17G

Compact Excavator

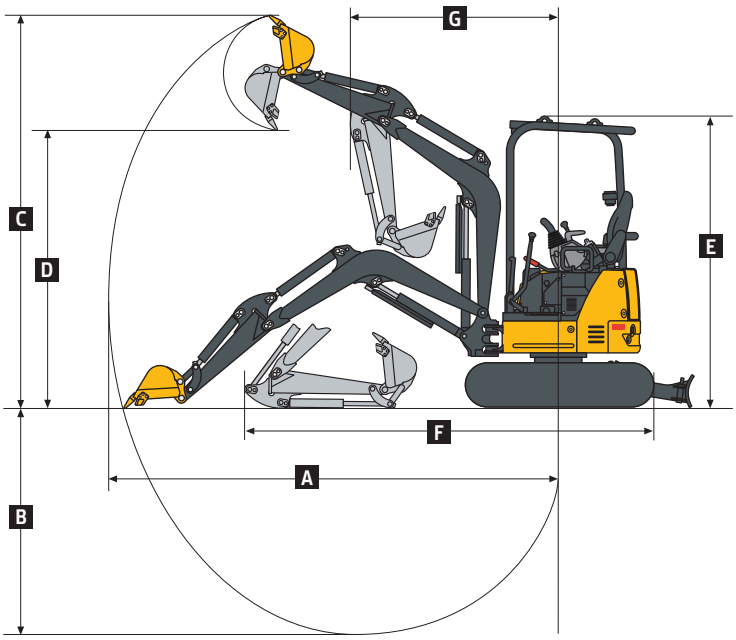
JOHN DEERE

17G *COMPACT EXCAVATOR SPECIFICATIONS*

Engine	**17G**		
Manufacturer and Model	Yanmar 3TNV74F	Displacement	0.99 L (61 cu. in.)
Non-Road Emission Standard	EPA Final Tier 4/EU Stage IV	Net Power (ISO 9249)	10.8 kW (14.5 hp) at 2,400 rpm
Powertrain			
Each track independently driven by hydrostatic axial-piston motor connected to 2-stage planetary gear reduction box			
Maximum Travel Speed		Swing Speed	9.4 rpm
Low	2.4 km/h (1.5 mph)	Swing Brake	Spring applied, hydraulically released, automatic
High	4.2 km/h (2.6 mph)		
Hydraulics			
Open center with 2 variable-displacement pumps, 1 fixed-gear pump, and 1 pilot pump		Auxiliary Flow	29.9 L/m (7.9 gpm)
Pump Flow		Controls	Hydraulic pilot operated for boom, arm, bucket, swing, boom swing, blade, travel, and auxiliary functions
Piston	2 x 19.2 L/m (2 x 5.1 gpm)		
Gear	10.98 L/m (2.9 gpm)		
Electrical			
Alternator Rating	40 amp		
Work Lights	1 mounted on boom		
Undercarriage			
Planetary final drive; 2-speed axial-piston propel motors			
Tracks, Rubber	230 mm (9 in.)		
Ground Pressure With Rubber Track	26.6 kPa (3.9 psi)		
Upperstructure			
Independent Swing Boom		Counterweight, Standard	120 kg (265 lb.)
Left	70 deg.	Rear Overhang	40 mm (2 in.)
Right	50 deg.		
Serviceability			
Refill Capacities		**Refill Capacities *(continued)***	
Fuel Tank	20.06 L (5.3 gal.)	Engine Oil With Filter	3.10 L (3.3 qt.)
Cooling System	2.7 L (2.9 qt.)	Hydraulic Tank	14.01 L (3.7 gal.)
Operating Weight			
With 0.93-m (3 ft. 1 in.) Standard Arm, Standard Counterweight, Rubber Track, Full Fuel Tank, and 79-kg (175 lb.) Operator	1720 kg (3,790 lb.)		

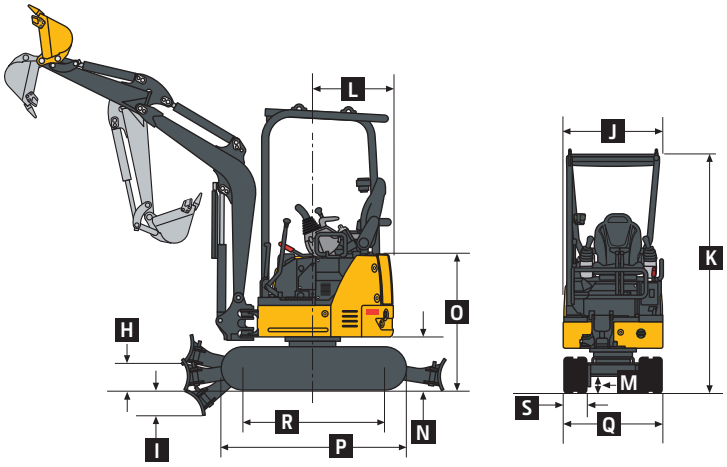
Operating Dimensions

		0.93-m (3 ft. 1 in.) Standard Arm and Standard Counterweight
A	Maximum Digging Reach	3.81 m (12 ft. 6 in.)
B	Maximum Digging Depth	2.19 m (7 ft. 2 in.)
C	Maximum Cutting Height	3.54 m (11 ft. 7 in.)
D	Maximum Dumping Height	2.51 m (8 ft. 3 in.)
E	Transport Height	2.38 m (7 ft. 10 in.)
F	Overall Length (blade in front)	3.50 m (11 ft. 6 in.)
G	Minimum Swing Radius	1.53 m (5 ft. 0 in.)
H	Blade Bottom Highest Position *(see line art at top right of page 7)*	0.29 m (11 in.)
I	Blade Bottom Lowest Position *(see line art at top right of page 7)*	0.23 m (9 in.)
	Boom-Swing Pivot-Offset Distance	0.11 m (4 in.)
	Offset Distance	
	Left	0.36 m (14 in.)
	Right	0.56 m (22 in.)
	Digging Force	
	Bucket	16.0 kN (3,597 lb.)
	Arm	8.6 kN (1,933 lb.)



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.

Machine Dimensions		17G
	Blade	
	Width	
	Minimum	0.98 m (3 ft. 3 in.)
	Maximum	1.28 m (4 ft. 2 in.)
	Height	260 mm (10.2 in.)
J	Upperstructure Width	0.99 m (3 ft. 3 in.)
K	Overall Height	2.38 m (7 ft. 10 in.)
L	Rear-End Swing Radius	0.68 m (2 ft. 3 in.)
M	Minimum Ground Clearance	0.165 m (6 in.)
N	Counterweight Height	0.45 m (18 in.)
O	Engine Cover Height	1.15 m (3 ft. 9 in.)
P	Undercarriage Length	1.57 m (5 ft. 2 in.)
Q	Undercarriage Width	
	Minimum	0.98 m (3 ft. 3 in.)
	Maximum	1.28 m (4 ft. 2 in.)
R	Sprocket Center to Idler Center	1.21 m (4 ft. 0 in.)
S	Track Shoe Width	0.23 m (9 in.)



Lift Capacities		
0.93-m (3 ft. 1 in.) Standard Arm, Standard Counterweight, and Rubber Track	*Over Front**	*Over Side*
Ground Level at 3.0-m (10 ft.) Radius	471 kg (1,015 lb.)	217 kg (470 lb.)

**Blade down (limited by hydraulics).*

Additional equipment

Key: ● Standard ▲ Optional or special — See your John Deere dealer for further information.

17G	Engine
●	Meets EPA Final Tier 4/EU Stage IV emissions
●	Engine coolant to –37 deg. C (–34 deg. F)
●	Engine preheater
●	Fan guard
●	Fuel/water separator
●	Full-flow oil filter
●	Isolation mounted
●	Key start switch with electric fuel shutoff
●	Single dry-type air filter
●	Under-hood muffler
	Hydraulic System
●	Auxiliary function foot control
●	Auxiliary hydraulic lines to end of boom
●	Axial-piston swing motor
●	Boom-swing foot control
●	Excavator-to-backhoe control pattern change valve
●	Open center with 2 variable-displacement pumps, 1 fixed-gear pump, and 1 pilot pump
●	Hydraulic pilot-operated controls for boom, arm, bucket, swing, boom swing, blade, and travel
●	Wet-disc swing brake

17G	Undercarriage
●	Hydraulic-adjustable variable width
●	Planetary final drive
●	Propel motor shield
●	2-speed axial-piston propel motors
●	Rubber track, 230 mm (9 in.)
	Upperstructure
●	360-deg. rotation
●	Counterweight, 120 kg (265 lb.)
●	Hinged service-access doors
●	ROPS/TOPS/FOPS (canopy)
●	Vandal protection for service doors and fuel cap
●	Reduced-tail-swing configuration
	Front Attachments
●	Arm, 0.93 m (3 ft. 1 in.)
●	Backfill blade, 0.98 m (3 ft. 3 in.) minimum to 1.28 m (4 ft. 2 in.) maximum
●	Boom, 1.82 m (6 ft. 0 in.)
●	Mechanical quick-coupler
▲	Augers: Chain drive / Bits / Bit adapters
▲	Clamp
▲	Hammers: Points / Tools
▲	Quick-coupler buckets: Bucket teeth / Ditching / Heavy-duty

17G	Operator's Station
●	Horn
●	Hour meter
●	Instrumentation lights
●	Monitor system: Preheat indicator / Engine oil pressure warning light / Alternator charge warning light / Fuel gauge and low-fuel-level indicator / Engine coolant warning light and alarm / Hour meter / Work lights indicator
●	Motion alarm with cancel switch
●	Work lights switch
●	Propel levers
●	2 travel speeds
●	Seat belt, 51 mm (2 in.), retractable
●	Suspension seat, vinyl, with fore/aft adjustment
▲	Front screen
	Electrical
●	12-volt accessory outlet
●	Alternator, 40 amp
●	Low-maintenance battery
●	Blade-type multi-fused circuits
●	Positive-terminal battery covers
	Lights
●	Work lights: 1 mounted on boom

Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan at test conditions per ISO 9249. These machines are not equipped with spark-arrestor mufflers. Usage in forestry applications is not recommended. 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 canopy unit with standard arm, 406-mm (16 in.) bucket, 230-mm (9 in.) rubber track, 120-kg (265 lb.) counterweight, full fuel tank, and 79-kg (175 lb.) operator.

