stage IV standards, we built on our EPA Interim Tier 4 (IT4)/EU Stage IIIB solution to deliver the best combination of performance, efficiency, and reliability without sacrificing power or torque. Our field-proven technology is simple, fluid efficient, fully integrated, and fully supported. It employs field-proven cooled exhaust gas recirculation, a diesel oxidation catalyst, and selective catalytic reduction. Improved piston design allows particulate matter to be burned in the cylinder, so there's no need for a diesel particulate filter, saving service time and lowering operating costs.



REVERSING
FAN FEATURE





IT'S NO BIG DEAL

HASSLE-FREE MAINTENANCE.

Handy DEF access

Diesel exhaust fluid (DEF) can be conveniently filled when refueling due to its large and accessible tank.

Refill 'er up

Large fuel tanks and 500- and 4,000-hour engine and hydraulic oil-service intervals decrease downtime for routine maintenance. Fluid-sample ports help speed preventative maintenance and troubleshooting.

Get a grip

Upperstructure handrails provide multiple points of contact when accessing the engine compartment. Slip-resistant surfaces help improve stability. A handy walk-through door on the 870G LC puts operators within easy reach of all service areas.



Get valuable insight with
JOHN DEERE WORKSIGHT™

Ultimate John Deere WorkSight is an exclusive suite of telematics solutions that increases uptime while lowering operating costs. At its heart, JDLink™ 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 and record performance data without a trip to the jobsite.

Keep downtime down with
JOHN DEERE ULTIMATE UPTIME

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, fluid sampling, response-time guarantees, and more.





670G LC SPECIFICATIONS

Engine		670G LC	
Manufacturer and Model	Isuzu 6WGI-FT4		
Non-Road Emission Standard	EPA Final Tier 4/EU Stage IV		
Net Rated Power (ISO 9249)	345 kW (463 hp) at 1,800 rpm		
Cylinders	6		
Displacement	15.7 L (957 cu. in.)		
Off-Level Capacity	70% (35 deg.)		
Aspiration	Turbocharged, air-to-air charge-air cooler		
Cooling			
2 cool-on-demand hydraulic-driven, suction-type fans with remote-mounted drive			
Powertrain			
2-speed propel with AutoShift			
Maximum Travel Speed			
Low	3.6 km/h (2.2 mph)		
High	5.2 km/h (3.2 mph)		
Drawbar Pull	46 115 kg (101,666 lb.)		
Hydraulics			
Open center, load sensing; in-cab mode selectors, illuminated: power modes (3), travel modes (2), and work modes (2)			
Main Pumps		2 variable-displacement pumps	
Maximum Rated Flow	489 L/m (129 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	34 300 kPa (4,975 psi)		
Swing	29 400 kPa (4,264 psi)		
Power Boost	34 300 kPa (4,975 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)	191 mm (7.5 in.)	130 mm (5.1 in.)	1806 mm (71 in.)
Arm (1)	201 mm (7.9 in.)	140 mm (5.5 in.)	2164 mm (85 in.)
Bucket (1)	180 mm (7.1 in.)	130 mm (5.1 in.)	1555 mm (61 in.)
Electrical			
Number of Batteries (12 volt)	2		
Battery Capacity	500 CCA		
Alternator Rating	50 amp		
Work Lights	5 halogen (1 mounted on frame, 2 mounted on boom, and 2 mounted on top of cab)		
Undercarriage			
Planetary final drives with axial-piston motors			
Rollers (each side)			
Carrier	3		
Track	8		
Shoes, Double-Bar Grousers (each side)	47		
Track			
Adjustment	Hydraulic		
Guides	Front and center		
Chain	Sealed and lubricated		
Ground Pressure			
Double-Bar Grouser Shoes			
650 mm (26 in.)	104.2 kPa (15.1 psi)		
750 mm (30 in.)	90.3 kPa (13.1 psi)		
900 mm (36 in.)	75.3 kPa (10.9 psi)		

670G LC SPECIFICATIONS



Swing Mechanism	670G LC
Speed	9.1 rpm
Torque	206 000 Nm (151,938 lb.-ft.)

Serviceability

Refill Capacities

Fuel Tank	900 L (238 gal.)
Cooling System	76 L (20.1 gal.)
Engine Oil with Filter	57 L (15.1 gal.)
Hydraulic Tank	380 L (100.4 gal.)
Hydraulic System	750 L (198.1 gal.)
Gearbox	
Swing (each)	10.5 L (11.1 qt.)
Travel (each)	16 L (16.9 qt.)
Pump Drive	6.2 L (6.6 qt.)
Diesel Exhaust Fluid (DEF) Tank	95 L (25.1 gal.)

Operating Weights

With full fuel tank; 79-kg (175 lb.) operator; 3.09-m³ (4.04 cu. yd.), 1370-mm (54 in.), 3126-kg (6,892 lb.) bucket; 4.2-m (13 ft. 9 in.) arm; 9800-kg (21,605 lb.) counterweight; counterweight-removal device; and 900-mm (36 in.) double-bar grouser shoes

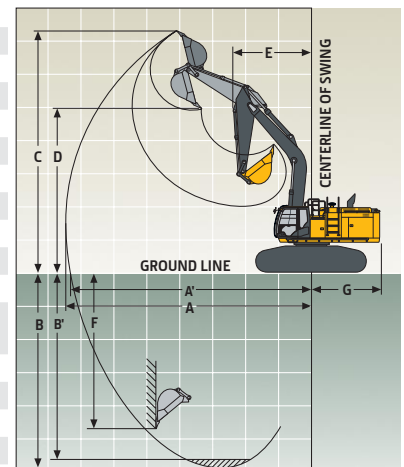
SAE Operating Weight	69 900 kg (154,103 lb.)
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Component Weights

Undercarriage with Double-Bar Grouser Shoes	
650 mm (26 in.)	26 953 kg (59,421 lb.)
750 mm (30 in.)	27 333 kg (60,259 lb.)
900 mm (36 in.)	28 353 kg (62,508 lb.)
1-Piece Boom (with arm cylinder)	
7.8 m (25 ft. 7 in.)	6560 kg (14,462 lb.)
6.8-m (22 ft. 4 in.) Mass Excavating (ME)	6130 kg (13,514 lb.)
Arm with Bucket Cylinder and Linkage	
3.6 m (11 ft. 10 in.)	3640 kg (8,025 lb.)
4.2 m (13 ft. 9 in.)	3840 kg (8,466 lb.)
5.3 m (17 ft. 5 in.)	3620 kg (7,981 lb.)
2.9-m (9 ft. 6 in.) ME	3715 kg (8,190 lb.)
Boom-Lift Cylinders (2), Total Weight	1135 kg (2,502 lb.)
Counterweight with Standard Mainframe	10 400 kg (22,928 lb.)

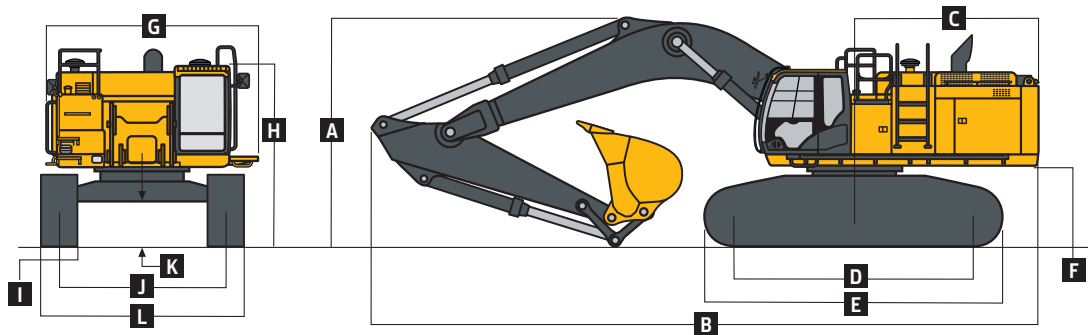
Operating Dimensions

Boom Length	7.8 m (25 ft. 7 in.)	7.8 m (25 ft. 7 in.)	7.8 m (25 ft. 7 in.)	6.8-m (22 ft. 4 in.) ME
Arm Length	3.6 m (11 ft. 10 in.)	4.2 m (13 ft. 9 in.)	5.3 m (17 ft. 5 in.)	2.9 m (9 ft. 6 in.) ME
Arm Digging Force				
SAE	247 kN (55,528 lb.)	224 kN (50,357 lb.)	192 kN (43,163 lb.)	297 kN (66,768 lb.)
ISO	255 kN (57,326 lb.)	231 kN (51,931 lb.)	196 kN (44,063 lb.)	306 kN (68,792 lb.)
Bucket Digging Force				
SAE	290 kN (65,195 lb.)	290 kN (65,195 lb.)	245 kN (55,078 lb.)	332 kN (74,637 lb.)
ISO	324 kN (72,838 lb.)	324 kN (72,838 lb.)	277 kN (62,272 lb.)	369 kN (82,954 lb.)
A Maximum Reach	13.25 m (43 ft. 6 in.)	13.85 m (45 ft. 5 in.)	14.74 m (48 ft. 4 in.)	11.80 m (38 ft. 9 in.)
A' Maximum Reach at Ground Level	13.00 m (42 ft. 8 in.)	13.61 m (44 ft. 8 in.)	14.51 m (47 ft. 7 in.)	11.50 m (37 ft. 9 in.)
B Maximum Digging Depth	8.53 m (28 ft. 0 in.)	9.15 m (30 ft. 0 in.)	10.03 m (32 ft. 11 in.)	7.12 m (23 ft. 4 in.)
B' Maximum Digging Depth at 2.44-m (8 ft. 0 in.) Flat Bottom	8.40 m (27 ft. 7 in.)	9.03 m (29 ft. 8 in.)	9.92 m (32 ft. 7 in.)	6.97 m (22 ft. 10 in.)
C Maximum Cutting Height	11.92 m (39 ft. 1 in.)	12.24 m (40 ft. 2 in.)	12.65 m (41 ft. 6 in.)	11.92 m (39 ft. 1 in.)
D Maximum Dumping Height	8.05 m (26 ft. 5 in.)	8.33 m (27 ft. 4 in.)	9.17 m (30 ft. 1 in.)	7.33 m (24 ft. 1 in.)
E Minimum Swing Radius	5.78 m (19 ft. 0 in.)	5.76 m (18 ft. 11 in.)	5.70 m (18 ft. 8 in.)	5.24 m (17 ft. 2 in.)
F Maximum Vertical Wall	7.38 m (24 ft. 3 in.)	8.18 m (26 ft. 10 in.)	9.17 m (30 ft. 1 in.)	5.28 m (17 ft. 4 in.)
G Tail-Swing Radius	4.02 m (13 ft. 2 in.)	4.02 m (13 ft. 2 in.)	4.02 m (13 ft. 2 in.)	4.02 m (13 ft. 2 in.)



670G LC

Machine Dimensions		670G LC			
Arm Length		3.6 m (11 ft. 10 in.)	4.2 m (13 ft. 9 in.)	5.3 m (17 ft. 5 in.)	2.9 m (9 ft. 6 in.) ME with 6.8-m (22 ft. 4 in.) ME Boom
A	Overall Height with Arm	4.46 m (14 ft. 8 in.)	4.98 m (16 ft. 4 in.)	5.28 m (17 ft. 4 in.)	4.96 m (16 ft. 3 in.)
B	Overall Length with Arm	13.40 m (44 ft. 0 in.)	13.40 m (44 ft. 0 in.)	13.25 m (43 ft. 6 in.)	12.42 m (40 ft. 9 in.)
C	Rear-End Length/Swing Radius	3.91 m (12 ft. 10 in.)	3.91 m (12 ft. 10 in.)	3.91 m (12 ft. 10 in.)	3.91 m (12 ft. 10 in.)
D	Distance Between Idler/Sprocket Centerline	4.59 m (15 ft. 1 in.)	4.59 m (15 ft. 1 in.)	4.59 m (15 ft. 1 in.)	4.59 m (15 ft. 1 in.)
E	Undercarriage Length	5.84 m (19 ft. 2 in.)	5.84 m (19 ft. 2 in.)	5.84 m (19 ft. 2 in.)	5.84 m (19 ft. 2 in.)
F	Counterweight Clearance	1.53 m (5 ft. 0 in.)	1.53 m (5 ft. 0 in.)	1.53 m (5 ft. 0 in.)	1.53 m (5 ft. 0 in.)
G	Upperstructure Width	4.09 m (13 ft. 5 in.)	4.09 m (13 ft. 5 in.)	4.09 m (13 ft. 5 in.)	4.09 m (13 ft. 5 in.)
H	Cab Height	3.55 m (11 ft. 8 in.)			
I	Track Width with Double-Bar Grouser Shoes	650 mm (26 in.) / 750 mm (30 in.) / 900 mm (36 in.)			650 mm (26 in.) / 750 mm (30 in.) / 900 mm (36 in.)
J	Track Gauge with 900-mm (36 in.) Double-Bar Grouser Shoes				
	Operating Position	3.30 m (10 ft. 10 in.)	3.30 m (10 ft. 10 in.)	3.30 m (10 ft. 10 in.)	3.30 m (10 ft. 10 in.)
	Transport Position	2.82 m (9 ft. 3 in.)	2.82 m (9 ft. 3 in.)	2.82 m (9 ft. 3 in.)	2.82 m (9 ft. 3 in.)
K	Ground Clearance	0.86 m (34 in.)	0.86 m (34 in.)	0.86 m (34 in.)	0.86 m (34 in.)
L	Width over Track with 900-mm (36 in.) Double-Bar Grouser Shoes				
	Operating Position	4.20 m (13 ft. 9 in.)	4.20 m (13 ft. 9 in.)	4.20 m (13 ft. 9 in.)	4.20 m (13 ft. 9 in.)
	Transport Position	3.73 m (12 ft. 3 in.)	3.73 m (12 ft. 3 in.)	3.73 m (12 ft. 3 in.)	3.73 m (12 ft. 3 in.)

