670 P

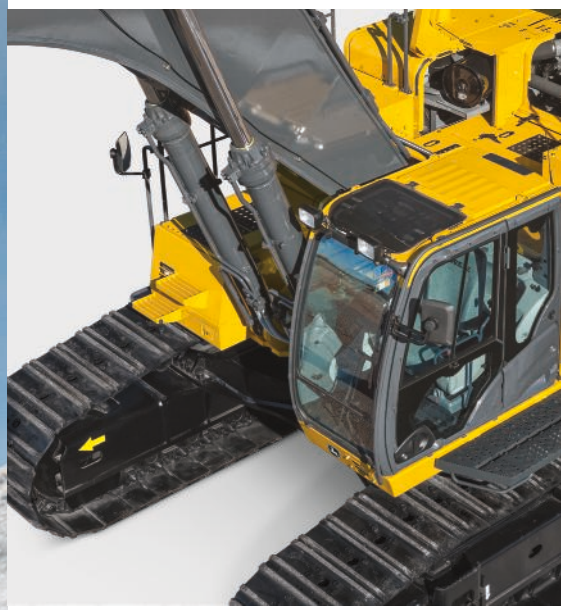
Excavator

JOHN DEERE

EXPECT BIG THINGS

When the task demands serious muscle to get things done, get a John Deere 670 P-Tier Excavator. The highly productive hydraulic flow matched with its EPA Final Tier 4 (FT4)/EU Stage IV diesel speeds work cycles to move more material on a gallon of fuel than previous models. And a standard camera array with LED-surround lighting lets you see your work in a whole new way. These are just a few of the customer-inspired ways this mighty machine goes big and beyond for your operation.

AUTO-IDLE & AUTO SHUTDOWN HELP
CONSERVE FUEL



Seeing is believing
Standard camera array with LED-surround lighting integrated into the main monitor work together to supplement 270-degree visibility of the area around the machine.

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

Balanced performance
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 engine rpm and helps save fuel.

The power of choice
Choose from a variety of configurations with different boom and arm lengths, buckets, and other productivity-boosting options.

Precision mechanics
Short-throw low-effort pilot controls, unmatched metering, and smooth multifunction operation give you the precision you need for work that requires extra finesse.

Take control
Multi-language LCD monitor and rotary dial provide intuitive access to machine information and functions. Ergonomically correct short-throw pilot levers provide smooth, predictable fingertip control with less movement or effort.

It hardly seems like work
With a wide expanse of front, side, and overhead glass and mirrors, visibility to the sides and rear is virtually unobstructed. Automatic, high-velocity, bi-level climate-control system with automotive-style adjustable louvers helps keep the glass clear and the cab comfortable. Sculpted and heated air-suspension high-back seat with 12.5 in. of travel slides with or independent of the joystick console.

Dig in
Exceptional swing torque, lift capacity, and arm and bucket digging forces provide generous muscle for mass excavating or hot truck loading. When conditions call for a little extra, simply press the power-boost button on the right-hand control and muscle through.

No need to think about it
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. Strutted links and large idlers and rollers help the sealed and lubricated heavy-duty undercarriage deliver long and reliable performance.

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

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. To maximize uptime and lower costs, JDLink also enables **John Deere Connected Support™.** Dealers use Expert Alerts based on data from thousands of connected machines 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.*

*Availability varies by region. Options not available in every country.

670 P-TIER EXCAVATOR SPECIFICATIONS

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.

Engine	**670 P-TIER**
Manufacturer and Model	Isuzu 6WG1-FT4
Non-Road Emission Standard	EPA Final Tier 4/EU Stage IV
Net Peak 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	**System Operating Pressure**	
Maximum Rated Flow	489 L/m (129 gpm) x 2	Implement Circuits	31 900 kPa (4,627 psi)
Pilot Pump	1 gear	Travel Circuits	34 300 kPa (4,975 psi)
Maximum Rated Flow	30 L/m (7.9 gpm)	Swing Circuits	29 400 kPa (4,264 psi)
Pressure Setting	3900 kPa (566 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)		**Track**	
Carrier	3	Adjustment	Hydraulic
Track	8	Guides	Front and center
Shoes, Double-Bar Grousers (each side)	47	Chain	Sealed and lubricated

Ground Pressure	
900-mm (36 in.) Double-Bar Grouser Shoes	75.3 kPa (10.9 psi)
Swing Mechanism	
Speed	9.1 rpm
Torque	206 000 Nm (151,938 lb.-ft.)