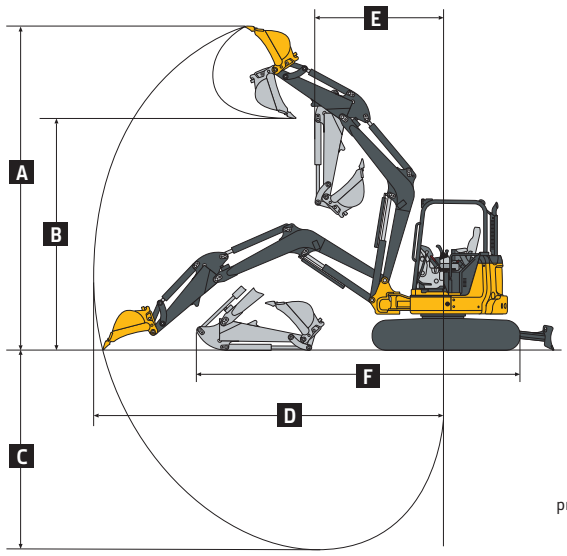
50G

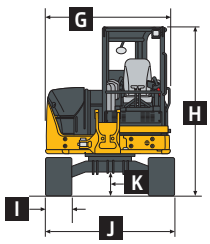
Compact Excavator

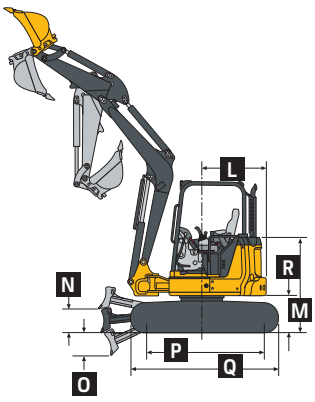
JOHN DEERE

50G *COMPACT EXCAVATOR SPECIFICATIONS*

Engine	**50G**			
Manufacturer and Model	Yanmar 4TNV88C		Displacement	2.19 L (134 cu. in.)
Non-Road Emission Standard	EPA Final Tier 4/EU Stage IV		Net Power (ISO 9249)	26.8 kW (35.9 hp) at 2,400 rpm
Powertrain				
Each track independently driven by hydrostatic axial-piston motor connected to 2-stage planetary gear-reduction box				
Maximum Travel Speed	Low: 2.5 km/h (1.6 mph) / High: 4.2 km/h (2.6 mph)			
Hydraulics				
Closed-center load sensing with 1 variable-displacement pump				
Pump Flow	120.0 L/m (31.7 gpm)		Controls	Hydraulic pilot-operated controls for boom, arm, bucket, swing, boom swing, blade, travel, and auxiliary functions
Auxiliary Flow	87.4 L/m (23.1 gpm)			
Electrical				
Alternator Rating	55 amp			
Work Lights	2 halogen: 1 mounted on operator's station and 1 mounted on boom			
Undercarriage				
Track, Rubber	400 mm (16 in.)			
Ground Pressure	*1380-mm (4 ft. 6 in.) Standard Arm and Standard Counterweight*		*1690-mm (5 ft. 7 in.) Long Arm and Extra Counterweight*	
	With Canopy	*With Cab*	*With Canopy*	*With Cab*
With Rubber Track	26.9 kPa (3.90 psi)	28.3 kPa (4.10 psi)	28.8 kPa (4.17 psi)	29.5 kPa (4.28 psi)
Upperstructure				
Swing Speed	9.0 rpm			
Independent Swing Boom				
Left	80 deg.			
Right	60 deg.			
Swing Brake	Spring applied, hydraulically released, automatic, disc type			
Serviceability				
Refill Capacities			**Refill Capacities *(continued)***	
Fuel Tank	70 L (18.5 gal.)		Engine Oil With Filter	8.6 L (9.1 qt.)
Cooling System	5.0 L (5.3 qt.)		Hydraulic Tank	56 L (14.8 gal.)
Operating Weights				
	1380-mm (4 ft. 6 in.) Standard Arm and Standard Counterweight		*1690-mm (5 ft. 7 in.) Long Arm and Extra Counterweight*	
	With Canopy	*With Cab*	*With Canopy*	*With Cab*
With 400-mm (16 in.) Rubber Track, Straight Blade, Full Fuel Tank, and 79-kg (175 lb.) Operator	4790 kg (10,560 lb.)	4920 kg (10,847 lb.)	5018 kg (11,063 lb.)	5148 kg (11,349 lb.)
Optional Angle Blade	409 kg (902 lb.)	409 kg (902 lb.)	409 kg (902 lb.)	409 kg (902 lb.)
Counterweight				
Standard	700 kg (1,543 lb.)	700 kg (1,543 lb.)	700 kg (1,543 lb.)	700 kg (1,543 lb.)
Additional	200 kg (441 lb.)	200 kg (441 lb.)	200 kg (441 lb.)	200 kg (441 lb.)
Operating Dimensions				
	1380-mm (4 ft. 6 in.) Standard Arm and Canopy	*1380-mm (4 ft. 6 in.) Standard Arm and Cab*	*1690-mm (5 ft. 7 in.) Long Arm and Canopy*	*1690-mm (5 ft. 7 in.) Long Arm and Cab*
A Maximum Cutting Height	5.75 m (18 ft. 10 in.)	5.75 m (18 ft. 10 in.)	6.00 m (19 ft. 8 in.)	6.00 m (19 ft. 8 in.)
B Maximum Dumping Height	4.07 m (13 ft. 4 in.)	4.07 m (13 ft. 4 in.)	4.31 m (14 ft. 2 in.)	4.31 m (14 ft. 2 in.)
C Maximum Digging Depth	3.53 m (11 ft. 7 in.)	3.53 m (11 ft. 7 in.)	3.83 m (12 ft. 7 in.)	3.83 m (12 ft. 7 in.)
D Maximum Digging Reach	5.96 m (19 ft. 7 in.)	5.96 m (19 ft. 7 in.)	6.26 m (20 ft. 6 in.)	6.26 m (20 ft. 6 in.)
E Minimum Front Swing Radius	2.21 m (7 ft. 3 in.)	2.21 m (7 ft. 3 in.)	2.30 m (7 ft. 7 in.)	2.30 m (7 ft. 7 in.)
F Transport Length	5.47 m (17 ft. 11 in.)	5.47 m (17 ft. 11 in.)	5.52 m (18 ft. 1 in.)	5.52 m (18 ft. 1 in.)
Digging Force (ISO)				
Arm	24.0 kN (5,401 lb.)	24.0 kN (5,401 lb.)	21.0 kN (4,718 lb.)	21.0 kN (4,718 lb.)
Bucket	36.8 kN (8,267 lb.)	36.8 kN (8,267 lb.)	36.8 kN (8,267 lb.)	36.8 kN (8,267 lb.)







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.

Machine Dimensions *(see line art at bottom right of page 6)*		50G
G	Upperstructure Width	1.85 m (6 ft. 1 in.)
H	Overall Height	
	Canopy	2.53 m (8 ft. 4 in.)
	Cab	2.53 m (8 ft. 4 in.)
I	Track Width	400 mm (16 in.)
J	Undercarriage Width	2.00 m (6 ft. 7 in.)
K	Ground Clearance	340 mm (13 in.)
L	Tail Swing Radius	
	With Standard Arm	1.00 m (39 in.)
	With Long Arm and Extra Counterweight	1.10 m (43 in.)
M	Engine Cover Height	1.59 m (5 ft. 3 in.)
N	Maximum Blade Lift Above Ground	460 mm (18 in.)
O	Maximum Blade Drop Below Ground	360 mm (14 in.)
	Blade	
	Width	2.00 m (6 ft. 7 in.)
	Height	375 mm (15 in.)
P	Sprocket Center to Idler Center	2.00 m (6 ft. 7 in.)
Q	Track Length	2.50 m (8 ft. 2 in.)
R	Counterweight Clearance	610 mm (24 in.)

Lift Capacities

Boldface type indicates hydraulically limited capacity; lightface type indicates stability-limited capacities, in kg (lb.). All lift capacities are based on ISO 10567 (with power boost). Lifting measurement from center of arm to bucket pin; with 400-mm (16 in.) track shoe and blade on ground; and situated on firm, level, uniform supporting surface. Total load includes weight of cables, hook, etc. Figures do not exceed 87 percent of hydraulic capacities or 75 percent of weight needed to tip machine.

	Canopy and Standard Counterweight		*Cab and Standard Counterweight*		*Canopy and Extra Counterweight*		*Cab and Extra Counterweight*	
Ground Level at 3.05-m (10 ft.) Radius	*Over Front**	*Over Side*	*Over Front**	*Over Side*	*Over Front**	*Over Side*	*Over Front**	*Over Side*
1380-mm (4 ft. 6 in.) Standard Arm	2511 kg (5,531 lb.)	1110 kg (2,444 lb.)	2511 kg (5,531 lb.)	1150 kg (2,534 lb.)	2511 kg (5,531 lb.)	1232 kg (2,714 lb.)	2511 kg (5,531 lb.)	1273 kg (2,803 lb.)
1690-mm (5 ft. 7 in.) Long Arm	2477 kg (5,456 lb.)	1088 kg (2,396 lb.)	2477 kg (5,456 lb.)	1129 kg (2,486 lb.)	2477 kg (5,456 lb.)	1210 kg (2,666 lb.)	2477 kg (5,456 lb.)	1251 kg (2,755 lb.)