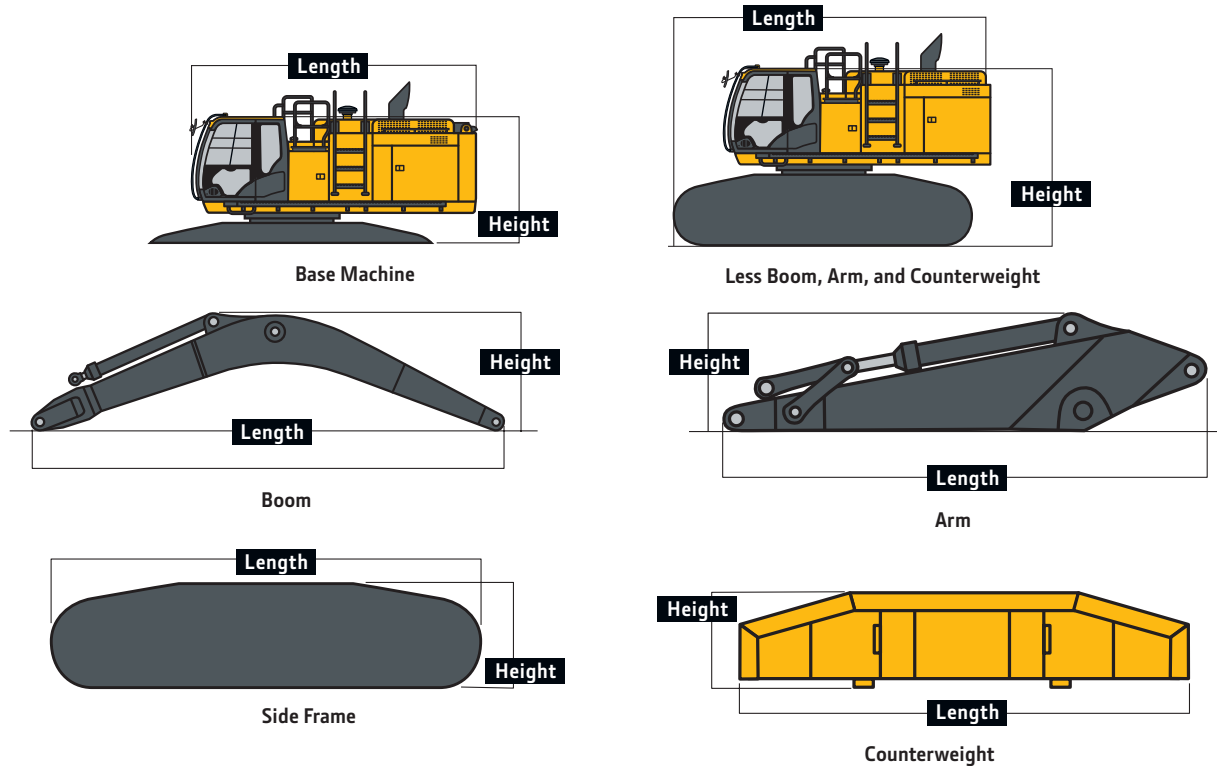


Packing Dimensions and Weights for Transportation				
	Length	Height	Overall Width	Weight
Base Machine (without front attachment and side frame)*	5.68 m (18 ft. 8 in.)	2.77 m (9 ft. 1 in.)	3.42 m (11 ft. 3 in.)	21 400 kg (47,179 lb.)
Side Frame (each)				
With 650-mm (26 in.) Shoes	5.85 m (19 ft. 2 in.)	1.45 m (4 ft. 9 in.)	1.25 m (4 ft. 1 in.)	10 400 kg (22,928 lb.)
With 750-mm (30 in.) Shoes	5.85 m (19 ft. 2 in.)	1.45 m (4 ft. 9 in.)	1.25 m (4 ft. 1 in.)	10 600 kg (23,369 lb.)
With 900-mm (36 in.) Shoes	5.85 m (19 ft. 2 in.)	1.45 m (4 ft. 9 in.)	1.32 m (4 ft. 4 in.)	11 100 kg (24,471 lb.)
Counterweight, Standard	3.36 m (11 ft. 0 in.)	1.55 m (5 ft. 1 in.)	0.59 m (23 in.)	11 100 kg (24,471 lb.)
Boom				
6.8 m (22 ft. 4 in.)	7.14 m (23 ft. 5 in.)	2.51 m (8 ft. 3 in.)	1.39 m (4 ft. 7 in.)	6110 kg (13,470 lb.)
7.8 m (25 ft. 7 in.)	8.13 m (26 ft. 8 in.)	2.33 m (7 ft. 8 in.)	1.39 m (4 ft. 7 in.)	6560 kg (14,462 lb.)
Arm				
2.9 m (9 ft. 6 in.)	4.37 m (14 ft. 4 in.)	1.69 m (5 ft. 7 in.)	0.80 m (32 in.)	3715 kg (8,190 lb.)
3.6 m (11 ft. 10 in.)	5.11 m (16 ft. 9 in.)	1.44 m (4 ft. 9 in.)	0.80 m (32 in.)	3640 kg (8,025 lb.)
4.2 m (13 ft. 9 in.)	5.71 m (18 ft. 9 in.)	1.39 m (4 ft. 7 in.)	0.80 m (32 in.)	3840 kg (8,466 lb.)
5.3 m (17 ft. 5 in.)	6.73 m (22 ft. 1 in.)	1.26 m (4 ft. 2 in.)	0.80 m (32 in.)	3620 kg (7,981 lb.)
Base Machine (without front attachment)*				
With 650-mm (26 in.) Shoes	6.70 m (22 ft. 0 in.)	3.68 m (12 ft. 1 in.) / 3.76 m (12 ft. 4 in.) w/o exhaust stack	3.48 m (11 ft. 5 in.)	44 000 kg (97,003 lb.)
With 750-mm (30 in.) Shoes	6.70 m (22 ft. 0 in.)	3.68 m (12 ft. 1 in.) / 3.76 m (12 ft. 4 in.) w/o exhaust stack	3.58 m (11 ft. 9 in.)	44 400 kg (97,885 lb.)
With 900-mm (36 in.) Shoes	6.70 m (22 ft. 0 in.)	3.68 m (12 ft. 1 in.) / 3.76 m (12 ft. 4 in.) w/o exhaust stack	3.73 m (12 ft. 3 in.)	45 400 kg (100,090 lb.)

*Steps on the track frame, exhaust stack, and side hydraulic oil tank; handrails on the upper battery box; upper fuel tank; and side hydraulic oil tank must be removed.

Packing Dimensions and Weights for Transportation (continued)

670G LC



Lift Capacities

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

LOAD POINT HEIGHT	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.)		10.5 m (35 ft.)	
	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
<i>With 7.8-m (25 ft. 7 in.) boom, 4.2-m (13 ft. 9 in.) arm, 2.5-m³ (3.3 cu. yd.) bucket, and 650-mm (26 in.) double-bar grouser shoes</i>												
7.5 m (25 ft.)									10 880 (23,790)	10 880 (23,790)	6780	6780
6.0 m (20 ft.)									11 700 (25,460)	11 700 (25,460)	10 070 (20,250)	8980 (19,170)
4.5 m (15 ft.)					18 420 (40,750)	18 420 (40,750)	14 850 (32,080)	14 850 (32,080)	12 770 (27,710)	11 620 (24,970)	11 490 (25,020)	8760 (18,730)
3.0 m (10 ft.)					21 780 (46,870)	21 380 (46,090)	16 790 (36,260)	15 010 (32,310)	13 940 (30,190)	11 100 (23,860)	12 150 (26,400)	8450 (18,120)
1.5 m (5 ft.)					24 280 (52,390)	20 160 (43,420)	18 420 (39,820)	14 250 (30,680)	14 970 (32,420)	10 630 (22,850)	12 040 (25,850)	8170 (17,520)
Ground Line			14 150 (32,800)	14 150 (32,800)	25 550 (55,260)	19 440 (41,810)	19 470 (42,130)	13 720 (29,510)	15 170 (32,610)	10 270 (22,070)	11 800 (25,360)	7950 (17,050)
-1.5 m (-5 ft.)	10 800 (24,430)	10 800 (24,430)	19 890 (45,600)	19 890 (45,600)	25 670 (55,570)	19 120 (41,090)	19 800 (42,840)	13 420 (28,850)	14 940 (32,110)	10 050 (21,610)	11 680 (25,120)	7830 (16,820)
-3.0 m (-10 ft.)	17 780 (40,170)	17 780 (40,170)	27 900 (63,880)	27 900 (63,880)	24 710 (53,470)	19 090 (41,010)	19 270 (41,640)	13 340 (28,680)	14 880 (32,010)	10 000 (21,520)		
-4.5 m (-15 ft.)	26 090 (59,140)	26 090 (59,140)	29 340 (63,390)	29 340 (63,390)	22 540 (48,600)	19 310 (41,510)	17 630 (37,850)	13 480 (29,010)	13 570 (28,680)	10 180 (21,960)		
-6.0 m (-20 ft.)			23 970 (51,240)	23 970 (51,240)	18 550 (39,460)	18 550 (39,460)	13 910 (28,970)	13 910 (28,970)				

Lift Capacities (continued)

670G 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).