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

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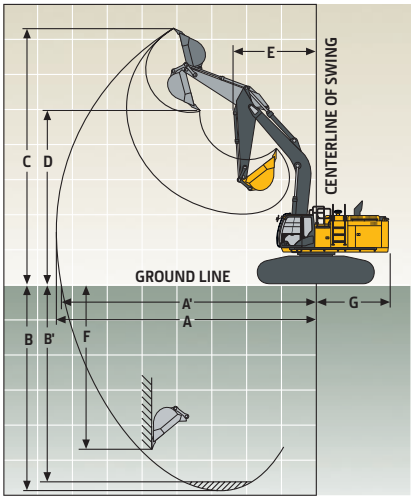
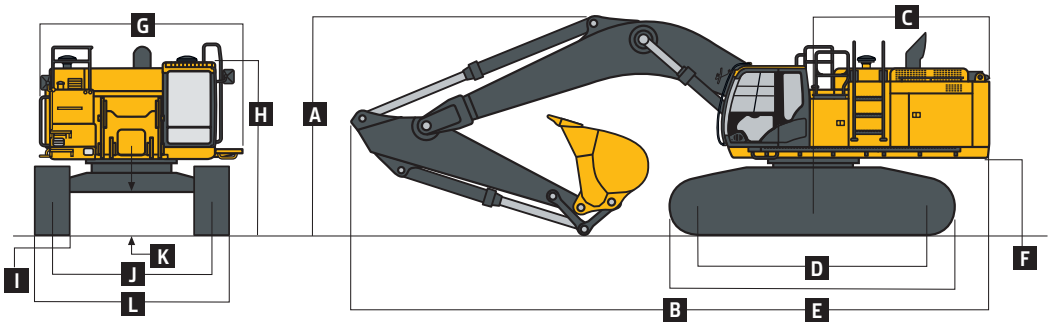
Operating Weights	670 P-TIER
With full fuel tank; 79-kg (175 lb.) operator; 3.09-m³ (4.04 cu. yd.), 1370-mm (54 in.), 3126-kg (6,892 lb.) bucket; 4.2-m (13 ft. 9 in.) arm; 9800-kg (21,605 lb.) counterweight; counterweight-removal device; and 900-mm (36 in.) double-bar grouser shoes	
SAE Operating Weight	69 900 kg (154,103 lb.)
Component Weights	
Undercarriage With 900-mm (36 in.) Double-Bar Grouser Shoes	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.)

Component Weights *(continued)*	
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.)
2.9-m (9 ft. 6 in.) ME Arm	3715 kg (8,190 lb.)
Boom-Lift Cylinders (2), Total Weight	1135 kg (2,502 lb.)

Operating Dimensions				
Boom Length		*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.)*	*2.9-m (9 ft. 6 in.) ME*
	Arm Digging Force			
	SAE	247 kN (55,528 lb.)	224 kN (50,357 lb.)	297 kN (66,768 lb.)
	ISO	255 kN (57,326 lb.)	231 kN (51,931 lb.)	306 kN (68,792 lb.)
	Bucket Digging Force			
	SAE	290 kN (65,195 lb.)	290 kN (65,195 lb.)	332 kN (74,637 lb.)
	ISO	324 kN (72,838 lb.)	324 kN (72,838 lb.)	369 kN (82,954 lb.)
A	Maximum Reach	13.25 m (43 ft. 6 in.)	13.85 m (45 ft. 5 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.)	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.)	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.)	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.)	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.)	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.)	5.24 m (17 ft. 2 in.)
F	Maximum Vertical Wall	7.38 m (24 ft. 3 in.)	8.18 m (26 ft. 10 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.)



Machine Dimensions				
Arm Length		*3.6 m (11 ft. 10 in.)*	*4.2 m (13 ft. 9 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.)	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.)	12.42 m (40 ft. 9 in.)
C	Rear-End Length/Tail-Swing Radius	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.)
E	Undercarriage Length	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.)
G	Upperstructure Width	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.)	3.55 m (11 ft. 8 in.)	3.55 m (11 ft. 8 in.)
I	Track Width With Double-Bar Grouser Shoes	900 mm (36 in.)	900 mm (36 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.)
	Transport Position	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.)
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.)
	Transport Position	3.73 m (12 ft. 3 in.)	3.73 m (12 ft. 3 in.)	3.73 m (12 ft. 3 in.)