**Blade down (limited by hydraulics).*

Additional equipment

Key: ● Standard ▲ Optional or special

See your John Deere dealer for further information.

50G	Engine
●	Meets EPA Final Tier 4/EU Stage IV emissions
●	Auto shutdown
●	Engine coolant to –37 deg. C (–34 deg. F)
●	Engine preheater
●	Fan guard
●	Fuel/water separator
●	Full-flow oil filter
●	Isolation mounted
●	Key start switch with electric fuel shutoff
●	Single dry-type air filter
	Hydraulic System
●	Auto-idle
●	Auxiliary function right-hand pilot-lever control
●	Auxiliary hydraulic lines with quick-couplers to end of boom
●	Auxiliary return-flow selector valve
●	Axial-piston swing motor
●	Boom-swing foot control
●	Excavator-to-backhoe control pattern change valve
●	Closed center load sensing with 1 variable-displacement pump
●	Hydraulic pilot-operated controls for boom, arm, bucket, swing, boom swing, blade, travel, and auxiliary functions
●	Wet-disc swing brake
	Undercarriage
●	Planetary final drive
●	Propel motor shield
●	2-speed axial-piston propel motors

50G	Undercarriage *(continued)*
●	Rubber track, 400 mm (16 in.)
▲	Steel track, 400 mm (16 in.) with triple semi-grousers
▲	Rubber crawler pad, 400 mm (16 in.)
	Upperstructure
●	360-deg. rotation
●	Counterweight, 700 kg (1,543 lb.)
●	Hinged service-access doors
●	Toolbox
●	ROPS/TOPS/FOPS (canopy)
▲	ROPS/TOPS/FOPS (cab) with air conditioning and heater
●	Vandal protection for service doors, fuel cap, and toolbox
●	Zero-tail-swing configuration
	Front Attachments
●	Arm, 1380 mm (4 ft. 6 in.)
▲	Long arm, 1690 mm (5 ft. 7 in.), includes additional 200-kg (441 lb.) counterweight
●	Articulation hose shield
●	Backfill blade, 2.00 m (6 ft. 7 in.)
▲	Hydraulic angle backfill blade
●	Boom, 2.85 m (9 ft. 4.2 in.)
●	Mechanical quick-coupler
▲	Augers: Planetary / Chain drive / Bits / Bit adapters
▲	Clamp
▲	Hammers: Points / Tools
▲	Quick-coupler buckets: Bucket teeth / Ditching / Heavy-duty

50G	Operator's Station
●	Horn
●	Hour meter
●	Instrumentation lights
●	Mode selectors (illuminated): Power mode (1) / Economy mode (1)
●	Monitor system: Preheat indicator / Engine oil pressure indicator with alarm / Alternator voltage indicator / Fuel gauge and low-fuel-level indicator / Engine coolant temperature gauge and engine coolant temperature indicator with alarm / Hour meter / Work lights indicator
●	Motion alarm with cancel switch
●	Work lights switch
●	Propel levers and foldable pedals
●	2 travel speeds with automatic shifting
●	Seat belt, 51 mm (2 in.), retractable
▲	Seat belt, 76 mm (3 in.), retractable
●	Vinyl seat with fore/aft adjustment
▲	Suspension seat (cloth)
▲	Front screen
▲	Rear secondary exit kit
	Electrical
●	12-volt accessory outlet
●	Alternator, 55 amp
●	Low-maintenance battery
●	Blade-type multi-fused circuits
●	Positive-terminal battery covers
	Lights
●	Work lights: Halogen / 1 mounted on operator's station / 1 mounted on boom

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

Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan at test conditions per ISO 9249. These machines are not equipped with spark-arrestor mufflers. Usage in forestry applications is not recommended. 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 canopy unit with standard arm; 610-mm (24 in.), 0.16-m^3 (5.7 cu. ft.) bucket; 400-mm (16 in.) rubber track; and 700-kg (1,543 lb.) counterweight; full fuel tank; and 79-kg (175 lb.) operator.

60G

Compact Excavator

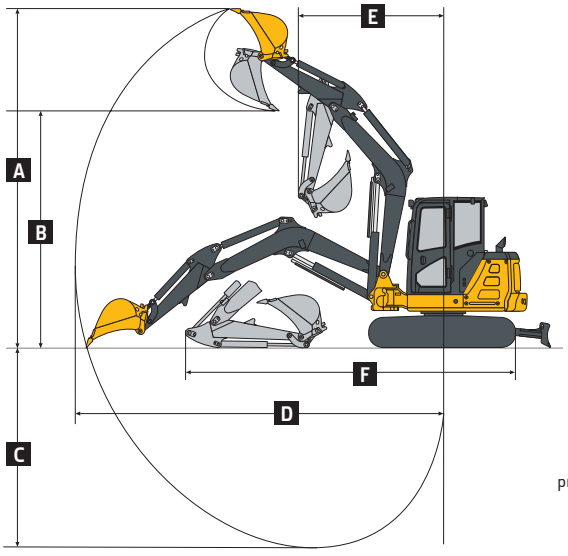
JOHN DEERE

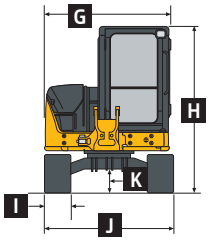
60G COMPACT EXCAVATOR SPECIFICATIONS

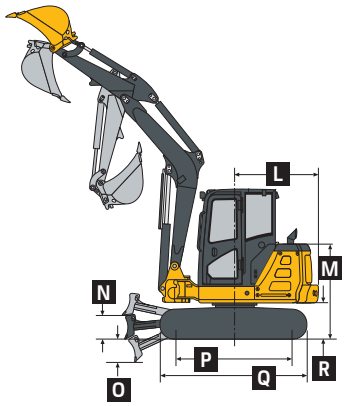
Engine	**60G**		
Manufacturer and Model	Yanmar 4TNV98C-WHB	Displacement	3.32 L (203 cu. in.)
Non-Road Emission Standard	EPA Final Tier 4/EU Stage IV	Net Rated Power (ISO 9249)	39.6 kW (53 hp) at 2,000 rpm
Powertrain			
2-speed propel with automatic shift; each track independently driven by hydrostatic axial-piston motor connected to 2-stage planetary gear-reduction box			
Maximum Travel Speed	Slow: 2.9 km/h (1.8 mph) / Fast: 4.8 km/h (3.0 mph)		
Hydraulics			
Open-center, pilot-operated			
Main Pumps	1 variable-displacement pump	Controls	2 hydraulic pilot-operated controls for boom, arm, bucket, swing, boom swing, travel, and auxiliary functions
Maximum Rated Flow	144 L/m (38.0 gpm)		
Auxiliary Maximum Rated Flow	91.5 L/m (24.2 gpm)		
Electrical			
Alternator Rating	55 amp		
Work Lights	2 halogen: 1 mounted on operator's station and 1 mounted on boom		
Undercarriage			
Track Shoe Width, Standard Configuration	400 mm (16 in.)		
Ground Pressure	*1500-mm (4 ft. 11 in.) Standard Arm*		*1850-mm (6 ft. 1 in.) Long Arm (add counterweight)*	
	With Canopy	*With Cab*	*With Canopy*	*With Cab*
With 400-mm (16 in.) Rubber Track	34 kPa (4.9 psi)	35 kPa (5.1 psi)	36 kPa (5.2 psi)	36 kPa (5.2 psi)
Upperstructure				
Swing Speed, Right/Left	9.5 rpm			
Maximum Boom Swing Angle				
Left	80 deg.			
Right	60 deg.			
Swing Brake	Spring applied, hydraulically released, automatic, disc type			
Serviceability				
Refill Capacities		**Refill Capacities *(continued)***	
Fuel Tank	120 L (31.7 gal.)	Engine Oil With Filter	11.2 L (3 gal.)
Engine Coolant	7.7 L (2 gal.)	Hydraulic Tank	80 L (21.1 gal.)

Operating Weights	*1500-mm (4 ft. 11 in.) Standard Arm and 400-mm (12 in.) Track*				*1850-mm (6 ft. 1 in.) Long Arm and 400-mm (12 in.) Track*			
	With Canopy Rubber	*With Canopy Steel*	*With Cab Rubber*	*With Cab Steel*	*With Canopy Rubber*	*With Canopy Steel*	*With Cab Rubber*	*With Cab Steel*
With 745-kg (1,642 lb.) Counterweight; 762-mm (30 in.), 204-kg (450 lb.) Bucket; Full Fuel Tank; and 75-kg (165 lb.) Operator	6010 kg (13,250 lb.)	6110 kg (13,470 lb.)	6180 kg (13,620 lb.)	6280 kg (13,850 lb.)	6040 kg (13,320 lb.)	6140 kg (13,540 lb.)	6210 kg (13,690 lb.)	6310 kg (13,910 lb.)
Angle Blade	458 kg (1,010 lb.)		458 kg (1,010 lb.)		458 kg (1,010 lb.)		458 kg (1,010 lb.)	
Counterweight								
Standard (including hardware)	745 kg (1,642 lb.)		745 kg (1,642 lb.)		745 kg (1,642 lb.)		745 kg (1,642 lb.)	
Additional	270 kg (595 lb.)		270 kg (595 lb.)		270 kg (595 lb.)		270 kg (595 lb.)	