LOAD POINT HEIGHT	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.)		10.5 m (35 ft.)	
	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
With 6.8-m (22 ft. 4 in.) ME boom, 2.9-m (9 ft. 6 in.) ME arm, 3.5-m³ (4.6 cu. yd.) bucket, and 650-mm (26 in.) double-bar grouser shoes												
7.5 m (25 ft.)							14 400 (31,610)	14 400 (31,610)				
6.0 m (20 ft.)					17 530 (37,890)	17 530 (37,890)	15 280 (33,220)	15 280 (33,220)				
4.5 m (15 ft.)					20 470 (44,110)	20 470 (44,110)	16 700 (36,200)	15 250 (32,780)	14 650 (31,940)	10 920 (23,330)		
3.0 m (10 ft.)					23 430 (50,520)	21 030 (45,280)	18 260 (39,520)	14 580 (31,340)	15 370 (33,390)	10 630 (22,790)		
1.5 m (5 ft.)					25 430 (54,940)	20 100 (43,230)	19 480 (42,140)	14 020 (30,130)	15 260 (32,750)	10 330 (22,160)		
Ground Line					26 020 (56,320)	19 610 (42,140)	19 950 (43,140)	13 670 (29,370)	15 070 (32,390)	10 150 (21,820)		
-1.5 m (-5 ft.)			33 520 (72,780)	32 190 (68,930)	25 150 (54,430)	19 490 (41,870)	19 300 (41,640)	13 560 (29,160)				
-3.0 m (-10 ft.)	34 290 (77,980)	34 290 (77,980)	29 560 (63,980)	29 560 (63,980)	22 510 (48,500)	19 710 (42,350)	16 670 (35,280)	13 790 (29,730)				
-4.5 m (-15 ft.)			22 630 (48,280)	22 630 (48,280)	16 490 (34,300)	16 490 (34,300)						
With 7.8-m (25 ft. 7 in.) boom, 4.2-m (13 ft. 9 in.) arm, 2.5-m³ (3.3 cu. yd.) bucket, and 750-mm (30 in.) double-bar grouser shoes												
7.5 m (25 ft.)									10 880 (23,790)	10 880 (23,790)	6780 (14,950)	6780 (14,950)
6.0 m (20 ft.)									11 700 (25,460)	11 700 (25,460)	10 070 (20,250)	9040 (19,290)
4.5 m (15 ft.)			(54,750)	(54,750)	18 420 (39,600)	18 420 (39,600)	14 850 (32,080)	14 850 (32,080)	12 770 (27,710)	11 690 (25,120)	11 490 (25,020)	8810 (18,860)
3.0 m (10 ft.)					21 780 (46,870)	21 500 (46,340)	16 790 (36,260)	15 090 (32,500)	13 940 (30,190)	11 170 (24,010)	12 150 (26,400)	8510 (18,240)
1.5 m (5 ft.)					24 280 (52,390)	20 280 (43,670)	18 420 (39,820)	14 340 (30,870)	14 970 (32,420)	10 700 (23,000)	12 120 (26,020)	8230 (17,640)
Ground Line			14 150 (32,800)	14 150 (32,800)	25 550 (55,260)	19 560 (42,070)	19 470 (42,130)	13 810 (29,700)	15 270 (32,810)	10 340 (22,220)	11 880 (25,520)	8000 (17,170)
-1.5 m (-5 ft.)	10 800 (24,430)	10 800 (24,430)	19 890 (45,600)	19 890 (45,600)	25 670 (55,570)	19 240 (41,340)	19 800 (42,840)	13 510 (29,040)	15 030 (32,310)	10 120 (21,760)	11 760 (25,280)	7890 (16,950)
-3.0 m (-10 ft.)	17 780 (40,170)	17 780 (40,170)	27 900 (63,880)	27 900 (63,880)	24 710 (53,470)	19 210 (41,270)	19 270 (41,640)	13 420 (28,870)	14 980 (32,210)	10 070 (21,670)		
-4.5 m (-15 ft.)	26 090 (59,140)	26 090 (59,140)	29 340 (63,390)	29 340 (63,390)	22 540 (48,600)	19 430 (41,770)	17 630 (37,850)	13 570 (29,200)	13 570 (28,680)	10 250 (22,110)		
-6.0 m (-20 ft.)			23 970 (51,240)	23 970 (51,240)	18 550 (39,460)	18 550 (39,460)	13 910 (28,970)	13 910 (28,970)				
With 7.8-m (25 ft. 7 in.) boom, 3.6-m (11 ft. 10 in.) arm, 2.9-m³ (3.8 cu. yd.) bucket, and 900-mm (36 in.) double-bar grouser shoes												
7.5 m (25 ft.)									11 740 (25,700)	11 740 (25,700)		
6.0 m (20 ft.)							13 980 (30,280)	13 980 (30,280)	12 460 (27,120)	12 100 (25,960)	8120 (17,740)	8120 (17,740)
4.5 m (15 ft.)					19 900 (42,760)	19 900 (42,760)	15 770 (34,070)	15 770 (34,070)	13 440 (29,160)	11 650 (25,020)	12 040 (23,250)	8770 (18,740)
3.0 m (10 ft.)					23 020 (49,550)	21 290 (45,900)	17 560 (37,930)	15 030 (32,380)	14 490 (31,390)	11 170 (24,010)	12 480 (26,790)	8530 (18,270)
1.5 m (5 ft.)					25 060 (54,100)	20 270 (43,630)	18 970 (41,010)	14 370 (30,930)	15 370 (33,280)	10 750 (23,110)	12 230 (26,260)	8290 (17,770)
Ground Line			12 940 (30,250)	12 940 (30,250)	25 790 (55,810)	19 740 (42,440)	19 740 (42,700)	13 930 (29,960)	15 440 (33,200)	10 450 (22,470)	12 050 (25,900)	8120 (17,440)
-1.5 m (-5 ft.)			21 020 (48,230)	21 020 (48,230)	25 390 (55,010)	19 560 (42,040)	19 730 (42,680)	13 720 (29,510)	15 280 (32,860)	10 300 (22,150)		
-3.0 m (-10 ft.)	20 320 (45,940)	20 320 (45,940)	31 010 (67,290)	31 010 (67,290)	23 940 (51,810)	19 650 (42,220)	18 790 (40,560)	13 730 (29,530)	14 830 (31,800)	10 340 (22,260)		
-4.5 m (-15 ft.)	30 660 (69,670)	30 660 (69,670)	27 020 (58,350)	27 020 (58,350)	21 160 (45,550)	19 980 (42,960)	16 490 (35,230)	13 980 (30,120)				
-6.0 m (-20 ft.)			20 650 (43,850)	20 650 (43,850)	16 030 (33,650)	16 030 (33,650)						

Lift Capacities (continued)

670G 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.)		10.5 m (35 ft.)	
LOAD POINT HEIGHT	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
With 7.8-m (25 ft. 7 in.) boom, 4.2-m (13 ft. 9 in.) arm, 2.5-m³ (3.3 cu. yd.) bucket, and 900-mm (36 in.) double-bar grouser shoes												
7.5 m (25 ft.)									10 880 (23,790)	10 880 (23,790)	6780 (19,630)	6780 (19,630)
6.0 m (20 ft.)									11 700 (25,460)	11 700 (25,460)	10 070 (20,250)	9190 (19,630)
4.5 m (15 ft.)			(54,750)	(54,750)	18 420 (39,600)	18 420 (39,600)	14 850 (32,080)	14 850 (32,080)	12 770 (27,710)	11 880 (25,530)	11 490 (25,020)	8970 (19,200)
3.0 m (10 ft.)					21 780 (46,870)	21 780 (46,870)	16 790 (36,260)	15 330 (33,010)	13 940 (30,190)	11 360 (24,420)	12 150 (26,400)	8670 (18,580)
1.5 m (5 ft.)					24 280 (52,390)	20 600 (44,360)	18 420 (39,820)	14 580 (31,380)	14 970 (32,420)	10 890 (23,410)	12 330 (26,480)	8380 (17,980)
Ground Line			14 150 (32,800)	14 150 (32,800)	25 550 (55,260)	19 880 (42,760)	19 470 (42,130)	14 040 (30,210)	15 530 (33,370)	10 530 (22,630)	12 090 (25,980)	8160 (17,510)
-1.5 m (-5 ft.)	10 800 (24,430)	10 800 (24,430)	19 890 (45,600)	19 890 (45,600)	25 670 (55,570)	19 560 (42,030)	19 800 (42,840)	13 740 (29,550)	15 290 (32,870)	10 310 (22,160)	11 970 (25,740)	8040 (17,290)
-3.0 m (-10 ft.)	17 780 (40,170)	17 780 (40,170)	27 900 (63,880)	27 900 (63,880)	24 710 (53,470)	19 530 (41,960)	19 270 (41,640)	13 660 (29,380)	15 240 (32,780)	10 260 (22,070)		
-4.5 m (-15 ft.)	26 090 (59,140)	26 090 (59,140)	29 340 (63,390)	29 340 (63,390)	22 540 (48,600)	19 750 (42,460)	17 630 (37,850)	13 800 (29,720)	13 570 (28,680)	10 430 (22,520)		
-6.0 m (-20 ft.)			23 970 (51,240)	23 970 (51,240)	18 550 (39,460)	18 550 (39,460)	13 910 (28,970)	13 910 (28,970)				
With 7.8-m (25 ft. 7 in.) boom, 5.3-m (17 ft. 5 in.) arm, 2.0-m³ (2.6 cu. yd.) bucket, and 900-mm (36 in.) double-bar grouser shoes												
9.0 m (30 ft.)											6010 (11,570)	6010 (11,570)
7.5 m (25 ft.)											7630 (16,040)	7630 (16,040)
6.0 m (20 ft.)									9950 (21,590)	9950 (21,590)	8900 (18,980)	8900 (18,980)
4.5 m (15 ft.)							13 440 (29,090)	13 440 (29,090)	11 860 (25,770)	11 860 (25,770)	10 430 (22,250)	9650 (20,710)
3.0 m (10 ft.)			27 860 (59,720)	27 860 (59,720)	19 700 (42,440)	19 700 (42,440)	15 610 (33,760)	15 610 (33,760)	13 210 (28,650)	12 110 (26,050)	11 670 (25,370)	9300 (19,950)
1.5 m (5 ft.)			17 980 (42,690)	17 980 (42,690)	22 900 (49,430)	21 780 (46,910)	17 610 (38,090)	15 430 (33,210)	14 490 (31,410)	11 560 (24,860)	12 480 (27,090)	8940 (19,200)
Ground Line			16 170 (37,320)	16 170 (37,320)	25 050 (54,170)	20 730 (44,600)	19 130 (41,410)	14 730 (31,690)	15 520 (33,630)	11 100 (23,860)	12 590 (27,050)	8640 (18,560)
-1.5 m (-5 ft.)	10 050 (22,700)	10 050 (22,700)	18 750 (42,960)	18 750 (42,960)	26 040 (56,370)	20 120 (43,260)	20 000 (43,310)	14 260 (30,670)	15 760 (33,880)	10 770 (23,150)	12 360 (26,570)	8430 (18,100)
-3.0 m (-10 ft.)	14 710 (33,200)	14 710 (33,200)	23 610 (53,970)	23 610 (53,970)	25 940 (56,150)	19 860 (42,690)	20 120 (43,520)	14 020 (30,160)	15 570 (33,480)	10 590 (22,770)	12 250 (26,370)	8330 (17,910)
-4.5 m (-15 ft.)	20 340 (46,010)	20 340 (46,010)	30 830 (70,610)	30 830 (69,460)	24 730 (53,430)	19 880 (42,750)	19 330 (41,700)	13 990 (30,120)	15 440 (33,190)	10 580 (22,790)	10 170 (22,360)	8400 (18,560)
-6.0 m (-20 ft.)	27 670 (62,900)	27 670 (62,900)	29 090 (62,560)	29 090 (62,560)	22 150 (47,560)	20 170 (43,410)	17 280 (36,920)	14 200 (30,600)	13 250 (27,800)	10 810 (23,360)		
-7.5 m (-25 ft.)			22 770 (48,120)	22 770 (48,120)	17 360 (36,410)	17 360 (36,410)	12 680 (26,410)	12 680 (26,410)				
With 6.8-m (22 ft. 4 in.) ME boom, 2.9-m (9 ft. 6 in.) ME arm, 3.5-m³ (4.6 cu. yd.) bucket, and 900-mm (36 in.) double-bar grouser shoes												
7.5 m (25 ft.)							14 400 (31,610)	14 400 (31,610)				
6.0 m (20 ft.)					17 530 (37,890)	17 530 (37,890)	15 280 (33,220)	15 280 (33,220)				
4.5 m (15 ft.)					20 470 (44,110)	20 470 (44,110)	16 700 (36,200)	15 580 (33,480)	14 650 (31,940)	11 180 (23,890)		
3.0 m (10 ft.)					23 430 (50,520)	21 470 (46,230)	18 260 (39,520)	14 900 (32,040)	15 370 (33,390)	10 880 (23,340)		
1.5 m (5 ft.)					25 430 (54,940)	20 540 (44,180)	19 480 (42,140)	14 340 (30,830)	15 610 (33,520)	10 590 (22,720)		
Ground Line					26 020 (56,320)	20 050 (43,090)	19 950 (43,140)	13 990 (30,070)	15 420 (33,150)	10 410 (22,380)		
-1.5 m (-5 ft.)			33 520 (72,780)	32 870 (70,400)	25 150 (54,430)	19 930 (42,820)	19 300 (41,640)	13 890 (29,860)				
-3.0 m (-10 ft.)	34 290 (77,980)	34 290 (77,980)	29 560 (63,980)	29 560 (63,980)	22 510 (48,500)	20 150 (43,300)	16 670 (35,280)	14 120 (30,440)				
-4.5 m (-15 ft.)			22 630 (48,280)	22 630 (48,280)	16 490 (34,300)	16 490 (34,300)						