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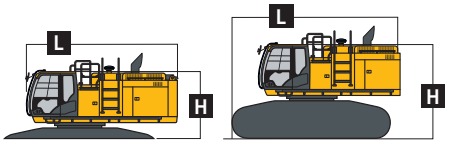
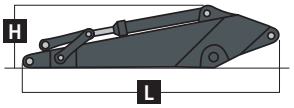
Packing Dimensions and Weights for Transportation	670 P-TIER			
	Length (L at right)	*Height (H at right)*	*Overall Width*	*Weight*
Base Machine (without front attachment and side frame)*	5.68 m (18 ft. 8 in.)	2.77 m (9 ft. 1 in.)	3.42 m (11 ft. 3 in.)	21 400 kg (47,179 lb.)
Side Frame (each) With 900-mm (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 (31 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 (31 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 (31 in.)	3840 kg (8,466 lb.)
Base Machine (without front attachment)*				
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 plus handrails on the upper battery box, upper fuel tank, and side hydraulic oil tank must be removed.*



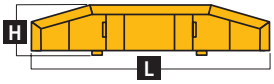
Base Machine — Less Boom, Arm, and Counterweight

Boom



Arm

Side Frame



Counterweight

Lift Capacities

Boldface type indicates hydraulically limited capacity; lightface type indicates stability-limited capacities, in kg (lb.). 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).

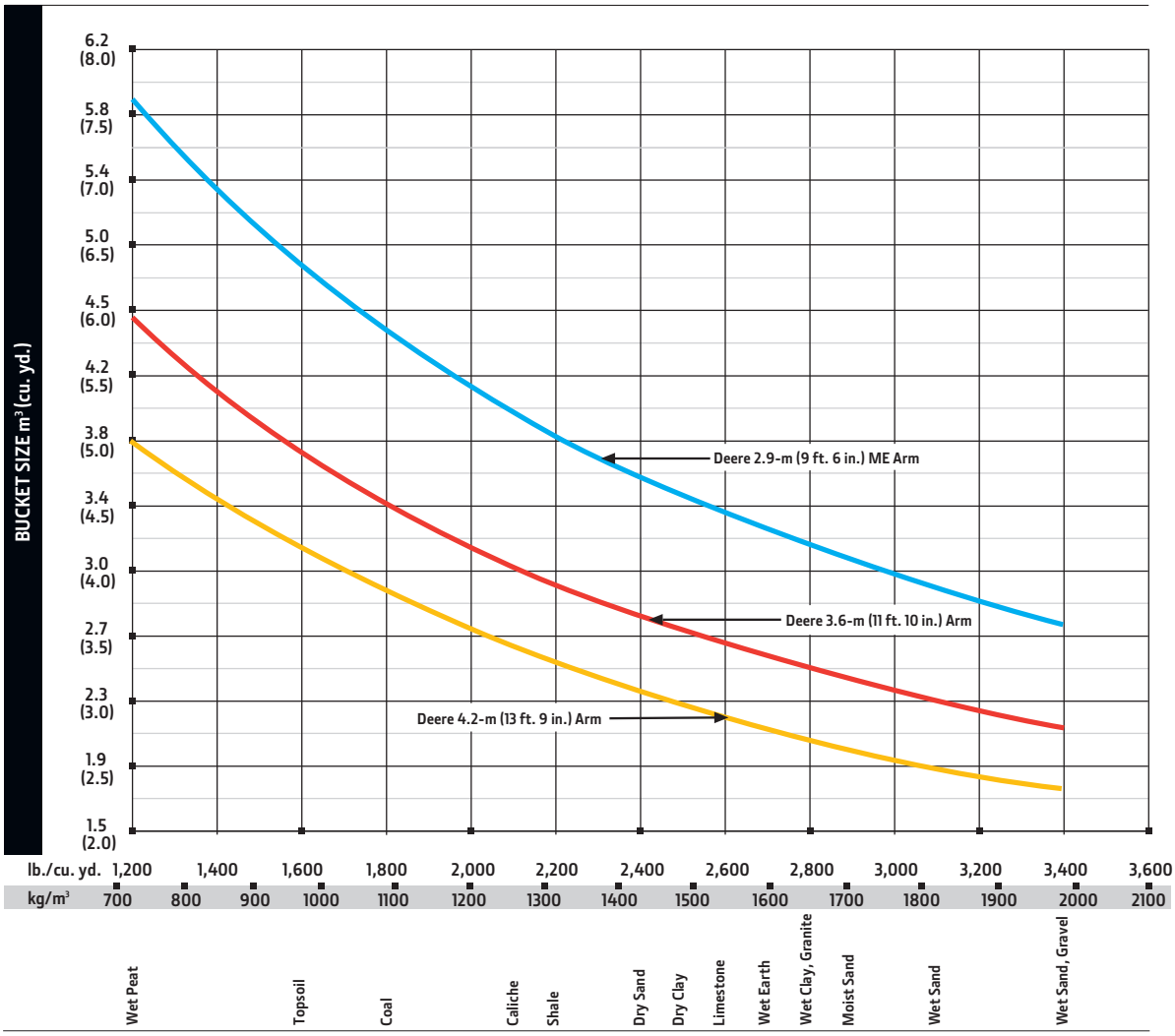
	HORIZONTAL DISTANCE FROM CENTERLINE OF ROTATION											
	3.0 m (10 ft.)		4.5 m (15 ft.)		6.0 m (20 ft.)		7.5 m (25 ft.)		9.0 m (30 ft.)		10.5 m (35 ft.)	
LOAD POINT HEIGHT	**Over Front**	**Over Side**	**Over Front**	**Over Side**	**Over Front**	**Over Side**	**Over Front**	**Over Side**	**Over Front**	**Over Side**	**Over Front**	**Over Side**