Operating Dimensions	*1500-mm (4 ft. 11 in.) Standard Arm*	*1850-mm (6 ft. 1 in.) Long Arm*
A Maximum Cutting Height	5.96 m (19 ft. 7 in.)	6.19 m (20 ft. 4 in.)
B Maximum Dumping Height	4.17 m (13 ft. 8 in.)	4.41 m (14 ft. 6 in.)
C Maximum Digging Depth	3.77 m (12 ft. 4 in.)	4.12 m (13 ft. 6 in.)
D Maximum Digging Reach	6.23 m (20 ft. 5 in.)	6.56 m (21 ft. 6 in.)
E Minimum Boom Swing Radius	2.45 m (8 ft. 0 in.)	2.54 m (8 ft. 4 in.) with additional counterweight
F Transport Length	5.76 m (18 ft. 11 in.)	5.79 m (19 ft. 0 in.)
Digging Force (ISO), HCM Bucket (788.1-mm [31 in.] tip radius)		
Arm	31.1 kN (6,990 lb.)	27.0 kN (6,060 lb.)
Bucket	41.1 kN (9,240 lb.)	41.1 kN (9,240 lb.)







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.

Machine Dimensions *(see line art at bottom right of page 6)*		60G			
G	Upperstructure Width	1.93 m (6 ft. 4 in.)	**N**	Maximum Blade Lift Above Ground	450 mm (18 in.)
H	Overall Height (canopy or cab)	2.54 m (8 ft. 4 in.)	**O**	Maximum Blade Drop Below Ground	390 mm (15 in.)
I	Track Width	400 mm (16 in.)		Blade	
J	Undercarriage Width	2.00 m (6 ft. 7 in.)		Width	2.00 m (6 ft. 7 in.)
K	Ground Clearance	325 mm (13 in.)		Height	420 mm (17 in.)
L	Tail Swing Radius		**P**	Sprocket Center to Idler Center	1.99 m (6 ft. 6 in.)
	With Standard Counterweight	1.30 m (4 ft. 3 in.)	**Q**	Undercarriage Length	2.50 m (8 ft. 2 in.)
	With Additional Counterweight	1.41 m (4 ft. 8 in.)	**R**	Counterweight Clearance	620 mm (24 in.)
M	Engine Cover Height	1.60 m (5 ft. 3 in.)			

Lift Capacities

Boldface type indicates hydraulically limited capacity; lightface type indicates stability-limited capacities, in kg (lb.). All lift capacities are based on ISO 10567 (with power boost). Lifting measurement from center of arm to bucket pin; with 400-mm (16 in.) track shoe and blade on ground; and situated on firm, level, uniform supporting surface. Total load includes weight of cables, hook, etc. Figures do not exceed 87 percent of hydraulic capacities or 75 percent of weight needed to tip machine.

	Rubber Track and Standard Counterweight		*Steel Track and Standard Counterweight*		*Rubber Track and Extra Counterweight*		*Steel Track and Extra Counterweight*	
Ground Level at 3.0-m (9 ft. 10 in.) Radius	*Over Front*	*Over Side*	*Over Front*	*Over Side*	*Over Front*	*Over Side*	*Over Front*	*Over Side*
1500-mm (4 ft. 11 in.) Standard Arm and Cab	**3880 kg (8,550 lb.)**	1500 kg (3,310 lb.)	**3880 kg (8,550 lb.)**	1520 kg (3,350 lb.)	**3880 kg (8,550 lb.)**	1690 kg (3,730 lb.)	**3880 kg (8,550 lb.)**	1720 kg (3,790 lb.)
1850-mm (6 ft. 1 in.) Long Arm and Cab	**3810 kg (8,400 lb.)**	1480 kg (3260 lb.)	**3810 kg (8,400 lb.)**	1500 kg (3,310 lb.)	**3810 kg (8,400 lb.)**	1680 kg (3,700 lb.)	**3810 kg (8,400 lb.)**	1700 kg (3,750 lb.)
1500-mm (4 ft. 11 in.) Standard Arm and Canopy	**3880 kg (8,550 lb.)**	1420 kg (3,130 lb.)	**3880 kg (8,550 lb.)**	1420 kg (3,130 lb.)	**3880 kg (8,550 lb.)**	1620 kg (3,570 lb.)	**3880 kg (8,550 lb.)**	1620 kg (3,570 lb.)
1850-mm (6 ft. 1 in.) Long Arm and Canopy	**3820 kg (8,420 lb.)**	1400 kg (3,090 lb.)	**3820 kg (8,420 lb.)**	1400 kg (3,090 lb.)	**3820 kg (8,420 lb.)**	1600 kg (3,530 lb.)	**3820 kg (8,420 lb.)**	1610 kg (3,550 lb.)

Additional equipment

Key: ● Standard ▲ Optional or special — See your John Deere dealer for further information.

60G	**Engine**
●	Meets EPA Final Tier 4/EU Stage IV emissions
●	Auto shutdown
●	Engine coolant to –37 deg. C (–34 deg. F)
●	Engine preheater
●	Fan guard
●	Fuel/water separator
●	Full-flow oil filter
●	Isolation mounted
●	Key start switch with electric fuel shutoff
●	Single dry-type air filter
	Hydraulic System
●	Auto-idle
●	Auxiliary function right-hand pilot-lever control
●	Auxiliary hydraulic lines with quick-couplers to end of boom
●	Auxiliary return-flow selector valve
●	Axial-piston swing motor
●	Boom-swing foot control
●	Excavator-to-backhoe control pattern change valve
●	Closed center load sensing with 1 variable-displacement pump
●	Hydraulic pilot-operated controls for boom, arm, bucket, swing, boom swing, blade, travel, and auxiliary functions
●	Wet-disc swing brake
	Undercarriage
●	Planetary final drive
●	Propel motor shield
●	2-speed axial-piston propel motors

60G	**Undercarriage *(continued)***
●	Rubber track, 400 mm (16 in.)
▲	Steel track, 400 mm (16 in.) with triple semi-grousers
▲	Rubber crawler pad, 400 mm (16 in.)
	Upperstructure
●	360-deg. rotation
●	Counterweight, 745 kg (1,642 lb.)
●	Hinged service-access doors
●	Toolbox
▲	ROPS/TOPS/FOPS (canopy)
●	ROPS/TOPS/FOPS (cab) with air conditioning and heater
●	Vandal protection for service doors, fuel cap, and toolbox
●	Reduced-tail-swing configuration
	Front Attachments
●	Arm, 1500 mm (4 ft. 11 in.)
▲	Long arm, 1850 mm (6 ft. 1 in.), includes additional 270-kg (595 lb.) counterweight
●	Articulation hose shield
●	Backfill blade, 2.00 m (6 ft. 7 in.)
▲	Hydraulic angle backfill blade
●	Boom, 2.965 m (9 ft. 9 in.)
●	Mechanical quick-coupler
▲	Augers: Planetary / Chain drive / Bits / Bit adapters
▲	Clamp
▲	Hammers: Points / Tools
▲	Quick-coupler buckets: Bucket teeth / Ditching / Heavy-duty

60G	**Operator's Station**
●	Horn
●	Hour meter
●	Instrumentation lights
●	Mode selectors (illuminated): Power mode (1) / Economy mode (1)
●	Monitor system: Preheat indicator / Engine oil pressure indicator with alarm / Alternator voltage indicator / Fuel gauge and low-fuel-level indicator / Engine coolant temperature gauge and engine coolant temperature indicator with alarm / Hour meter / Work lights indicator
●	Motion alarm with cancel switch
●	Work lights switch
●	Propel levers and foldable pedals
●	2 travel speeds with automatic shifting
●	Seat belt, 51 mm (2 in.), retractable
▲	Seat belt, 76 mm (3 in.), retractable
▲	Vinyl seat with fore/aft adjustment
●	Suspension seat (cloth)
▲	Front screen
▲	Rear secondary exit kit
	Electrical
●	12-volt accessory outlet
●	Alternator, 55 amp
●	Low-maintenance battery
●	Blade-type multi-fused circuits
●	Positive-terminal battery covers
	Lights
●	Work lights: Halogen / 1 mounted on operator's station / 1 mounted on boom

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

Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan at test conditions per ISO 9249. These machines are not equipped with spark-arrestor mufflers. Usage in forestry applications is not recommended. 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 cab unit with standard arm, 0.19-m^3 (6.8 cu. ft.) bucket, 400-mm (16 in.) rubber track, 745-kg (1,642 lb.) counterweight, full fuel tank, and 79-kg (175 lb.) operator.