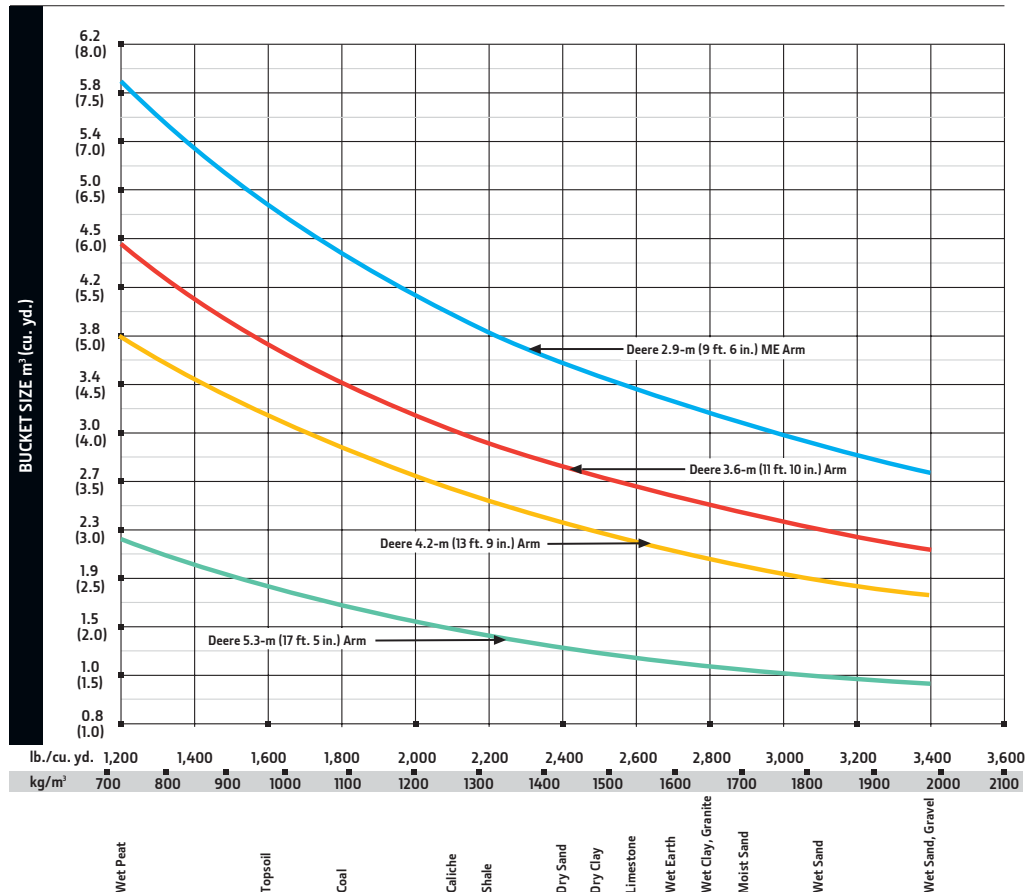
Buckets

670G LC

A full line of buckets is offered to meet a wide variety of applications. Digging forces are with power boost. Tooth selection includes the John Deere Fanggs™ or ESCO 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		Bucket Dig Force				Arm Dig Force 3.6 m (11 ft. 10 in.)			
							(SAE)		(ISO)		(SAE)		(ISO)	
	mm	in.	m ³	cu. yd.	kg	lb.	kN	lb.	kN	lb.	kN	lb.	kN	lb.
Extreme Duty Plate Lip	1219	48	2.65	3.5	3396	7,487	275	61,851	307	69,102	242	54,423	250	56,186
	1372	54	3.06	4.0	3546	7,817	275	61,851	307	69,102	242	54,423	250	56,186
	1524	60	3.53	4.6	3795	8,368	275	61,851	307	69,102	242	54,423	250	56,186
Heavy Duty High Capacity	914	36	1.80	2.4	2664	5,873	275	61,851	307	69,102	242	54,423	250	56,186
	1067	42	2.22	2.9	2867	6,320	275	61,851	307	69,102	242	54,423	250	56,186
	1219	48	2.06	2.7	2966	6,540	275	61,851	307	69,102	242	54,423	250	56,186
	1372	54	3.09	4.0	3129	6,898	275	61,851	307	69,102	242	54,423	250	56,186
	1524	60	3.54	4.6	3302	7,280	275	61,851	307	69,102	242	54,423	250	56,186
	1829	72	4.44	5.8	3593	7,921	275	61,851	307	69,102	242	54,423	250	56,186
	2032	80	5.05	6.6	3916	8,634	275	61,851	307	69,102	242	54,423	250	56,186
Heavy Capacity Dirt	2184	86	4.59	6.0	3941	8,688	287	64,421	320	71,973	246	55,278	254	57,069
Heavy Duty	914	36	1.30	1.7	2252	4,964	326	73,327	364	81,924	258	57,940	266	59,817
	1067	42	1.58	2.1	2594	5,719	326	73,327	364	81,924	258	57,940	266	59,817
	1219	48	1.90	2.5	2722	6,000	326	73,327	364	81,924	258	57,940	266	59,817
	1372	54	2.19	2.9	2858	6,302	326	73,327	364	81,924	258	57,940	266	59,817
	1524	60	2.52	3.3	3062	6,750	326	73,327	364	81,924	258	57,940	266	59,817
Truck Loading	1930	76	3.75	4.9	3043	6,709	287	64,421	320	71,973	246	55,278	254	57,069
	2083	82	4.05	5.3	3292	7,257	287	64,421	320	71,973	246	55,278	254	57,069

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.

Arm Dig Force 4.2 m (13 ft. 9 in.)				Arm Dig Force 5.3 m (17 ft. 5 in.)				Arm Dig Force 2.9 m (9 ft. 6 in.) ME				Bucket Tip Radius		Number of Teeth
(SAE)		(ISO)		(SAE)		(ISO)		(SAE)		(ISO)		mm	in.	
kN	lb.	kN	lb.	kN	lb.	kN	lb.	kN	lb.	kN	lb.			
220	49,448	227	50,993	189	42,497	193	43,383	290	65,260	299	67,238	2281	89.79	3
220	49,448	227	50,993	189	42,497	193	43,383	290	65,260	299	67,238	2281	89.79	3
220	49,448	227	50,993	189	42,497	193	43,383	290	65,260	299	67,238	2281	89.79	3
220	49,448	227	50,993	189	42,497	193	43,383	290	65,260	299	67,238	2281	89.79	3
220	49,448	227	50,993	189	42,497	193	43,383	290	65,260	299	67,238	2281	89.79	3
220	49,448	227	50,993	189	42,497	193	43,383	290	65,260	299	67,238	2281	89.79	4
220	49,448	227	50,993	189	42,497	193	43,383	290	65,260	299	67,238	2281	89.79	5
220	49,448	227	50,993	189	42,497	193	43,383	290	65,260	299	67,238	2281	89.79	5
220	49,448	227	50,993	189	42,497	193	43,383	290	65,260	299	67,238	2281	89.79	6
220	49,448	227	50,993	189	42,497	193	43,383	290	65,260	299	67,238	2281	89.79	6
223	50,152	230	51,720	58	13,013	195	43,910	295	66,427	304	68,440	2190	86.23	6
233	52,331	240	53,996	198	44,597	203	45,526	312	70,090	321	72,214	1924	75.75	3
233	52,331	240	53,996	198	44,597	203	45,526	312	70,090	321	72,214	1924	75.75	4
233	52,331	240	53,996	198	44,597	203	45,526	312	70,090	321	72,214	1924	75.75	4
233	52,331	240	53,996	198	44,597	203	45,526	312	70,090	321	72,214	1924	75.75	5
233	52,331	240	53,996	198	44,597	203	45,526	312	70,090	321	72,214	1924	75.75	5
223	50,152	230	51,720	58	13,013	195	43,910	295	66,427	304	68,440	2189	86.20	6
223	50,152	230	51,720	58	13,013	195	43,910	295	66,427	304	68,440	2189	86.20	7



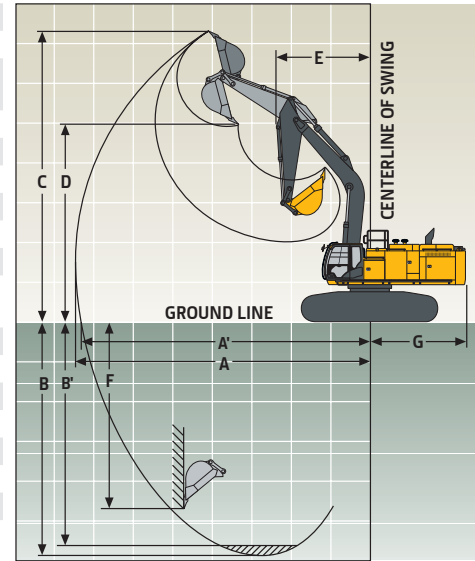
870G LC SPECIFICATIONS

Engine		870G LC	
Manufacturer and Model	Isuzu 6WGI-FT4		
Non-Road Emission Standard	EPA Final Tier 4/EU Stage IV		
Net Rated Power (ISO 9249)	382 kW (512 hp) at 1,800 rpm		
Cylinders	6		
Displacement	15.7 L (957 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	3.2 km/h (2.0 mph)		
High	4.7 km/h (2.9 mph)		
Drawbar Pull	57 085 kg (125,850 lb.)		
Hydraulics			
Open center, load sensing; in-cab mode selectors, illuminated: power modes (3), travel modes (2), and work modes (2)			
Main Pumps		2 variable-displacement pumps	
Maximum Rated Flow	566 L/m (150 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	34 300 kPa (4,975 psi)		
Swing	29 400 kPa (4,264 psi)		
Power Boost	34 300 kPa (4,975 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)	215 mm (8.5 in.)	150 mm (5.9 in.)	1835 mm (72.2 in.)
Arm (1)	225 mm (8.9 in.)	160 mm (6.3 in.)	2225 mm (87.6 in.)
Bucket (1)	200 mm (7.9 in.)	140 mm (5.5 in.)	1555 mm (61.2 in.)
Electrical			
Number of Batteries (12 volt)	2		
Battery Capacity	500 CCA		
Alternator Rating	50 amp		
Work Lights	5 halogen (1 mounted on frame, 2 mounted on boom, and 2 mounted on top of cab)		
Undercarriage			
Planetary final drives with axial-piston motors			
Rollers (each side)			
Carrier	3		
Track	9		
Shoes, Double-Bar Grousers (each side)	51		
Track			
Adjustment	Hydraulic		
Guides	Front and center		
Chain	Sealed and lubricated		
Ground Pressure			
Double-Bar Grouser Shoes			
650 mm (26 in.)	106.9 kPa (15.4 psi)		
750 mm (30 in.)	94.5 kPa (13.5 psi)		
900 mm (36 in.)	84.8 kPa (12.0 psi)		
1020 mm (40 in.)	94.5 kPa (10.6 psi)		