With 7.8-m (25 ft. 7 in.) boom, 3.6-m (11 ft. 10 in.) arm, and 900-mm (36 in.) double-bar grouser shoes, less bucket												
7.5 m (25 ft.)									**13 620 (29,870)**	**13 620 (29,870)**		
6.0 m (20 ft.)							**15 770 (34,220)**	**15 770 (34,220)**	**14 280 (31,150)**	13 640 (29,360)	**9850**	**9850**
4.5 m (15 ft.)					**21 630 (46,580)**	**21 630 (46,580)**	**17 550 (38,010)**	**17 340 (37,430)**	**15 260 (33,190)**	13 180 (28,420)	**13 680 (26,780)**	10 350 (22,260)
3.0 m (10 ft.)					**24 750 (53,370)**	22 690 (49,000)	**19 350 (41,880)**	16 520 **(35,660)**	**16 310 (35,420)**	12 710 (27,400)	14 040 (30,240)	10 100 (21,740)
1.5 m (5 ft.)					**26 790 (57,920)**	21 660 (46,730)	**20 760 (44,960)**	15 850 (34,210)	**17 190 (37,260)**	17 190 (26,510)	13 790 (29,710)	9860 (21,240)
Ground Line			**15 440 (35,760)**	**15 440 (35,760)**	**27 520 (59,630)**	21 130 (45,540)	**21 530 (46,650)**	15 410 (33,250)	16 960 (36,560)	11 990 (25,860)	13 610 (29,350)	9690 (20,900)
–1.5 m (–5 ft.)			**23 540 (53,840)**	**23 540 (53,840)**	**27 120 (58,830)**	20 960 (45,140)	**21 520 (42,680)**	15 200 (32,790)	16 800 (36,220)	11 840 (25,550)		
–3.0 m (–10 ft.)	**22 800 (51,420)**	**22 800 (51,420)**	**32 640 (70,890)**	**32 640 (70,890)**	**25 670 (55,630)**	21 040 (45,310)	**20 580 (44,510)**	15 210 (29,530)	**16 660 (35,830)**	11 870 (25,660)		
–4.5 m (–15 ft.)	**33 250 (75,310)**	**33 250 (75,310)**	**28 640 (61,950)**	**28 640 (61,950)**	**22 890 (49,360)**	21 370 (46,060)	**18 280 (39,170)**	15 460 (33,410)				
–6.0 m (–20 ft.)			**22 270 (47,460)**	**22 270 (47,460)**	**17 760 (37,470)**	**17 760 (37,470)**						