G-SERIES

EXCAVATORS

JOHN DEERE

75G / 85G

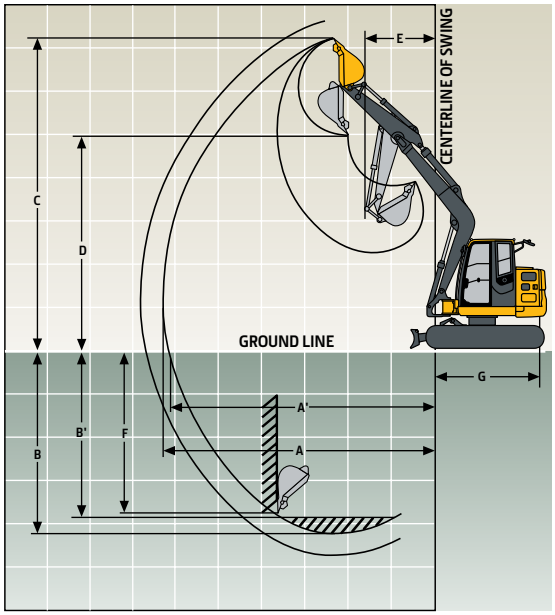
BRIDGE THE GAP

85G SPECIFICATIONS

Engine	**85G**		
Manufacturer and Model	Yanmar 4TNV98C-WHBW		
Non-Road Emission Standard	EPA Final Tier 4/EU Stage IV		
Net Power (ISO 9249)	42.4 kW (56.9 hp) at 2,000 rpm		
Cylinders	4		
Displacement	3.3 L (202 cu. in.)		
Aspiration	Natural		
Off-Level Capacity	70% (35 deg.)		
Cooling			
Variable-speed fan; viscous clutch			
Powertrain			
2-speed propel with automatic shift			
Maximum Travel Speed			
Low	3.1 km/h (1.9 mph)		
High	5.0 km/h (3.1 mph)		
Drawbar Pull	6650 kgf (14,661 lb.)		
Hydraulics			
Open center, load sensing			
Main Pumps	3 variable-displacement axial-piston pumps		
Maximum Pump Flow	2 x 72 + 56 L/m (2 x 19 + 15 gpm)		
Pilot Pump	1 gear		
Maximum Rated Flow	20 L/m (5.3 gpm)		
System Relief Pressure	3900 kPa (566 psi)		
System Operating Pressure			
Implement Circuits	26 000 kPa (3,771 psi)		
Travel Circuits	31 400 kPa (4,554 psi)		
Swing Circuits	25 000 kPa (3,626 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 (1)	115 mm (4.5 in.)	65 mm (2.6 in.)	885 mm (34.8 in.)
Arm (1)	95 mm (3.7 in.)	60 mm (2.4 in.)	900 mm (35.4 in.)
Bucket (1)	85 mm (3.3 in.)	55 mm (2.2 in.)	730 mm (28.7 in.)
Electrical			
Batteries	2 x 12 volt		
Battery Capacity	2 x 450 CCA		
Alternator Rating	50 amp		
Work Lights	2 halogen: 1 mounted on boom and 1 mounted on frame		
Undercarriage			
Rollers (each side)			
Carrier	1		
Track	5		
Shoes (each side)	40		
Track			
Adjustment	Hydraulic		
Chain	Sealed and lubricated		
Swing Mechanism			
Swing Speed	10.5 rpm		
Swing Torque	16 600 Nm (12,244 lb.-ft.)		
Boom Swing			
Left	60 deg.		
Right	60 deg.		

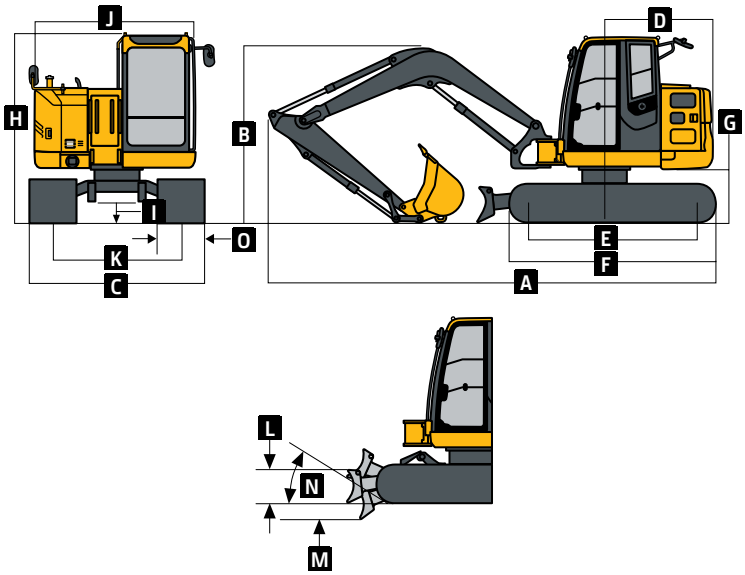
85G SPECIFICATIONS

Ground Pressure	**85G**
450-mm (18 in.) Rubber Crawler Pads	41.5 kPa (6.0 psi)
450-mm (18 in.) Continuous Rubber Belt	41.4 kPa (6.0 psi)
450-mm (18 in.) Triple Semi-Grouser Shoes	41.3 kPa (6.0 psi)
600-mm (24 in.) Triple Semi-Grouser Shoes	31.7 kPa (4.6 psi)
Serviceability	
Refill Capacities	
Fuel Tank	120 L (31.7 gal.)
Cooling System	9.7 L (2.6 gal.)
Engine Oil with Filter	12.3 L (3.2 gal.)
Hydraulic Tank	56 L (15 gal.)
Hydraulic System	103 L (27 gal.)
Propel Gearbox (each)	1.2 L (1.3 qt.)
Operating Weights	
With 0.31-m^3 (0.41 cu. yd.), 762-mm (30 in.), 313-kg (691 lb.) Bucket; 2.12-m (6 ft. 11 in.) Arm; 1408-kg (3,104 lb.) Counterweight; Full Fuel Tank; and 75-kg (165 lb.) Operator	
2220-mm (7 ft. 3 in.) Blade and 450-mm (18 in.) Rubber Crawler Pads	8729 kg (19,244 lb.)
2220-mm (7 ft. 3 in.) Blade and 450-mm (18 in.) Triple Semi-Grouser Shoes	8677 kg (19,130 lb.)
2470-mm (8 ft. 1 in.) blade and 600-mm (24 in.) Triple Semi-Grouser Shoes	8874 kg (19,564 lb.)
2220-mm (7 ft. 3 in.) Blade and 450-mm (18 in.) Continuous Rubber Belt	8701 kg (19,182 lb.)
Optional Components	
Undercarriage (with the following)	
450-mm (18 in.) Rubber Crawler Pads	2871 kg (6,329 lb.)
450-mm (18 in.) Continuous Rubber Belt	2843 kg (6,268 lb.)
450-mm (18 in.) Triple Semi-Grouser Shoes	2819 kg (6,215 lb.)
600-mm (24 in.) Triple Semi-Grouser Shoes	2970 kg (6,548 lb.)
1-Piece Boom (with arm cylinder)	491 kg (1,082 lb.)
2.12-m (6 ft. 11 in.) Arm with Bucket Cylinder and Linkage	275 kg (606 lb.)
Boom Lift Cylinder	89 kg (196 lb.)
0.49-m^3 (0.64 cu. yd.), 1219-mm (48 in.) Ditching Bucket	330 kg (728 lb.)
Counterweight (standard)	1408 kg (3,104 lb.)
Operating Dimensions	
	Arm Length 2.12 m (6 ft. 11 in.)
Arm Digging Force (ISO)	30.7 kN (6,902 lb.)
Bucket Digging Force (ISO)	46.6 kN (10,476 lb.)
A Maximum Reach	7.70 m (25 ft. 3 in.)
A[1] Maximum Reach at Ground Level	7.55 m (24 ft. 9 in.)
B Maximum Digging Depth	4.51 m (14 ft. 10 in.)
B[1] Maximum Digging Depth at 2.44-m (8 ft.) Flat Bottom	4.20 m (13 ft. 9 in.)
C Maximum Cutting Height	7.14 m (23 ft. 5 in.)
D Maximum Dumping Height	5.08 m (16 ft. 8 in.)
E Minimum Swing Radius	2.89 m (9 ft. 6 in.)
F Maximum Vertical Wall	4.05 m (13 ft. 3 in.)
G Tail Swing Radius	1.49 m (4 ft. 11 in.)



85G

Machine Dimensions		85G
		Arm Length 2.12 m (6 ft. 11 in.)
A	Overall Length	6.82 m (22 ft. 5 in.)
B	Overall Height with 450-mm (18 in.) Rubber Crawler Pads	2.61 m (8 ft. 7 in.)
C	Undercarriage Width	
	With 450-mm (18 in.) Shoes	2.20 m (7 ft. 3 in.)
	With 600-mm (24 in.) Shoes	2.35 m (7 ft. 9 in.)
D	Rear-End Length/Swing Radius	1.49 m (4 ft. 11 in.)
E	Distance Between Idler/Sprocket Centerline	2.29 m (7 ft. 6 in.)
F	Undercarriage Length	2.92 m (9 ft. 7 in.)
G	Counterweight Clearance	0.72 m (28 in.)
H	Cab Height	2.53 m (8 ft. 4 in.)
I	Ground Clearance	360 mm (14 in.)
J	Upperstructure Width	2.32 m (7 ft. 7 in.)
K	Gauge Width	1.75 m (5 ft. 9 in.)
L	Blade Lift Height	340 mm (13 in.)
	Blade Height	460 mm (18 in.)
	Blade Width	
	With 450-mm (18 in.) Shoes	2200 mm (7 ft. 3 in.)
	With 600-mm (24 in.) Shoes	2350 mm (7 ft. 9 in.)
M	Blade Cut Below Grade	320 mm (13 in.)
N	Blade Lift Angle	26 deg.
O	Track Width	
	With 450-mm (18 in.) Shoes	0.45 m (18 in.)
	With 600-mm (24 in.) Shoes	0.60 m (24 in.)



Lift Capacities

Boldface type indicates hydraulically limited capacities; lightface type indicates stability-limited capacities, in kg (lb.). Ratings are at bucket lift hook, using standard counterweight, situated on firm, level, uniform supporting surface. Total load includes weight of cables, hook, etc. Figures do not exceed 87% of hydraulic capacity or 75% of weight needed to tip machine. All lift capacities are based on ISO 10567.