870G LC SPECIFICATIONS

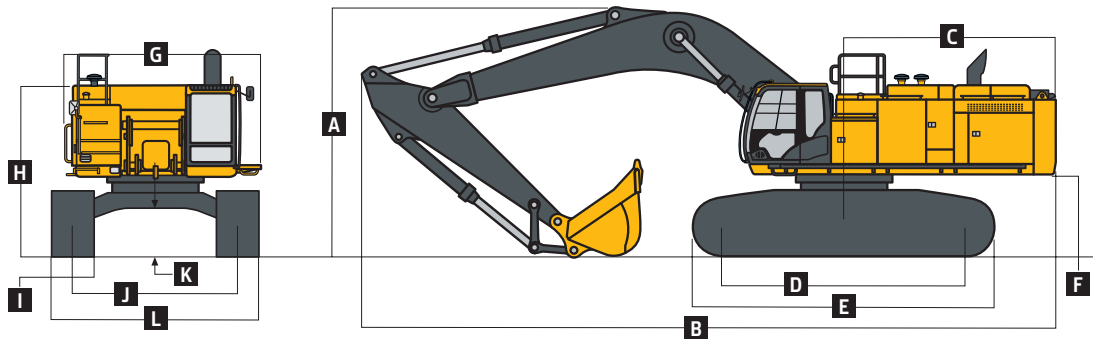


Swing Mechanism		870G LC					
Speed		7.8 rpm					
Torque		269 000 Nm (198,404 lb.-ft.)					
Serviceability							
Refill Capacities							
Fuel Tank		1110 L (293 gal.)					
Cooling System		124 L (32.8 gal.)					
Engine Oil with Filter		57 L (15.1 gal.)					
Hydraulic Tank		500 L (132.1 gal.)					
Hydraulic System		1042 L (275.3 gal.)					
Gearbox							
Swing (each)		15.7 L (16.6 qt.)					
Travel (each)		19 L (20.1 qt.)					
Pump Drive		6.2 L (6.6 qt.)					
Diesel Exhaust Fluid (DEF) Tank		95 L (25.1 gal.)					
Operating Weights							
With full fuel tank; 79-kg (175 lb.) operator; 3.49-m ³ (4.57 cu. yd.), 1370-mm (54 in.), 3558-kg (7,845 lb.) bucket; 4.4-m (14 ft. 5 in.) arm; 12 400-kg (27,337 lb.) counterweight; counterweight-removal device; and 900-mm (36 in.) double-bar grouser shoes							
SAE Operating Weight		85 600 kg (188,716 lb.)					
Component Weights							
Undercarriage with Double-Bar Grouser Shoes							
650 mm (26 in.)		32 326 kg (71,267 lb.)					
750 mm (30 in.)		33 026 kg (72,810 lb.)					
900 mm (36 in.)		33 966 kg (74,882 lb.)					
1020 mm (40 in.)		34 396 kg (75,830 lb.)					
1-Piece Boom (with arm cylinder)							
8.4 m (27 ft. 7 in.)		8190 kg (18,056 lb.)					
7.1-m (23 ft. 4 in.) Mass Excavating (ME)		7670 kg (16,909 lb.)					
10.0 m (32 ft. 10 in.)		9390 kg (20,701 lb.)					
Arm with Bucket Cylinder and Linkage							
3.7 m (12 ft. 1 in.)		4290 kg (9,458 lb.)					
4.4 m (14 ft. 5 in.)		4630 kg (10,207 lb.)					
5.4 m (17 ft. 9 in.)		4940 kg (10,891 lb.)					
2.95-m (9 ft. 8 in.) ME		4620 kg (10,185 lb.)					
Boom-Lift Cylinders (2), Total Weight		1700 kg (3,748 lb.)					
Counterweight with Standard Mainframe		13 300 kg (29,321 lb.)					
Operating Dimensions							
Boom Length		8.4 m (27 ft. 7 in.)	8.4 m (27 ft. 7 in.)	8.4 m (27 ft. 7 in.)	7.1 m (23 ft. 4 in.) ME	10.0 m (32 ft. 10 in.)	10.0 m (32 ft. 10 in.)
Arm Length		3.7 m (12 ft. 2 in.)	4.4 m (14 ft. 5 in.)	5.4 m (17 ft. 9 in.)	2.95 m (9 ft. 8 in.) ME	4.4 m (14 ft. 5 in.)	5.4 m (17 ft. 9 in.)
Arm Digging Force							
SAE		315 kN (70,815 lb.)	273 kN (61,373 lb.)	237 kN (53,280 lb.)	378 kN (84,978 lb.)	273 kN (61,373 lb.)	237 kN (53,280 lb.)
ISO		323 kN (72,613 lb.)	280 kN (62,946 lb.)	243 kN (54,629 lb.)	394 kN (88,575 lb.)	280 kN (62,946 lb.)	243 kN (54,629 lb.)
Bucket Digging Force							
SAE		359 kN (80,706 lb.)	359 kN (80,706 lb.)	289 kN (64,970 lb.)	411 kN (92,396 lb.)	359 kN (80,706 lb.)	289 kN (64,970 lb.)
ISO		399 kN (89,699 lb.)	399 kN (89,699 lb.)	323 kN (72,613 lb.)	472 kN (106,110 lb.)	399 kN (89,699 lb.)	323 kN (72,613 lb.)
A Maximum Reach		14.10 m (46 ft. 3 in.)	14.91 m (48 ft. 11 in.)	15.91 m (52 ft. 2 in.)	12.34 m (40 ft. 6 in.)	16.55 m (54 ft. 4 in.)	17.56 m (57 ft. 7 in.)
A' Maximum Reach at Ground Level		13.82 m (45 ft. 4 in.)	14.64 m (48 ft. 0 in.)	15.67 m (51 ft. 5 in.)	12.02 m (39 ft. 5 in.)	16.32 m (53 ft. 7 in.)	17.34 m (56 ft. 11 in.)
B Maximum Digging Depth		8.87 m (29 ft. 1 in.)	9.57 m (31 ft. 5 in.)	10.57 m (34 ft. 8 in.)	7.14 m (23 ft. 5 in.)	11.16 m (36 ft. 7 in.)	12.16 m (39 ft. 11 in.)
B' Maximum Digging Depth at 2.44-m (8 ft. 0 in.) Flat Bottom		8.74 m (28 ft. 8 in.)	9.46 m (31 ft. 0 in.)	10.47 m (34 ft. 4 in.)	7.00 m (23 ft. 0 in.)	11.04 m (36 ft. 3 in.)	12.06 m (39 ft. 7 in.)
C Maximum Cutting Height		13.03 m (42 ft. 9 in.)	13.82 m (45 ft. 4 in.)	14.52 m (47 ft. 8 in.)	12.01 m (39 ft. 5 in.)	14.66 m (48 ft. 1 in.)	15.34 m (50 ft. 4 in.)
D Maximum Dumping Height		9.08 m (29 ft. 9 in.)	9.74 m (31 ft. 11 in.)	10.41 m (34 ft. 2 in.)	8.13 m (26 ft. 8 in.)	10.81 m (35 ft. 6 in.)	11.26 m (36 ft. 11 in.)
E Minimum Swing Radius		5.95 m (19 ft. 6 in.)	5.95 m (19 ft. 6 in.)	5.94 m (19 ft. 6 in.)	5.21 m (17 ft. 1 in.)	7.35 m (24 ft. 1 in.)	7.32 m (24 ft. 0 in.)
F Maximum Vertical Wall		7.17 m (23 ft. 6 in.)	8.48 m (27 ft. 10 in.)	9.75 m (32 ft. 0 in.)	4.10 m (13 ft. 5 in.)	9.87 m (32 ft. 5 in.)	11.34 m (37 ft. 2 in.)
G Tail-Swing Radius		4.60 m (15 ft. 1 in.)	4.60 m (15 ft. 1 in.)	4.60 m (15 ft. 1 in.)	4.60 m (15 ft. 1 in.)	4.60 m (15 ft. 1 in.)	4.60 m (15 ft. 1 in.)



870G LC

Machine Dimensions		870G LC			
Arm Length		3.7 m (12 ft. 2 in.)	4.4 m (14 ft. 5 in.)	5.4 m (17 ft. 9 in.)	2.95 m (9 ft. 8 in.) ME with 71-m (23 ft. 4 in.) ME Boom
A	Overall Height with Arm	4.77 m (15 ft. 8 in.)	5.13 m (16 ft. 10 in.)	5.76 m (18 ft. 11 in.)	5.20 m (17 ft. 1 in.)
B	Overall Length with Arm	14.80 m (48 ft. 7 in.)	14.80 m (48 ft. 7 in.)	14.65 m (48 ft. 1 in.)	13.55 m (44 ft. 5 in.)
C	Rear-End Length/Swing Radius	4.54 m (14 ft. 11 in.)	4.54 m (14 ft. 11 in.)	4.54 m (14 ft. 11 in.)	4.54 m (14 ft. 11 in.)
D	Distance Between Idler/Sprocket Centerline	5.11 m (16 ft. 9 in.)	5.11 m (16 ft. 9 in.)	5.11 m (16 ft. 9 in.)	5.11 m (16 ft. 9 in.)
E	Undercarriage Length	6.36 m (20 ft. 10 in.)	6.36 m (20 ft. 10 in.)	6.36 m (20 ft. 10 in.)	6.36 m (20 ft. 10 in.)
F	Counterweight Clearance	1.68 m (5 ft. 6 in.)	1.68 m (5 ft. 6 in.)	1.68 m (5 ft. 6 in.)	1.68 m (5 ft. 6 in.)
G	Upperstructure Width	4.12 m (13 ft. 6 in.)	4.12 m (13 ft. 6 in.)	4.12 m (13 ft. 6 in.)	4.12 m (13 ft. 6 in.)
H	Cab Height	3.69 m (12 ft. 1 in.)	3.69 m (12 ft. 1 in.)	3.69 m (12 ft. 1 in.)	3.69 m (12 ft. 1 in.)
I	Track Width with Double-Bar Grouser Shoes	650 mm (26 in.) / 750 mm (30 in.) / 900 mm (36 in.) / 1020 mm (40 in.)		650 mm (26 in.) / 750 mm (30 in.) / 900 mm (36 in.) / 1020 mm (40 in.)	
J	Track Gauge with 900-mm (36 in.) Double-Bar Grouser Shoes				
	Operating Position	3.45 m (11 ft. 4 in.)	3.45 m (11 ft. 4 in.)	3.45 m (11 ft. 4 in.)	3.45 m (11 ft. 4 in.)
	Transport Position	2.83 m (9 ft. 3 in.)	2.83 m (9 ft. 3 in.)	2.83 m (9 ft. 3 in.)	2.83 m (9 ft. 3 in.)
K	Ground Clearance	0.89 m (35 in.)	0.89 m (35 in.)	0.89 m (35 in.)	0.89 m (35 in.)
L	Width over Track with 900-mm (36 in.) Double-Bar Grouser Shoes				
	Operating Position	4.35 m (14 ft. 3 in.)	4.35 m (14 ft. 3 in.)	4.35 m (14 ft. 3 in.)	4.35 m (14 ft. 3 in.)
	Transport Position	3.73 m (12 ft. 3 in.)	3.73 m (12 ft. 3 in.)	3.73 m (12 ft. 3 in.)	3.73 m (12 ft. 3 in.)

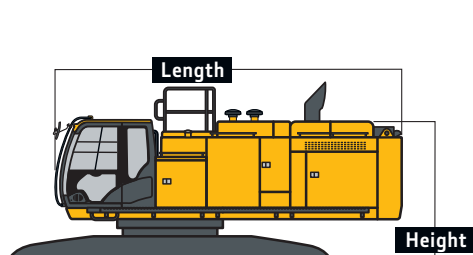


Packing Dimensions and Weights for Transportation				
	Length	Height	Overall Width	Weight
Base Machine (without front attachment and side frame)*	6.50 m (21 ft. 4 in.)	2.96 m (9 ft. 9 in.)	3.42 m (11 ft. 3 in.)	29 000 kg (63,934 lb.)
Side Frame (each)				
With 650-mm (26 in.) Shoes	6.36 m (20 ft. 10 in.)	1.50 m (4 ft. 11 in.)	1.33 m (4 ft. 4 in.)	12 300 kg (27,117 lb.)
With 750-mm (30 in.) Shoes	6.36 m (20 ft. 10 in.)	1.50 m (4 ft. 11 in.)	1.33 m (4 ft. 4 in.)	12 600 kg (27,778 lb.)
With 900-mm (36 in.) Shoes	6.36 m (20 ft. 10 in.)	1.50 m (4 ft. 11 in.)	1.42 m (4 ft. 8 in.)	13 100 kg (28,881 lb.)
With 1020-mm (40 in.) Shoes	6.36 m (20 ft. 10 in.)	1.50 m (4 ft. 11 in.)	1.46 m (4 ft. 9 in.)	13 500 kg (29,762 lb.)
Counterweight, Standard	3.36 m (11 ft. 0 in.)	1.62 m (5 ft. 4 in.)	0.72 m (28 in.)	13 333 kg (29,394 lb.)
Boom				
7.1 m (23 ft. 4 in.)	7.49 m (24 ft. 7 in.)	2.70 m (8 ft. 10 in.)	1.45 m (4 ft. 9 in.)	7670 kg (16,909 lb.)
8.4 m (27 ft. 7 in.)	8.78 m (28 ft. 10 in.)	2.50 m (8 ft. 2 in.)	1.45 m (4 ft. 9 in.)	8190 kg (18,056 lb.)
10.0 m (32 ft. 10 in.)	10.37 m (34 ft. 0 in.)	2.70 m (8 ft. 10 in.)	1.45 m (4 ft. 9 in.)	9390 kg (20,701 lb.)
Arm				
2.95 m (9 ft. 8 in.)	4.46 m (14 ft. 8 in.)	1.66 m (5 ft. 5 in.)	0.85 m (33 in.)	4620 kg (10,185 lb.)
3.7 m (12 ft. 2 in.)	5.29 m (17 ft. 4 in.)	1.42 m (4 ft. 8 in.)	0.82 m (32 in.)	4290 kg (9,458 lb.)
4.4 m (14 ft. 5 in.)	5.88 m (19 ft. 3 in.)	1.42 m (4 ft. 8 in.)	0.82 m (32 in.)	4630 kg (10,207 lb.)
5.4 m (17 ft. 9 in.)	6.83 m (22 ft. 5 in.)	1.48 m (4 ft. 10 in.)	0.80 m (31 in.)	4940 kg (10,891 lb.)
Base Machine (without front attachment)*				
With 650-mm (26 in.) Shoes	7.53 m (24 ft. 8 in.)	3.89 m (12 ft. 9 in.) / 3.86 m (12 ft. 8 in.) w/o exhaust stack	3.48 m (11 ft. 5 in.)	53 400 kg (117,727 lb.)
With 750-mm (30 in.) Shoes	7.53 m (24 ft. 8 in.)	3.89 m (12 ft. 9 in.) / 3.86 m (12 ft. 8 in.) w/o exhaust stack	3.58 m (11 ft. 9 in.)	54 000 kg (119,050 lb.)
With 900-mm (36 in.) Shoes	7.53 m (24 ft. 8 in.)	3.89 m (12 ft. 9 in.) / 3.86 m (12 ft. 8 in.) w/o exhaust stack	3.73 m (12 ft. 3 in.)	55 000 kg (121,254 lb.)
With 1020-mm (40 in.) Shoes	7.53 m (24 ft. 8 in.)	3.89 m (12 ft. 9 in.) / 3.86 m (12 ft. 8 in.) w/o exhaust stack	3.85 m (12 ft. 8 in.)	55 800 kg (123,018 lb.)

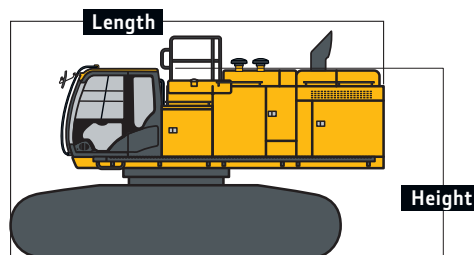
*Steps on the track frame, exhaust stack, and side hydraulic oil tank; handrails on the upper battery box; upper fuel tank; and side hydraulic oil tank must be removed.