Lift Capacities ***(continued)*** **670 P-TIER**

Boldface type indicates hydraulically limited capacity; lightface type indicates stability-limited capacities, in kg (lb.). 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, and 900-mm (36 in.) double-bar grouser shoes, less bucket												
7.5 m (25 ft.)									**12 610 (27,640)**	**12 610 (27,640)**	**8510**	**8510**
6.0 m (20 ft.)									**13 390 (29,200)**	**13 390 (29,200)**	**11 660 (23,800)**	10 690 (22,960)
4.5 m (15 ft.)			**(58,100)**	**(58,100)**	**20 030 (43,150)**	**18 420 (23,120)**	**16 510 (35,750)**	**16 510 (35,750)**	**14 470 (31,460)**	13 310 (28,690)	**13 210 (28,840)**	10 430 (22,440)
3.0 m (10 ft.)					**23 380 (50,420)**	**21 780 (49,920)**	**18 450 (39,930)**	16 710 (36,070)	**15 630 (33,940)**	12 790 (27,580)	**13 870 (30,200)**	10 130 (21,810)
1.5 m (5 ft.)					**25 890 (55,950)**	21 910 (47,250)	**20 080 (43,490)**	15 960 (34,440)	**16 670 (36,160)**	12 320 (26,570)	13 780 (36,000)	9840 (21,210)
Ground Line			**16 460 (37,910)**	**16 460 (37,910)**	**27 160 (58,820)**	21 180 (45,640)	**21 140 (45,800)**	15 430 (33,270)	16 940 (36,510)	11 960 (25,790)	16 650 (35,910)	9620 (20,740)
–1.5 m (–5 ft.)	**13 030 (29,370)**	**13 030 (29,370)**	**22 220 (50,760)**	**22 220 (50,760)**	**27 270 (59,120)**	20 860 (44,920)	**21 460 (46,510)**	15 120 (32,610)	16 710 (36,000)	11 740 (25,320)	15 260 (32,430)	9500 (20,510)
–3.0 m (–10 ft.)	**20 040 (45,160)**	**20 040 (45,160)**	**30 280 (69,150)**	**30 280 (69,150)**	**26 320 (57,020)**	20 830 (44,850)	**20 940 (45,310)**	15 040 (32,440)	11 690 (35,910)	10 260 (25,230)		
–4.5 m (–15 ft.)	**28 400 (64,260)**	**28 400 (64,260)**	**30 860 (66,750)**	**30 860 (66,750)**	**24 150 (52,150)**	21 050 (45,350)	**19 290 (41,520)**	15 180 (32,770)	**13 570 (32,430)**	11 860 (25,680)		
–6.0 m (–20 ft.)			**25 480 (54,600)**	**25 480 (54,600)**	**20 160 (43,020)**	**20 160 (43,020)**	**15 260 (32,640)**	**15 580 (32,640)**				
With 6.8-m (22 ft. 4 in.) ME boom, 2.9-m (9 ft. 6 in.) ME arm, and 900-mm (36 in.) double-bar grouser shoes, less bucket												
7.5 m (25 ft.)							**16 800 (36,990)**	**16 800 (36,990)**				
6.0 m (20 ft.)					**19 730 (42,750)**	**19 730 (42,750)**	**17 550 (38,290)**	**17 550 (38,290)**				
4.5 m (15 ft.)					**22 670 (48,980)**	**22 670 (48,980)**	**18 970 (41,220)**	17 470 (37,660)	**17 010 (36,580)**	13 170 (28,340)		
3.0 m (10 ft.)					**25 630 (55,380)**	23 250 (50,170)	**20 540 (39,520)**	16 790 (36,220)	**17 690 (38,480)**	12 840 (27,670)		
1.5 m (5 ft.)					**27 630 (59,800)**	22 320 (48,120)	**21 750 (47,170)**	16 230 (35,020)	17 550 (37,810)	12 540 (27,050)		
Ground Line					**28 220 (61,180)**	21 830 (47,030)	**22 220 (48,170)**	15 880 (34,260)	17 360 (37,440)	12 370 (26,710)		
–1.5 m (–5 ft.)			**35 590 (77,370)**	34 410 (73,830)	**27 350 (59,290)**	21 710 (46,760)	**21 580 (46,670)**	15 780 (34,050)				
–3.0 m (–10 ft.)	**37 700 (85,520)**	**37 700 (85,520)**	**31 630 (68,560)**	**31 630 (68,560)**	**24 710 (53,360)**	21 920 (47,240)	**18 940 (40,310)**	16 010 (34,620)				
–4.5 m (–15 ft.)			**24 710 (52,860)**	**24 710 (52,860)**	**18 690 (39,160)**	**18 690 (39,160)**						

Bucket Selection Guide* 670 P-TIER



*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.

670 P	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) aftertreatment 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, 900 mm (36 in.)

670 P	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
●	No-boom-arm option
▲	Boom, 7.8 m (25 ft. 7 in.)
▲	Boom, mass excavating (ME), 6.8 m (22 ft. 4 in.)
▲	Arm, 3.6 m (11 ft. 10 in.)
▲	Arm, 4.2 m (13 ft. 9 in.)
▲	Arm, ME, 2.9 m (9 ft. 6 in.)
▲	Boom cylinder with plumbing to mainframe for no-boom-arm option
	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
●	Hydraulic shutoff lever, all controls
●	Hydraulic warm-up control
●	Interior light
●	Large cup holder
●	Machine Information Center (MIC)

670 P	Operator's Station *(continued)*
●	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
●	Right rear left 270-deg. camera system with LED surround lighting
●	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)
▲	Cab extension wiring harness
	Lights
●	LED work lights

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.) double-bar grouser shoes, 9800-kg (21,605 lb.) counterweight, full fuel tank, and 79-kg (175 lb.) operator.

ME670PAJ (22-08)

JOHN DEERE