	HORIZONTAL DISTANCE FROM CENTERLINE OF ROTATION							
	1.5 m (5 ft.)		3.0 m (10 ft.)		4.5 m (15 ft.)		6.0 m (20 ft.)	
LOAD POINT HEIGHT	**Over Front**	**Over Side**	**Over Front**	**Over Side**	**Over Front**	**Over Side**	**Over Front**	**Over Side**
With 3.67-m (12 ft. 2 in.) boom, 2.12-m (6 ft. 11 in.) arm, 0.28-m³ (0.37 cu. yd.) bucket, 450-mm (18 in.) rubber pads, and 2200-mm (7 ft. 3 in.) blade								
4.5 m (15 ft.)					**1735 (3,825)**	1656 (3,651)		
3.0 m (10 ft.)					**2044 (4,506)**	1597 (3,521)	**1809 (3,988)**	1022 (2,253)
1.5 m (5 ft.)					**2619 (5,773)**	1488 (3,280)	**1968 (4,339)**	986 (2,174)
Ground Line			**2577 (5,682)**	2445 (5,391)	**2992 (6,597)**	1403 (3,092)	**2069 (4,561)**	952 (2,098)
–1.5 m (–5 ft.)	**2683 (5,914)**	**2683 (5,914)**	**4770 (10,516)**	2448 (5,397)	**2868 (6,322)**	1377 (3,036)		
–3.0 m (–10 ft.)			**3130 (7,012)**	3130 (5,560)				
With 3.67-m (12 ft. 2 in.) boom, 2.12-m (6 ft. 11 in.) arm, 0.28-m³ (0.37 cu. yd.) bucket, 600-mm (24 in.) shoes, and 2470-mm (8 ft. 1 in.) blade								
4.5 m (15 ft.)					**1735 (3,825)**	1679 (3,702)		
3.0 m (10 ft.)					**2044 (4,506)**	1620 (3,572)	**1809 (3,988)**	1038 (2,289)
1.5 m (5 ft.)					**2619 (5,773)**	1511 (3,332)	**1968 (4,339)**	1002 (2,210)
Ground Line			**2577 (5,682)**	2485 (5,479)	**2992 (6,597)**	1426 (3,143)	**2069 (4,561)**	968 (2,134)
–1.5 m (–5 ft.)	**2683 (5,914)**	**2683 (5,914)**	**4770 (10,516)**	2488 (5,485)	**2868 (6,322)**	1400 (3,087)		
–3.0 m (–10 ft.)			**3130 (7,012)**	3130 (5,647)				

Lift Capacities *(continued)* 85G

Boldface type indicates hydraulically limited capacities; lightface type indicates stability-limited capacities, in kg (lb.). Ratings are at bucket lift hook, using standard counterweight, situated on firm, level, uniform supporting surface. Total load includes weight of cables, hook, etc. Figures do not exceed 87% of hydraulic capacity or 75% of weight needed to tip machine. All lift capacities are based on ISO 10567.

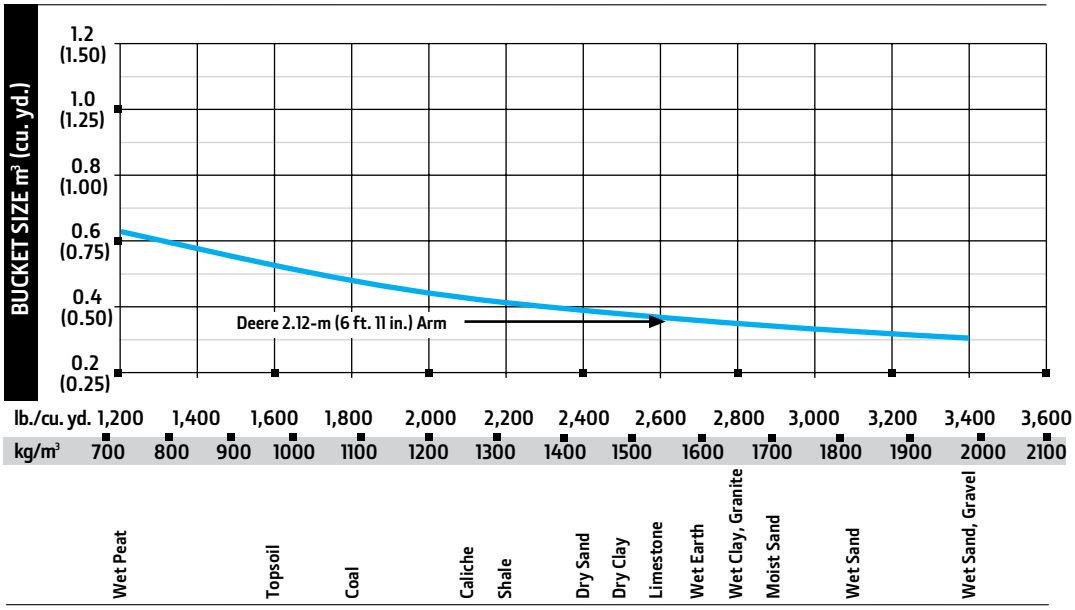
	HORIZONTAL DISTANCE FROM CENTERLINE OF ROTATION							
	1.5 m (5 ft.)		3.0 m (10 ft.)		4.5 m (15 ft.)		6.0 m (20 ft.)	
LOAD POINT HEIGHT	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
With 3.67-m (12 ft. 2 in.) boom, 2.12-m (6 ft. 11 in.) arm, less bucket, 450-mm (18 in.) continuous rubber belt, and 2200-mm (7 ft. 3 in.) blade								
4.5 m (15 ft.)					**1728** **(3,810)**	1579 (3,480)		
3.0 m (10 ft.)					**2050** **(4,520)**	1520 (3,350)	**1805** **(3,980)**	971 (2,140)
1.5 m (5 ft.)					**2626** **(5,790)**	1411 (3,110)	**1969** **(4,340)**	934 (2,060)
Ground Line			**2595** **(5,720)**	2309 (5,090)	**2994** **(6,600)**	1329 (2,930)	**2068** **(4,560)**	903 (1,990)
–1.5 m (–5 ft.)	**2708** **(5,970)**	**2708** **(5,970)**	**4758** **(10,490)**	2309 (5,090)	**2862** **(6,310)**	1306 (2,880)		
–3.0 m (–10 ft.)			**3139** **(6,920)**	2386 (5,260)				

Buckets

A full line of buckets is offered to meet a wide variety of applications. Replaceable cutting edges are available through John Deere Parts. Optional side cutters add 150 mm (6 in.) to bucket widths.

Type Bucket	Bucket Width		Bucket Capacity		Bucket Weight		Bucket Dig Force (ISO)		Arm Dig Force (ISO) 2.12 m (6 ft. 11 in.)		Bucket Tip Radius		Number of Teeth
	mm	in.	m^3	cu. yd.	kg	lb.	kN	lb.	kN	lb.	mm	in.	
Heavy Duty	610	24	0.31	0.40	287	633	54	12,061	32	7,162	1087	42.80	5
	762	30	0.41	0.53	333	735	54	12,061	32	7,162	1087	42.80	6
	914	36	0.50	0.66	380	837	54	12,061	32	7,162	1087	42.80	7
Ditching	1219	48	0.49	0.64	330	727	64	14,344	33	7,473	907	35.69	0

Bucket Selection Guide*



*Contact your John Deere dealer for optimum bucket and attachment selections. These recommendations are for general conditions and average use. Does not include optional equipment such as thumbs or couplers. Larger buckets may be possible when using light materials, for flat and level operations, less compacted materials, and volume loading applications such as mass-excavation applications in ideal conditions. Smaller buckets are recommended for adverse conditions such as off-level applications, rocks, and uneven surfaces. Bucket capacity indicated is SAE heaped.

Additional equipment

Key: ● Standard ▲ Optional or special — See your John Deere dealer for further information.

75G	85G	Engine
●	●	Auto-idle system
●	●	Batteries (2 – 12 volt)
●	●	Coolant recovery tank
●	●	Single-element air filter
●	●	Electronic engine control
●	●	Enclosed fan guard (conforms to SAE J1308)
●	●	Engine coolant to –37 deg. C (–34 deg. F)
●	●	Fuel filter with water separator
●	●	Full-flow oil filter
●	●	Radiator and oil cooler with dust-protective net
●	●	Glow-plug start aid
●	●	500-hour engine oil-change interval
●	●	70% (35 deg.) off-level capacity
●	●	Isolation mounted
		Hydraulic System
●	●	Reduced-drift valve for boom down, arm in
●	●	Auxiliary hydraulic valve section
●	●	Spring-applied, hydraulically released automatic swing brake
●	●	5,000-hour hydraulic oil-change interval
●	●	Auxiliary hydraulics
●	●	Control pattern-change valve
▲	▲	Hydraulic filter restriction indicator kit
▲	▲	Load-lowering control device
▲	▲	Single-pedal propel control
		Undercarriage
●	●	Planetary drive with axial piston motors
●	●	Propel motor shields
●	●	Spring-applied, hydraulically released automatic propel brake
●	●	2-speed propel with automatic shift
●	●	Upper carrier roller (1)
●	●	Sealed and lubricated track chain
●	●	Undercarriage with blade
▲	▲	Triple semi-grouser shoes, 450 mm (18 in.)
▲	▲	Triple semi-grouser shoes, 600 mm (24 in.)
▲	▲	Rubber crawler pads, 450 mm (18 in.)
▲	▲	Rubber belt, continuous, 450 mm (18 in.)

75G	85G	Upperstructure
●		Counterweight, 1305 kg (2,877 lb.)
	●	Counterweight, 1408 kg (3,104 lb.)
●	●	Right- and left-hand mirrors
●	●	Vandal locks with ignition key: Cab door / Engine hood / Fuel cap / Service doors
●	●	Remote-mounted fuel filters
		Front Attachments*
●	●	Centralized lubrication system
●	●	Dirt seals on all bucket pins
●	●	Oil-impregnated bushings
●	●	Reinforced resin thrust plates
●	●	Tungsten carbide thermal coating on arm-to-bucket joint
●	●	Arm, 2.12 m (6 ft. 11 in.)
▲	▲	Attachment quick-couplers
▲	▲	Buckets: Ditching / Heavy duty / Heavy-duty high capacity / Side cutters and teeth
		Operator's Station
●	●	Meets ISO 12117-2 for ROPS
●	●	Adjustable independent control positions (seat-to-pedals)
●	●	AM/FM radio
●	●	Auto climate control/air conditioner with heater and pressurizer
●	●	Built-in operator's manual storage compartment and manual
●	●	Cell-phone power outlet, 12 volt, 60 watt, 5 amp
●	●	Coat hook
●	●	Deluxe cloth suspension seat with adjustable armrests
●	●	Floor mat
●	●	Front windshield wiper with inter-mittent speeds
●	●	Gauges (illuminated): Engine coolant / Fuel
●	●	Horn, electric
●	●	Hour meter, electric
●	●	Hydraulic shutoff lever, all controls
●	●	Hydraulic warm-up control
●	●	Interior light