Packing Dimensions and Weights
 for Transportation *(continued)*

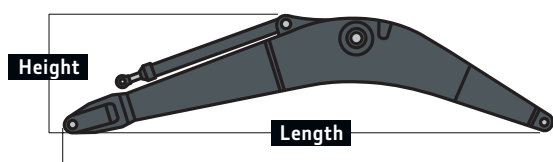
870G LC



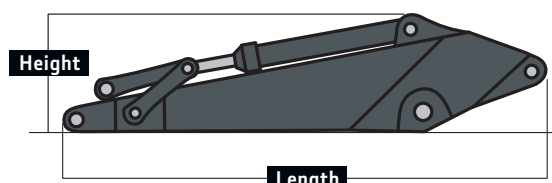
Base Machine



Less Boom, Arm, and Counterweight



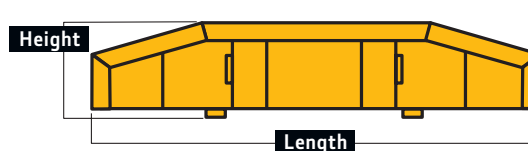
Boom



Arm



Side Frame



Counterweight

Lift Capacities

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

LOAD POINT HEIGHT	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.)		10.5 m (35 ft.)		12.0 m (40 ft.)	
	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
9.0 m (30 ft.)									(27,690)	(27,690)	10 020 (19,450)	10 020 (19,450)		
7.5 m (25 ft.)									13 530 (29,450)	13 530 (29,450)	12 670 (26,640)	12 670 (26,640)		
6.0 m (20 ft.)							16 970 (36,620)	16 970 (36,620)	14 840 (32,180)	14 840 (32,180)	13 490 (29,370)	12 540 (26,860)	9300 (16,450)	9300 (16,450)
4.5 m (15 ft.)					25 250 (54,120)	25 250 (54,120)	19 610 (42,250)	19 610 (42,250)	16 420 (35,520)	15 860 (34,120)	14 420 (31,320)	12 110 (25,980)	12 000 (23,410)	9350 (19,960)
3.0 m (10 ft.)					29 590 (63,590)	28 620 (61,710)	22 180 (47,810)	20 250 (43,630)	18 010 (38,940)	15 130 (32,540)	15 400 (33,400)	11 650 (25,010)	13 670 (27,730)	9120 (19,490)
1.5 m (5 ft.)					28 890 (69,870)	27 170 (58,490)	24 200 (52,240)	19 280 (41,520)	19 360 (41,870)	14 490 (31,160)	16 260 (35,220)	11 240 (24,120)	14 110 (29,650)	8870 (19,010)
Ground Line					28 790 (68,030)	26 420 (56,810)	25 380 (54,870)	18 640 (40,100)	20 260 (43,820)	14 020 (30,140)	16 820 (36,390)	10 920 (23,450)	13 980 (26,770)	8700 (18,650)
-1.5 m (-5 ft.)			16 350 (37,550)	16 350 (37,550)	33 260 (72,030)	26,150 (56,180)	25 660 (55,510)	18 300 (39,350)	20 540 (44,410)	13 740 (29,540)	16 910 (36,500)	10 730 (23,060)		
-3.0 m (-10 ft.)	16 530 (37,410)	16 530 (37,410)	24 950 (57,060)	24 950 (57,060)	31 890 (69,030)	26 190 (56,250)	24 980 (54,000)	18 220 (39,180)	20 050 (43,250)	13 660 (29,380)	16 230 (34,820)	10 720 (23,060)		
-4.5 m (-15 ft.)	25 420 (57,580)	25 420 (57,580)	36 210 (81,680)	36 210 (81,680)	29 280 (63,220)	26 490 (56,920)	23 170 (49,890)	18 390 (39,570)	18 450 (39,500)	13 800 (29,730)				
-6.0 m (-20 ft.)			31 730 (68,100)	31 730 (68,100)	24 960 (53,450)	24 960 (53,450)	19 640 (41,730)	18 850 (40,640)	14 570	14 310				

870G LC

Lift Capacities (continued)

870G 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).

LOAD POINT HEIGHT	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.)		10.5 m (35 ft.)		12.0 m (40 ft.)	
	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
<i>With 7.1-m (23 ft. 4 in.) ME boom, 2.95-m (9 ft. 8 in.) ME arm, 4.5-m³ (5.89 cu. yd.) bucket, and 650-mm (26 in.) double-bar grouser shoes</i>														
7.5 m (25 ft.)							18 590 (40,540)	18 590 (40,540)						
6.0 m (20 ft.)					24 030 (51,760)	24 030 (51,760)	20 180 (43,740)	20 180 (43,740)	17 960 (39,200)	15 640 (33,380)				
4.5 m (15 ft.)					28 170 (60,570)	28 170 (60,570)	22 240 (48,080)	21 160 (45,510)	18 940 (41,120)	15 290 (32,740)				
3.0 m (10 ft.)					31 890 (68,680)	29 020 (62,470)	24 270 (52,450)	20 180 (43,400)	19 970 (43,290)	14 780 (31,720)				
1.5 m (5 ft.)					33 940 (73,300)	27 780 (59,730)	25 680 (55,500)	19 380 (41,660)	20 660 (44,710)	14 310 (30,710)				
Ground Line					34 060 (73,720)	27 140 (58,300)	26,030 (56,270)	18 870 (40,540)	20 610 (44,450)	13 990 (30,040)				
-1.5 m (-5 ft.)			37 400 (86,600)	37 400 (86,600)	32 420 (70,180)	26 950 (57,870)	24 990 (53,930)	18 660 (40,100)	19 060	13 920				
-3.0 m (-10 ft.)	37 120 (84,430)	37 120 (84,430)	37 090 (80,340)	37 090 (80,340)	28 750 (61,990)	27 130 (58,270)	21 820 (46,550)	18 800 (40,460)						
-4.5 m (-15 ft.)			28 290 (60,460)	28 290 (60,460)	21 550 (45,370)	21 550 (45,370)								
<i>With 8.4-m (27 ft. 7 in.) boom, 4.4-m (14 ft. 5 in.) arm, 2.9-m³ (3.79 cu. yd.) bucket, and 750-mm (30 in.) double-bar grouser shoes</i>														
9.0 m (30 ft.)									(27,690)	(27,690)	10 020 (19,450)	10 020 (19,450)		
7.5 m (25 ft.)									13 530 (29,450)	13 530 (29,450)	12 670 (26,640)	12 670 (26,640)		
6.0 m (20 ft.)							16 970 (36,620)	16 970 (36,620)	14 840 (32,180)	14 840 (32,180)	13 490 (29,370)	12 650 (27,100)	9300 (16,450)	9300 (16,450)
4.5 m (15 ft.)					25 250 (54,120)	25 250 (54,120)	19 610 (42,250)	19 610 (42,250)	16 420 (35,520)	16 000 (34,410)	14 420 (31,320)	12 220 (26,220)	12 000 (23,410)	9450 (20,160)
3.0 m (10 ft.)					29 590 (63,590)	28 850 (62,210)	22 180 (47,810)	20 420 (44,000)	18 010 (38,940)	15 260 (32,830)	15 400 (33,400)	11 760 (25,250)	13 670 (27,730)	9210 (19,700)
1.5 m (5 ft.)					28 890 (69,870)	27 400 (58,990)	24 200 (52,240)	19 450 (41,880)	19 360 (41,870)	14 620 (31,450)	16 260 (35,220)	11 350 (24,360)	14 110 (29,650)	8970 (19,210)
Ground Line					28 790 (68,030)	26 660 (57,310)	25 380 (54,870)	18 810 (40,460)	20 260 (43,820)	14 150 (30,430)	16 820 (36,390)	11 030 (23,690)	14 120 (26,770)	8790 (18,860)
-1.5 m (-5 ft.)			16 350 (37,550)	16 350 (37,550)	33 260 (72,030)	26 380 (56,680)	25 660 (55,510)	18 470 (39,720)	20 540 (44,410)	13 870 (29,830)	16 910 (36,500)	10 850 (23,300)		
-3.0 m (-10 ft.)	16 530 (37,410)	16 530 (37,410)	24 950 (57,060)	24 950 (57,060)	31 890 (69,030)	26 420 (56,750)	24 980 (54,000)	18 390 (39,550)	20 050 (43,250)	13 790 (29,670)	16 230 (34,820)	10 830 (23,300)		
-4.5 m (-15 ft.)	25 420 (57,580)	25 420 (57,580)	36 210 (81,680)	36 210 (81,680)	29 280 (63,220)	26 720 (57,420)	23 170 (49,890)	18 560 (39,940)	18 450 (39,500)	13 940 (29,020)				
-6.0 m (-20 ft.)			31 730 (68,100)	31 730 (68,100)	24 960 (53,450)	24 960 (53,450)	19 640 (41,730)	19 020 (41,000)	14 570	14 440				
<i>With 8.4-m (27 ft. 7 in.) boom, 3.7-m (12 ft. 2 in.) arm, 3.5-m³ (4.58 cu. yd.) bucket, and 900-mm (36 in.) double-bar grouser shoes</i>														
9.0 m (30 ft.)									13 880 (30,450)	13 880 (30,450)				
7.5 m (25 ft.)									14 650 (31,870)	14 650 (31,870)	13 100 (25,050)	12 690 (25,050)		
6.0 m (20 ft.)					22 870 (48,970)	22 870 (48,970)	18 430 (39,740)	18 430 (39,740)	15 890 (34,440)	15 890 (34,440)	14 330 (31,210)	12 490 (26,730)		
4.5 m (15 ft.)					27 610 (59,130)	27 610 (59,130)	20 980 (45,190)	20 980 (45,190)	17 360 (37,560)	15 870 (34,130)	15 160 (32,930)	12 130 (26,030)		
3.0 m (10 ft.)					31 520 (67,720)	28 480 (61,420)	23 340 (50,310)	20 280 (43,710)	18 810 (40,670)	15 200 (32,710)	16 010 (34,700)	11 740 (25,190)		
1.5 m (5 ft.)					25 410 (61,700)	25 410 (59,000)	25 010 (54,000)	19 470 (41,920)	19 950 (43,140)	14 660 (31,520)	16 690 (36,140)	11 390 (24,460)		
Ground Line					29 580 (69,890)	26 980 (57,990)	25 770 (55,720)	18 980 (40,830)	20 580 (44,500)	14 280 (30,710)	17 020 (36,790)	11 140 (23,940)		
-1.5 m (-5 ft.)			18 560 (42,710)	18 560 (42,710)	32 750 (70,990)	26 910 (57,790)	25 590 (55,360)	18 780 (40,370)	20 520 (44,340)	14 090 (30,310)	16 750 (36,070)	11 040 (23,740)		
-3.0 m (-10 ft.)	20 700 (46,800)	20 700 (46,800)	30 190 (69,030)	30 190 (69,030)	30 770 (66,640)	27 080 (58,170)	24 400 (52,720)	18 810 (40,460)	19 560 (42,110)	14 110 (30,370)				
-4.5 m (-15 ft.)			34 430 (74,510)	34 430 (74,510)	27 470 (59,280)	27 470 (59,100)	21 900 (47,040)	19 090 (41,100)	17 090 (36,210)	14 390 (31,050)				
-6.0 m (-20 ft.)			27 450 (58,690)	27 450 (58,690)	22 090 (46,990)	22 090 (46,990)	17 000 (35,450)	17 000 (35,450)						

Lift Capacities (continued)

870G 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).