75G	85G	Operator's Station *(continued)*
●	●	Large cup holder
●	●	Machine Information Center (MIC)
●	●	Mode selectors (illuminated): Power modes (2) / Travel modes (2 with automatic shift) / Work mode (1)
●	●	Multifunction, color LCD monitor with: Diagnostic capability / Multiple-language capabilities / Maintenance tracking / Clock / System monitoring with alarm features: Auto-idle indicator, engine air cleaner restriction indicator light, engine check, engine coolant temperature indicator light with audible alarm, engine oil pressure indicator light with audible alarm, low-alternator-charge indicator light, low-fuel indicator light, fault-code alert indicator, fuel-rate display, wiper-mode indicator, work-lights-on indicator, and work-mode indicator
●	●	Motion alarm with cancel switch (conforms to SAE J994)
●	●	Auxiliary hydraulic control switches in right console lever
●	●	SAE 2-lever control pattern
●	●	Seat belt, 51 mm (2 in.), retractable
●	●	Tinted glass
●		Transparent tinted overhead hatch
	●	Transparent tinted overhead window
●	●	Hot/cold beverage compartment
▲	▲	Seat belt, 76 mm (3 in.), non-retractable
▲	▲	Protection screens for cab front, rear, and side
▲		Window vandal-protection covers
		Electrical
●	●	50-amp alternator
●	●	Blade-type multi-fused circuits
●	●	Positive-terminal battery covers
		Lights
●	●	Work lights: Halogen / 1 mounted on boom / 1 mounted on frame

Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan at test conditions specified per ISO 9249. No derating is required up to 3050-m (10,000 ft.) altitude. Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with SAE standards. Except where otherwise noted, these specifications are based on units with standard equipment; 0.31-m^3 (0.41 cu. yd.), 762-mm (30 in.), 313-kg (691 lb.) buckets; 450-mm (18 in.) rubber crawler pad shoes; 2.12-m (6 ft. 11 in.) arms; full fuel tanks; and 75-kg (165 lb.) operators; a 75G unit with 1305-kg (2,877 lb.) counterweight; and an 85G unit with 1408-kg (3,104 lb.) counterweight.

FLUID CAPACITIES		
Engine Lubrication	10.8 qt	(10.2 L)
Cooling System	14.8 qt	(14.0 L)
Fuel Tank Capacity	33.8 gal	(128.0 L)
Fuel Consumption (65% of Full Load)	2.4 gal / hr	(9.1 L / hr)
Hydraulic Reservoir Capacity	19.3 gal	(73.0 L)
Hydraulic System Capacity	37.0 gal	(140.0 L)

TB290 Dimensions

MACHINE DIMENSIONS		
Maximum Reach	24 ft 5.0 in	(7,435 mm)
Maximum Reach at Ground Level	23 ft 11.2 in	(7,290 mm)
Maximum Digging Depth	15 ft 0.0 in	(4,580 mm)
Maximum Vertical Digging Depth	12 ft 6.4 in	(3,820 mm)
Maximum Dig Height	23 ft 11.1 in	(7,290 mm)
Maximum Dumping Height	17 ft 3.0 in	(5,260 mm)
Front Swing Radius	8 ft 2.0 in	(2,495 mm)
Front Swing Radius with Boom Offset	6 ft 8.0 in	(2,030 mm)
Tail Swing (Slew) Radius	5 ft 5.0 in	(1,650 mm)

Operating Weight - Cab (Rubber)	18,630 lb	(8,450 kg)
Operating Weight - Cab (Steel)	19,145 lb	(8,685 kg)
Max Bucket Breakout Force	16,565 lb	(7,514 kg)
Max Arm Digging Force	8,161 lb	(3,702 kg)
Arm Length	7 ft 0.0 in	(2,130 mm)
Slew Speed	10.3 rpm	
Traction Force	19,780 lb	(8,972 kg)
Ground Pressure - Cab (Rubber)	5.5 psi	(37.9 kPa)
Ground Pressure - Cab (Steel)	4.8 psi	(33.1 kPa)
Travel Speed - Low Range	1.6 mph	(2.6 km / hr)
Travel Speed - High Range	3.1 mph	(5.0 km / hr)
HYDRAULIC SYSTEM		
Total Hydraulic Flow	62.5 gpm	(236.6 L / min)
Auxiliary Flow - Primary Circuit	26.4 gpm	(100.0 L / min)
Auxiliary Flow - Secondary Circuit	14.5 gpm	(55.0 L / min)
Hydraulic System Pressure	3,990 psi	(27.5 MPa)
ENGINE		
Make / Model	Yanmar / 4TNV98CT	
Displacement	202 cu in	(3.3 L)

Ground Clearance	1 ft 3.0 in	(385 mm)
Undercarriage Length	9 ft 4.0	(2,855 mm)
Track Width (Rubber)	17.7 in	(450 mm)
Undercarriage Width	7 ft 3.0 in	(2,210 mm)

This link leads to the machine-readable files that are made available in response to the federal Transparency in Coverage Rule and includes negotiated service rates and out-of-network allowed amounts between health plans and healthcare providers. The machine readable files are formatted to allow researchers, regulators, and application developers to more easily access and analyze data.

135 P

Excavator

JOHN DEERE

135

P

135 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	**135 P-TIER**		
	Base engine for use in the U.S., U.S. Territories, and Canada		
Manufacturer and Model	Isuzu 4JJ1		
Non-Road Emission Standard	EPA Final Tier 4/EU Stage IV		
Net Rated Power (ISO 9249)	75 kW (101 hp) at 2,000 rpm		
Cylinders	4		
Displacement	3.0 L (182 cu. in.)		
Off-Level Capacity	70% (35 deg.)		
Aspiration	Turbocharged, air-to-air charge-air cooler		
Cooling			
Direct-drive suction-type fan			
Powertrain			
2-speed propel with automatic shift			
Maximum Travel Speed			
Low	3.4 km/h (2.1 mph)		
High	5.5 km/h (3.4 mph)		
Drawbar Pull	11 217 kg (24,729 lb.)		
Hydraulics			
Open center, pilot operated			
Main Pumps	2 variable-displacement axial-piston pumps		
Maximum Rated Flow	105 L/m (28 gpm) x 2		
Pilot Pump	1 gear		
Maximum Rated Flow	32.9 L/m (8.7 gpm)		
Pressure Setting	3930 kPa (570 psi)		
System Operating Pressure			
Circuits			
Implement	34 300 kPa (4,975 psi)		
Travel	34 800 kPa (5,047 psi)		
Swing	32 300 kPa (4,685 psi)		
Power Boost	36 300 kPa (5,265 psi)		
Controls	Pilot levers, short stroke, low-effort hydraulic pilot controls with shutoff lever		
Cylinders			
	Bore	*Rod Diameter*	*Stroke*
Boom (2)	105 mm (4.13 in.)	70 mm (2.76 in.)	941 mm (37.05 in.)
Arm (1)	115 mm (4.53 in.)	80 mm (3.15 in.)	1135 mm (44.69 in.)
Bucket (1)	100 mm (3.94 in.)	70 mm (2.76 in.)	875 mm (34.45 in.)
Electrical			
Number of Batteries (12 volt)	2		
Battery Capacity	300 CCA		
Alternator Rating	50 amp		
Work Lights	2 LED (1 mounted on boom, 1 on frame)		
Undercarriage			
Rollers (per side)			
Carrier	1		
Track	7		
Shoes (per side)	44		
Track			
Adjustment	Hydraulic		
Guides	Front idler		
Chain	Sealed and lubricated		

135 P-TIER EXCAVATOR SPECIFICATIONS

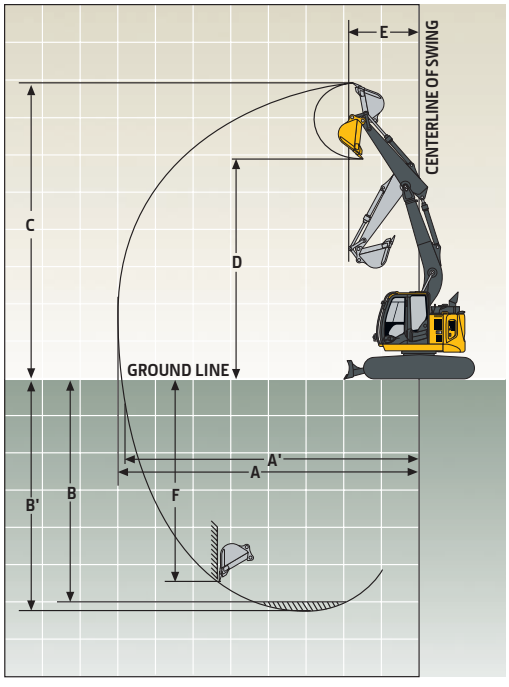
While general information, pictures, and descriptions are provided, some illustrations and text may include product options and accessories NOT AVAILABLE in all regions, and in some countries products and accessories may require modifications or additions to ensure compliance with the local regulations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

Ground Pressure	**135 P-TIER**	
	Without Blade	*With Blade*
Rubber Crawler Pad, 500 mm (20 in.)	43 kPa (6.24 psi)	46 kPa (6.67 psi)
Triple Semi-Grouser Shoes		
600 mm (24 in.)	37 kPa (5.37 psi)	39 kPa (5.66 psi)
700 mm (28 in.)	32 kPa (4.64 psi)	34 kPa (4.93 psi)
Swing Mechanism		
Speed	13.3 rpm	
Torque	34 000 Nm (25,000 lb.-ft.)	

Serviceability			
Refill Capacities		**Refill Capacities** *(continued)*	
Fuel Tank	220 L (58 gal.)	Gearbox	
Cooling System	21 L (22.2 qt.)	Swing	3 L (3.2 qt.)
Engine Oil With Filter	17 L (18 qt.)	Propel (each)	4 L (4.2 qt.)
Hydraulic Tank	60 L (15.9 gal.)	Diesel Exhaust Fluid (DEF) Tank	12 L (12.7 qt.)
Hydraulic System	125 L (33 gal.)		