LOAD POINT HEIGHT	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.)		10.5 m (35 ft.)		12.0 m (40 ft.)	
	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
<i>With 8.4-m (27 ft. 7 in.) boom, 4.4-m (14 ft. 5 in.) arm, 2.9-m³ (3.79 cu. yd.) bucket, and 900-mm (36 in.) double-bar grouser shoes</i>														
9.0 m (30 ft.)									(27,690)	(27,690)	(19,450)	(19,450)		
7.5 m (25 ft.)									13 530	13 530	12 670	12 670		
6.0 m (20 ft.)									(29,450)	(29,450)	(26,640)	(26,640)		
4.5 m (15 ft.)					25 250	25 250	19 610	19 610	16 420	16 190	14 420	12 370	12 000	9580
3.0 m (10 ft.)					(54,120)	(54,120)	(42,250)	(42,250)	(35,520)	(34,820)	(31,320)	(26,550)	(23,410)	(20,450)
1.5 m (5 ft.)					29 590	29 170	22 180	20 660	18 010	15 450	15 400	11 910	13 670	9340
Ground Line					(63,590)	(62,900)	(47,810)	(44,520)	(38,940)	(33,230)	(33,400)	(25,580)	(27,730)	(19,980)
-1.5 m (-5 ft.)					28 890	27 720	24 200	19 690	19 360	14 810	16 260	11 500	14 110	9100
					(69,870)	(59,690)	(52,240)	(42,400)	(41,870)	(31,860)	(35,220)	(24,700)	(29,650)	(19,500)
					28 790	26 980	25 380	19 040	20 260	14 340	16 820	11 180	14 290	8920
					(68,030)	(58,010)	(54,870)	(40,980)	(43,820)	(30,830)	(36,390)	(24,020)	(26,770)	(19,140)
-3.0 m (-10 ft.)	16 530	16 530	24 950	24 950	31 890	26 740	24 980	18 630	20 050	13 980	16 230	10 980		
	(37,410)	(37,410)	(57,060)	(57,060)	(69,030)	(57,450)	(54,000)	(40,060)	(43,250)	(30,070)	(34,820)	(23,640)		
-4.5 m (-15 ft.)	25 420	25 420	36 210	36 210	29 280	27 050	23 170	18 800	18 450	14 130				
	(57,580)	(57,580)	(81,680)	(81,680)	(63,220)	(58,120)	(49,890)	(40,450)	(39,500)	(30,430)				
-6.0 m (-20 ft.)			31 730	31 730	24 960	24 960	19 640	19 260	14 570	14 570				
			(68,100)	(68,100)	(53,450)	(53,450)	(41,730)	(41,520)						
<i>With 8.4-m (27 ft. 7 in.) boom, 5.4-m (17 ft. 9 in.) arm, 2.3-m³ (3.01 cu. yd.) bucket, and 900-mm (36 in.) double-bar grouser shoes</i>														
10.5 m (35 ft.)											7900	7900		
											(15,910)	(15,910)		
9.0 m (30 ft.)											9200	9200	5930	5930
											(19,730)	(19,730)		
7.5 m (25 ft.)											10 200	10 200	8360	8360
											(22,080)	(22,080)	(16,960)	(16,960)
6.0 m (20 ft.)									12 310	12 310	11 660	11 660	9880	9880
									(26,700)	(26,700)	(25,210)	(25,210)	(20,710)	(20,710)
4.5 m (15 ft.)					21 680	21 680	17 380	17 380	14 830	14 830	13 180	12 680	11 460	9840
					(46,510)	(46,510)	(37,480)	(37,480)	(32,110)	(32,110)	(28,630)	(27,200)	(24,150)	(21,030)
3.0 m (10 ft.)					26 460	26 460	20 200	20 200	16 610	15 800	14 320	12 140	12 780	9500
					(56,880)	(56,880)	(43,570)	(43,570)	(35,920)	(33,990)	(31,050)	(26,060)	(27,780)	(20,340)
1.5 m (5 ft.)					30 210	28 350	22 650	20 060	18 220	15 040	15 390	11 640	13 440	9180
					(65,120)	(61,050)	(48,900)	(43,200)	(39,410)	(32,340)	(33,330)	(24,980)	(29,150)	(19,650)
Ground Line			10 910	10 910	31 520	27 140	24 390	19 190	19 470	14 420	16 220	11 220	13 920	8910
			(25,350)	(25,350)	(70,030)	(58,370)	(52,710)	(41,280)	(42,110)	(31,010)	(35,120)	(24,090)	(30,140)	(19,090)
-1.5 m (-5 ft.)	7900	7900	15 260	15 260	33 060	26 520	25 270	18 640	20 180	14 010	16 680	10 930	14 070	8730
	(17,940)	(17,940)	(35,000)	(35,000)	(71,780)	(56,980)	(54,670)	(40,070)	(43,650)	(30,100)	(36,070)	(23,460)	(30,330)	(18,730)
-3.0 m (-10 ft.)	13 570	13 570	21 250	21 250	32 710	26 310	25 270	18 380	20 230	13 790	16 590	10 780	13 360	8690
	(30,700)	(30,700)	(48,560)	(48,560)	(70,770)	(56,520)	(54,630)	(39,520)	(43,710)	(29,650)	(35,780)	(23,170)	(23,920)	(18,700)
-4.5 m (-15 ft.)	20 110	20 110	29 200	29 200	31 050	26 420	24 260	18 390	19 430	13 780	15 660	10 820		
	(45,550)	(45,550)	(66,830)	(66,830)	(67,080)	(56,770)	(52,360)	(39,550)	(41,840)	(29,650)	(33,480)	(23,310)		
-6.0 m (-20 ft.)	28 310	28 310	36 610	36 610	27 970	26 830	21 990	18 650	17 360	14 020				
	(64,350)	(64,350)	(78,800)	(78,800)	(60,140)	(57,700)	(47,140)	(40,170)	(36,940)	(30,230)				
-7.5 m (-25 ft.)			29 490	29 490	22 810	22 810	17 610	17 610						
			(62,630)	(62,630)	(48,310)	(48,310)	(36,860)	(36,860)						

Lift Capacities (continued)

870G 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.)		10.5 m (35 ft.)		12.0 m (40 ft.)	
LOAD POINT HEIGHT	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
With 71-m (23 ft. 4 in.) ME boom, 2.95-m (9 ft. 8 in.) ME arm, 4.5-m³ (5.89 cu. yd.) bucket, and 900-mm (36 in.) double-bar grouser shoes														
7.5 m (25 ft.)							18 590 (40,540)	18 590 (40,540)						
6.0 m (20 ft.)					24 030 (51,760)	24 030 (51,760)	20 180 (43,740)	20 180 (43,740)	17 960 (39,200)	15 960 (34,080)				
4.5 m (15 ft.)					28 170 (60,570)	28 170 (60,570)	22 240 (48,080)	21 570 (46,390)	18 940 (41,120)	15 620 (33,440)				
3.0 m (10 ft.)					31 890 (68,680)	29 570 (63,670)	24 270 (52,450)	20 590 (44,280)	19 970 (43,290)	15 100 (32,410)				
1.5 m (5 ft.)					33 940 (73,300)	28 330 (60,930)	25 680 (55,500)	19 790 (42,540)	20 660 (44,710)	14 630 (31,400)				
Ground Line					34 060 (73,720)	27 700 (59,500)	26 030 (56,270)	19 270 (41,420)	20 610 (44,450)	14 310 (30,730)				
-1.5 m (-5 ft.)			37 400 (86,600)	37 400 (86,600)	32 420 (70,180)	27 510 (59,060)	24 990 (53,930)	19 070 (40,980)	19 060 (40,980)	14 240 (30,730)				
-3.0 m (-10 ft.)	37 120 (84,430)	37 120 (84,430)	37 090 (80,340)	37 090 (80,340)	28 750 (61,990)	27 690 (59,470)	21 820 (46,550)	19 210 (41,340)						
-4.5 m (-15 ft.)			28 290 (60,460)	28 290 (60,460)	21 550 (45,370)	21 550 (45,370)								
With 10.0-m (32 ft. 10 in.) boom, 4.4-m (14 ft. 5 in.) arm, 2.0-m³ (2.63 cu. yd.) bucket, 900-mm (36 in.) double-bar grouser shoes, and 12 400-kg (27,337 lb.) standard counterweight														
9.0 m (30 ft.)											10 150 (22,130)	10 150 (22,130)	9760 (21,450)	9760 (21,450)
7.5 m (25 ft.)											10 900 (23,660)	10 900 (23,660)	10 130 (22,110)	10 050 (21,480)
6.0 m (20 ft.)							16 520 (35,420)	16 520 (35,420)	13 630 (29,380)	13 630 (29,380)	11 860 (25,670)	11 860 (25,670)	10 720 (23,320)	9730 (20,840)
4.5 m (15 ft.)							19 240 (41,260)	19 240 (41,260)	15 300 (32,950)	15 230 (32,850)	12 930 (27,960)	11 830 (25,450)	11 410 (24,750)	9330 (20,000)
3.0 m (10 ft.)							21 600 (46,410)	18 730 (40,460)	16 860 (36,330)	14 330 (30,900)	13 990 (30,220)	11 230 (24,160)	12 110 (26,240)	8930 (19,160)
1.5 m (5 ft.)							23 190 (49,970)	17 810 (38,410)	18 100 (39,060)	13 630 (29,360)	14 890 (32,180)	10 730 (23,070)	12 730 (27,570)	8580 (14,800)
Ground Line							23 960 (51,760)	17 320 (37,280)	18 920 (40,870)	13 150 (28,310)	15 550 (33,600)	10 350 (22,260)	13 190 (28,550)	8310 (17,840)
-1.5 m (-5 ft.)					13 350 (31,420)	13 350 (31,420)	24 070 (52,080)	17 110 (36,810)	19 270 (41,660)	12 890 (27,730)	15 880 (34,320)	10 120 (21,760)	13 400 (28,960)	8150 (17,500)
-3.0 m (-10 ft.)			11 970 (27,640)	11 970 (27,640)	20 970 (48,640)	20 970 (48,640)	23 610 (51,100)	17 120 (36,800)	19 130 (41,350)	12 810 (27,550)	15 810 (34,130)	10 040 (21,590)	13 240 (28,510)	8110 (17,430)
-4.5 m (-15 ft.)	15 260 (34,670)	15 260 (34,670)	20 150 (46,110)	20 150 (46,110)	27 960 (60,590)	25 110 (53,910)	22 560 (48,790)	17 290 (37,180)	18 430 (39,780)	12 900 (27,760)	15 210 (32,730)	10 120 (21,780)	12 440 (26,420)	8240 (17,800)
-6.0 m (-20 ft.)	23 300 (52,950)	23 300 (52,950)	29 880 (68,530)	29 880 (68,530)	25 530 (55,120)	25 530 (55,060)	20 770 (44,760)	17 650 (37,990)	16 990 (36,480)	13 180 (28,400)	13 760 (29,210)	10 400 (22,460)		
-7.5 m (-25 ft.)			26 930 (57,740)	26 930 (57,740)	21 900 (46,870)	21 900 (46,870)	17 840 (38,010)	17 840 (38,010)	14 240 (29,900)	13 730 (29,720)				

Lift Capacities (continued)

870G 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).

LOAD POINT HEIGHT	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.)		10.5 m (35 ft.)		12.0 m (40 ft.)	
	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
<i>With 10.0-m (32 ft. 10 in.) boom, 5.4-m (17 ft. 9 in.) arm, 1.9-m³ (2.48 cu. yd.) bucket, 900-mm (36 in.) double-bar grouser shoes, and 12 400-kg (27,337 lb.) standard counterweight</i>														
9.0 m (30 ft.)													8720 (19,090)	8720 (19,090)
7.5 m (25 ft.)											9860 (21,400)	9860 (21,400)	9220 (20,090)	9220 (20,090)
6.0 m (20 ft.)									12 360 (26,650)	12 360 (26,650)	10 880 (23,560)	10 880 (23,560)	9890 (21,490)	9890 (21,490)
4.5 m (15 ft.)							17 400 (37,340)	17 400 (37,340)	14 090 (30,370)	14 090 (30,370)	12 030 (26,020)	12 030 (26,020)	10 670 (23,130)	9680 (20,760)
3.0 m (10 ft.)							19 980 (42,950)	19 620 (42,370)	15 790 (34,040)	14 910 (32,150)	13 190 (28,510)	11 640 (25,040)	11 470 (24,840)	9230 (19,790)
1.5 m (5 ft.)							21 990 (47,390)	18 390 (39,660)	17 250 (37,220)	14 050 (30,280)	14 240 (30,780)	11 040 (23,740)	12 210 (26,440)	8810 (18,900)
Ground Line					(22,850)	(22,850)	23 290 (50,280)	17 590 (37,890)	18 340 (39,620)	13 410 (28,880)	15 080 (32,610)	10 560 (22,710)	12 820 (27,750)	8470 (18,170)
-1.5 m (-5 ft.)					13 380 (31,210)	13 380 (31,210)	23 890 (51,670)	17 160 (36,920)	19 000 (41,080)	13 000 (27,970)	15 640 (33,810)	10 230 (21,990)	13 230 (28,610)	8220 (17,640)
-3.0 m (-10 ft.)	15 910 (34,910)	15 910 (34,910)	10 770 (24,720)	10 770 (24,720)	18 570 (42,930)	18 570 (42,930)	23 900 (51,710)	17 000 (36,560)	19 200 (41,520)	12 800 (27,520)	15 850 (34,250)	10 050 (21,590)	13 350 (28,820)	8090 (17,370)
-4.5 m (-15 ft.)	12 310 (27,930)	12 310 (27,930)	16 580 (37,880)	16 580 (37,880)	25 350 (58,530)	24 580 (52,790)	23 330 (50,440)	17 050 (36,670)	18 910 (40,850)	12 780 (27,480)	15 630 (33,710)	10 020 (21,540)	13 060 (28,070)	8090 (17,400)
-6.0 m (-20 ft.)	18 200 (41,300)	18 200 (41,300)	23 580 (53,950)	23 580 (53,950)	27 630 (59,690)	25 000 (53,740)	22 100 (47,680)	17 300 (37,230)	18 010 (38,790)	12 940 (27,850)	14 820 (31,810)	10 150 (21,870)	12 050 (25,490)	8280 (17,890)
-7.5 m (-25 ft.)	25 380 (57,800)	25 380 (57,800)	31 580 (67,920)	31 580 (67,920)	24 810 (53,320)	24 810 (53,320)	19 990 (42,880)	17 760 (38,270)	16 250 (34,680)	13 300 (28,710)	13 000 (27,340)	10 520 (22,780)		
-9.0 m (-30 ft.)			25 770 (54,680)	25 770 (54,680)	20 520 (43,480)	20 520 (43,480)	16 470 (34,640)	16 470 (34,640)	12 800 (26,220)	12 800 (26,220)				
<i>With 10.0-m (32 ft. 10 in.) boom, 4-4-m (14 ft. 5 in.) arm, 2.0-m³ (2.63 cu. yd.) bucket, 1020-mm (40 in.) double-bar grouser shoes, and 12 400-kg (27,337 lb.) standard counterweight</i>														
9.0 m (30 ft.)											10 150 (22,130)	10 150 (22,130)	9760 (21,450)	9760 (21,450)
7.5 m (25 ft.)											10 900 (23,660)	10 900 (23,660)	10 130 (22,110)	10 130 (21,730)
6.0 m (20 ft.)							16 520 (35,420)	16 520 (35,420)	13 630 (29,380)	13 630 (29,380)	11 860 (25,670)	11 860 (25,670)	10 720 (23,320)	9840 (21,080)
4.5 m (15 ft.)							19 240 (41,260)	19 240 (41,260)	15 300 (32,950)	15 300 (32,950)	12 930 (27,960)	11 960 (25,730)	11 410 (24,750)	9440 (20,240)
3.0 m (10 ft.)							21 600 (46,410)	18 930 (40,900)	16 860 (36,330)	14 490 (31,250)	13 990 (30,220)	11 360 (24,450)	12 110 (26,240)	9040 (19,400)
1.5 m (5 ft.)							23 190 (49,970)	18 020 (38,850)	18 100 (39,060)	13 790 (29,710)	14 890 (32,180)	10 860 (23,360)	12 730 (27,570)	8690 (18,660)
Ground Line							23 960 (51,760)	17 520 (37,720)	18 920 (40,870)	13 310 (28,660)	15 550 (33,600)	10 490 (22,540)	13 190 (28,550)	8480 (18,080)
-1.5 m (-5 ft.)					13 350 (31,420)	13 350 (31,420)	24 070 (52,080)	17 320 (37,240)	19 270 (41,660)	13 050 (28,070)	15 880 (34,320)	10 260 (22,050)	13 400 (28,960)	8260 (17,740)
-3.0 m (-10 ft.)			11 970 (27,640)	11 970 (27,640)	20 970 (48,640)	20 970 (48,640)	23 610 (51,100)	17 320 (37,230)	19 130 (41,350)	12 970 (27,900)	15 810 (34,130)	10 170 (21,870)	13 240 (28,510)	8220 (17 680)
-4.5 m (-15 ft.)	15 260 (34,670)	15 260 (34,670)	20 150 (46,110)	20 150 (46,110)	27 960 (60,590)	25 380 (54,510)	22 560 (48,790)	17 490 (37,620)	18 430 (39,780)	13 060 (28,110)	15 210 (32,730)	10 250 (22,060)	12 440 (26,420)	8350 (18,050)
-6.0 m (-20 ft.)	23 300 (52,950)	23 300 (52,950)	29 880 (68,530)	29 880 (68,530)	25 530 (55,120)	25 530 (55,120)	20 770 (44,760)	17 850 (38,420)	16 990 (36,480)	13 340 (28,750)	13 760 (29,210)	10 530 (22,750)		
-7.5 m (-25 ft.)			26 930 (57,740)	26 930 (57,740)	21 900 (46,870)	21 900 (46,870)	17 840 (38,010)	17 840 (38,010)	14 240 (29,900)	13 890 (29,900)				

870G LC

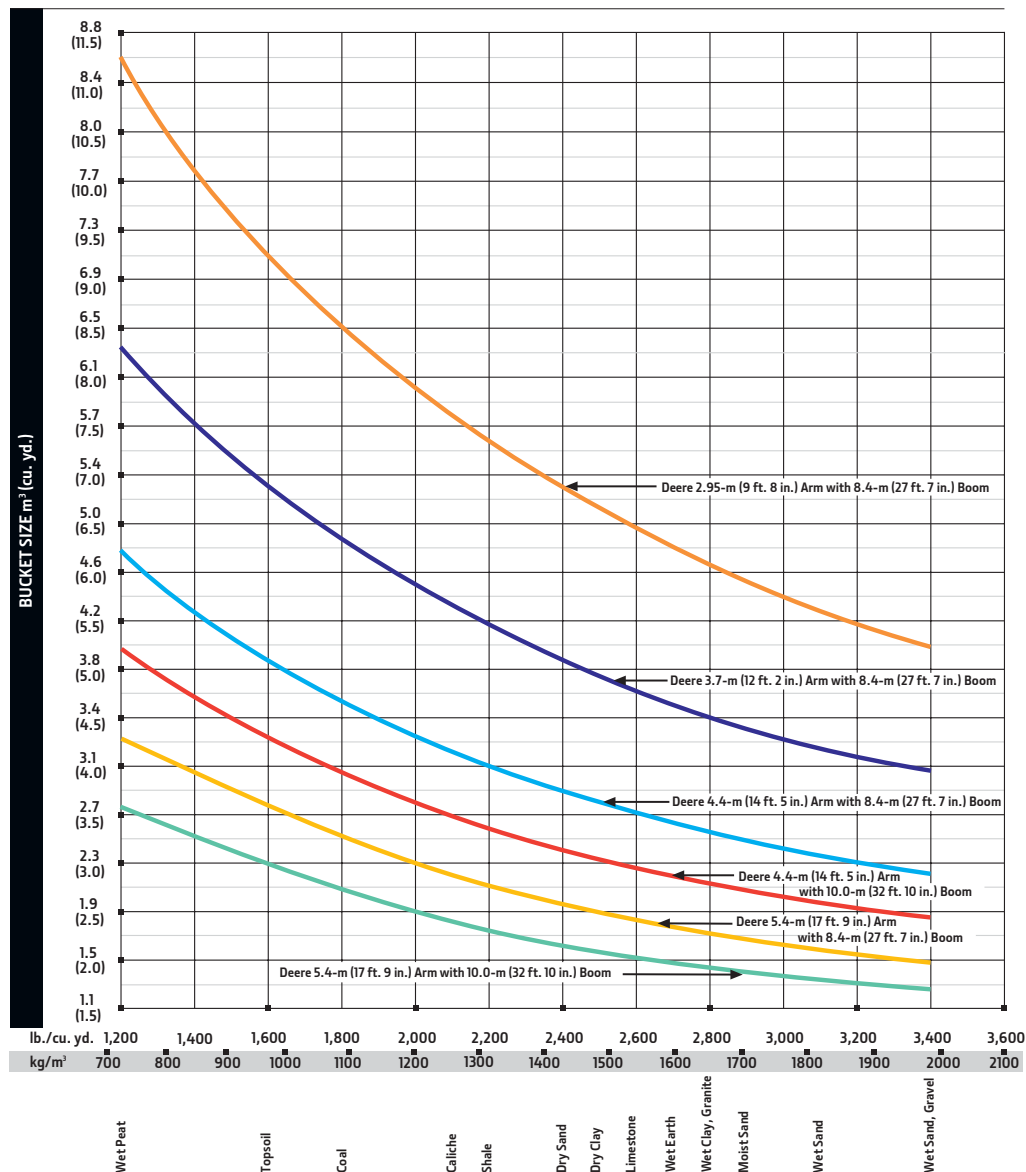
Buckets

870G LC

A full line of buckets is offered to meet a wide variety of applications. Digging forces are with power boost. Tooth selection includes the John Deere Fanggs™ or ESCO 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		Bucket Dig Force			
	mm	in.	m ³	cu. yd.	kg	lb.	(SAE) kN	lb.	(ISO) kN	lb.
Heavy Duty High Capacity	914	36	2.09	2.7	2767	6,100	360	80,973	369	82,855
	1067	42	2.55	3.3	2972	6,552	360	80,973	369	82,855
	1219	48	3.02	3.9	3177	7,004	360	80,973	369	82,855
	1372	54	3.49	4.6	3558	7,844	360	80,973	369	82,855
	1524	60	3.98	5.2	3572	7,875	360	80,973	369	82,855
	1829	72	4.96	6.5	3786	8,346	360	80,973	369	82,855
Heavy Capacity Dirt Heavy Duty	2032	80	5.63	7.4	4519	9,963	360	80,973	369	82,855
	2286	90	5.81	7.6	4296	9,471	341	76,746	379	85,298
	914	36	1.51	2.0	2510	5,534	372	83,647	414	92,967
	1067	42	1.86	2.4	2761	6,087	372	83,647	414	92,967
	1219	48	2.22	2.9	2935	6,471	372	83,647	414	92,967
	1372	54	2.58	3.4	3091	6,814	372	83,647	414	92,967
Truck Loading	1524	60	2.95	3.9	3232	7,125	372	83,647	414	92,967
	2134	84	4.21	5.5	3285	7,242	363	81,638	404	90,735
	2337	92	4.63	6.0	3598	7,932	363	81,638	404	90,735

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.

Arm Dig Force 4.4 m (14 ft. 5 in.)				Arm Dig Force 5.4 m (17 ft. 9 in.)				ME Arm Dig Force 2.95 m (9 ft. 8 in.)				Bucket Tip Radius		Number of Teeth
(SAE)		(ISO)		(SAE)		(ISO)		(SAE)		(ISO)				
kN	lb.	kN	lb.	kN	lb.	kN	lb.	kN	lb.	kN	lb.	mm	in.	
264	59,251	270	60,770	230	51,673	236	52,981	361	81,247	377	84,686	2426	95.53	3
264	59,251	270	60,770	230	51,673	236	52,981	361	81,247	377	84,686	2426	95.53	4
264	59,251	270	60,770	230	51,673	236	52,981	361	81,247	377	84,686	2426	95.53	4
264	59,251	270	60,770	230	51,673	236	52,981	361	81,247	377	84,686	2426	95.53	5
264	59,251	270	60,770	230	51,673	236	52,981	361	81,247	377	84,686	2426	95.53	5
264	59,251	270	60,770	230	51,673	236	52,981	361	81,247	377	84,686	2426	95.53	6
264	59,251	270	60,770	230	51,673	236	52,981	361	81,247	377	84,686	2426	95.53	6
268	60,338	275	61,885	275	61,782	307	69,050	370	83,150	386	86,669	2303	90.66	7
276	62,098	283	63,691	300	67,336	335	75,259	384	86,270	400	89,922	2113	83.19	3
276	62,098	283	63,691	300	67,336	335	75,259	384	86,270	400	89,922	2113	83.19	4
276	62,098	283	63,691	300	67,336	335	75,259	384	86,270	400	89,922	2113	83.19	4
276	62,098	283	63,691	300	67,336	335	75,259	384	86,270	400	89,922	2113	83.19	5
276	62,098	283	63,691	300	67,336	335	75,259	384	86,270	400	89,922	2113	83.19	5
274	61,607	281	63,186	238	53,456	244	54,809	380	85,393	396	89,008	2165	85.22	6
274	61,607	281	63,186	238	53,456	244	54,809	380	85,393	396	89,008	2165	85.22	8

Additional equipment

Key: ● Standard ▲ Optional or special

See your John Deere dealer for further information.

670G	870G	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)
●	●	Engine oil-sampling valve
●	●	Programmable auto shutdown
●	●	Fuel filter with water separator
●	●	Full-flow oil filter
●	●	Turbocharger with charge air cooler
●	●	Underhood selective catalytic reduction (SCR) after-treatment device less diesel particulate filter (DPF)
●	●	Cool-on-demand hydraulic-driven fan
●	●	Glow-plug start aid
●	●	500-hour engine-oil-change interval
●	●	70% (35 deg.) off-level capability
●	●	Hydraulic fan reverser
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
●	●	Hydraulic oil-sampling valve
▲	▲	Auxiliary pilot and electric controls
▲	▲	Load-lowering control device
▲	▲	Single-pedal propel control
▲	▲	Pattern changer
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 AutoShift
●	●	Upper carrier rollers (3)
●	●	Sealed and lubricated track chain
▲	▲	Double-bar grouser shoes, 650 mm (26 in.)
▲	▲	Double-bar grouser shoes, 750 mm (30 in.)
▲	▲	Double-bar grouser shoes, 900 mm (36 in.)
▲	▲	Double-bar grouser shoes, 1020 mm (40 in.)

670G	870G	Upperstructure
●	●	Right- 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
●	●	Lubricator with hose reel and grease gun
●	●	No-boom-arm option
▲	▲	Boom, 7.8 m (25 ft. 7 in.)
▲	▲	Boom, 8.4 m (27 ft. 7 in.)
▲	▲	Boom, mass excavating (ME), 6.8 m (22 ft. 4 in.)
▲	▲	Boom, ME, 7.1 m (23 ft. 4 in.)
▲	▲	Boom, reach, 10.0 m (32 ft. 10 in.)
▲	▲	Arm, 3.6 m (11 ft. 10 in.)
▲	▲	Arm, 3.7 m (12 ft. 2 in.)
▲	▲	Arm, 4.2 m (13 ft. 9 in.)
▲	▲	Arm, 4.4 m (14 ft. 5 in.)
▲	▲	Arm, 5.3 m (17 ft. 5 in.)
▲	▲	Arm, 5.4 m (17 ft. 9 in.)
▲	▲	Arm, ME, 2.9 m (9 ft. 6 in.)
▲	▲	Arm, ME, 2.95 m (9 ft. 8 in.)
▲	▲	Boom cylinder with plumbing to mainframe for no-boom-arm option
▲	▲	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
●	●	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
●	●	Hourmeter, electric

670G	870G	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) / Work modes (2) / 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
●	●	Fluid-level switch and indicator light for engine coolant and engine oil
●	●	Motion alarm with cancel switch (conforms to SAE J994)
●	●	Power-boost switch on right console lever
●	●	Propel pedals and levers
●	●	SAE 2-lever control pattern
●	●	Seat belt, 51 mm (2 in.), retractable
●	●	Tinted glass
●	●	Transparent tinted overhead hatch
●	●	Hot/cold beverage compartment
▲	▲	Monitor system with alarm features: 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
▲	▲	Cab extension wiring harness
Lights		
●	●	Work lights: Halogen / 2 mounted on boom / 1 mounted on frame / 2 mounted on top of cab

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 units with 1370-mm (54 in.) buckets, 900-mm (36 in.) double-bar grouser shoes, full fuel tanks, and 79-kg (175 lb.) operators; a 670G LC unit with 9800-kg (21,605 lb.) counterweight; and a 870G LC unit with 12 400-kg (27,337 lb.) counterweight.