Operating Weights		
With full fuel tank; 79-kg (175 lb.) operator; 914-mm (36 in.), 0.5-m^3 (0.65 cu. yd.), 414-kg (913 lb.) general-purpose bucket; 3.01-m (9 ft. 11 in.) arm; and 3650-kg (8,047 lb.) counterweight		
Operating Weights	*Without Blade*	*With Blade*
Rubber Crawler Pad, 500 mm (20 in.)	13 900 kg (30,644 lb.)	14 900 kg (32,849 lb.)
Triple Semi-Grouser Shoes		
600 mm (24 in.)	14 100 kg (31,085 lb.)	15 100 kg (33,290 lb.)
700 mm (28 in.)	14 300 kg (31,526 lb.)	15 400 kg (33,951 lb.)
Optional Components		
Undercarriage		
Rubber Crawler Pad, 500 mm (20 in.)	4210 kg (9,281 lb.)	5247 kg (11,568 lb.)
Triple Semi-Grouser Shoes		
600 mm (24 in.)	4436 kg (9,780 lb.)	5473 kg (12,066 lb.)
700 mm (28 in.)	4628 kg (10,203 lb.)	5701 kg (12,569 lb.)
1-Piece Boom (with arm cylinder)	995 kg (2,194 lb.)	995 kg (2,194 lb.)
3.01-m (9 ft. 11 in.) Arm With Bucket Cylinder and Linkage	663 kg (1,462 lb.)	663 kg (1,462 lb.)
Boom-Lift Cylinders (2), Total Weight	232 kg (511 lb.)	232 kg (511 lb.)

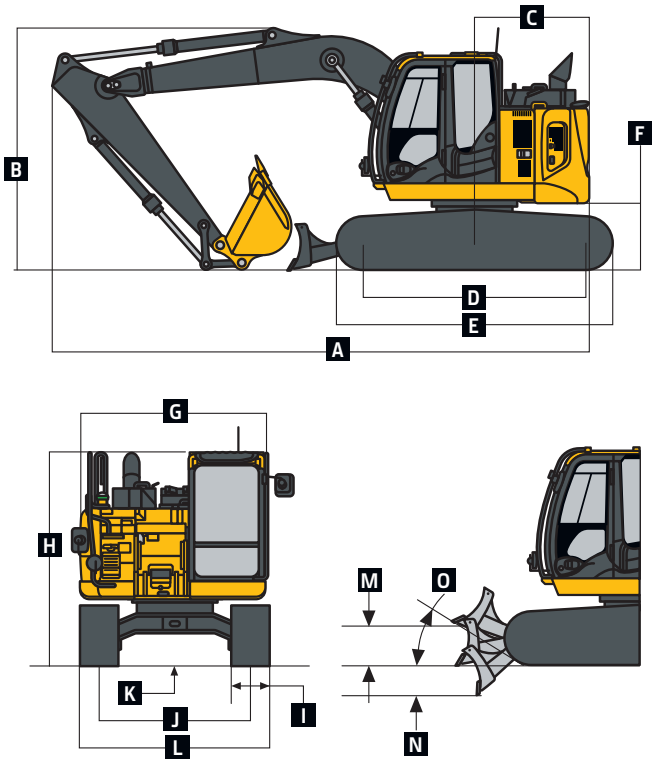
Operating Dimensions		
Arm Length	*3.01 m (9 ft.11 in.)*	
Arm Digging Force		
SAE	60 kN (13,490 lb.)	
ISO	61 kN (13,710 lb.)	
Bucket Digging Force		
SAE	91 kN (20,460 lb.)	
ISO	104 kN (23,380 lb.)	
A Maximum Reach	8.86 m (29 ft. 2 in.)	
A[1] Maximum Reach at Ground Level	8.72 m (28 ft. 4 in.)	
B Maximum Digging Depth	5.98 m (20 ft. 0 in.)	
B[1] Maximum Digging Depth at 2.44-m (8 ft. 0 in.) Flat Bottom	5.79 m (19 ft. 2 in.)	
C Maximum Cutting Height	9.69 m (31 ft. 8 in.)	
D Maximum Dumping Height	7.22 m (23 ft. 4 in.)	
E Minimum Swing Radius	2.45 m (8 ft. 4 in.)	
F Maximum Vertical Wall	5.19 m (16 ft. 8 in.)	



135 P-TIER

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.

	Machine Dimensions	135 P-TIER
	Arm Length	*3.01 m (9 ft. 11 in.)*
A	Overall Length	7.39 m (24 ft. 3 in.)
B	Overall Height	2.78 m (9 ft. 1 in.)
C	Rear-End Length/Swing Radius	1.49 m (4 ft. 11 in.)
D	Distance Between Idler/Sprocket Centerline	2.88 m (9 ft. 5 in.)
E	Undercarriage Length	3.58 m (11 ft. 9 in.)
F	Counterweight Clearance	840 mm (33 in.)
G	Upperstructure Width	2.48 m (8 ft. 2 in.)
H	Cab Height	2.87 m (9 ft. 5 in.)
I	Track Width	
	With Rubber Crawler Pad	500 mm (20 in.)
	With Triple-Semi Grouser Shoes	600 mm (24 in.) / 700 mm (28 in.)
J	Gauge Width	1.99 m (6 ft. 6 in.)
K	Ground Clearance	410 mm (16 in.)
L	Overall Width	
	Rubber Crawler Pad, 500 mm (20 in.)	2.49 m (8 ft. 2 in.)
	Triple Semi-Grouser Shoes	
	600 mm (24 in.)	2.59 m (8 ft. 6 in.)
	700 mm (28 in.)	2.69 m (8 ft. 10 in.)
M	Blade Lift Height	460 mm (18 in.)
N	Blade Cut Below Grade	540 mm (21 in.)
O	Blade Lift Angle	28.5 deg.
	Blade	
	Length	2.51 m (8 ft. 3 in.)
	Height	460 mm (18 in.)
	Width	
	Rubber Crawler Pad, 500 mm (20 in.)	2490 mm (8 ft. 2 in.)
	Triple Semi-Grouser Shoes	
	600 mm (24 in.)	2490 mm (8 ft. 2 in.)
	700 mm (28 in.)	2690 mm (8 ft. 10 in.)



Lift Capacities — 135 P-TIER

Boldface type indicates hydraulically limited capacity; lightface type indicates stability-limited capacities, in kg (lb.). All lift capacities are based on ISO 10567 (with power boost). Machine equipped with standard counterweight and situated on firm, level, uniform supporting surface. Total load includes weight of cables, hook, etc. Figures do not exceed 87 percent of hydraulic capacities or 75 percent of weight needed to tip machine.

	HORIZONTAL DISTANCE FROM CENTERLINE OF ROTATION									
	1.5 m (5 ft.)		3.0 m (10 ft.)		4.5 m (15 ft.)		6.0 m (20 ft.)		7.5 m (25 ft.)	
LOAD POINT HEIGHT	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
With 3.01-m (9 ft. 11 in.) arm and 500-mm (20 in.) rubber crawler pad, blade on ground, less bucket										
6.0 m (20 ft.)					**3120 (6,920)**	**3120 (6,920)**				
4.5 m (15 ft.)					**3410 (7,450)**	**3410 (7,450)**	**3320 (7,160)**	2450 (5,280)		
3.0 m (10 ft.)			**5240 (10,980)**	**5240 (10,980)**	**4240 (9,210)**	3700 (7,980)	**3650 (7,970)**	2360 (5,090)		
1.5 m (5 ft.)			**8340 (17,960)**	6240 (13,450)	**5280 (11,430)**	3420 (7,380)	**4090 (8,900)**	2240 (4,840)	**2510 (4,460)**	1590 (3,420)
Ground Line			**6610 (15,330)**	5780 (12,450)	**6000 (12,990)**	3200 (6,910)	**4420 (9,590)**	2140 (4,610)		
–1.5 m (–5 ft.)	**4120 (9,250)**	**4120 (9,250)**	**8600 (19,730)**	5680 (12,210)	**6090 (13,200)**	3100 (6,690)	**4400 (9,520)**	2080 (4,500)		
–3.0 m (–10 ft.)	**7170 (16,190)**	**7170 (16,190)**	**8030 (17,340)**	5740 (12,350)	**5430 (11,680)**	3110 (6,710)				
–4.5 m (–15 ft.)			**5290 (11,100)**	**5290 (11,100)**						
With 3.01-m (9 ft. 11 in.) arm and 600-mm (24 in.) triple semi-grouser shoes, blade on ground, less bucket										
6.0 m (20 ft.)					**3120 (6,920)**	**3120 (6,920)**				
4.5 m (15 ft.)					**3410 (7,450)**	**3410 (7,450)**	**3320 (7,160)**	2420 (5,200)		
3.0 m (10 ft.)			**5240 (10,980)**	**5240 (10,980)**	**4240 (9,210)**	3650 (7,870)	**3650 (7,970)**	2330 (5,020)		
1.5 m (5 ft.)			**8340 (17,960)**	6150 (13,260)	**5280 (11,430)**	3370 (7,270)	**4090 (8,900)**	2210 (4,770)	**2510 (4,460)**	1560 (3,360)
Ground Line			**6610 (15,330)**	5690 (12,260)	**6000 (12,990)**	3150 (6,800)	**4420 (9,590)**	2100 (4,540)		
–1.5 m (–5 ft.)	**4120 (9,250)**	**4120 (9,250)**	**8600 (19,730)**	5590 (12,020)	**6090 (13,200)**	3050 (6,580)	**4400 (9,520)**	2050 (4,430)		
–3.0 m (–10 ft.)	**7170 (16,190)**	**7170 (16,190)**	**8030 (17,340)**	5650 (12,160)	**5430 (11,680)**	3060 (6,610)				
–4.5 m (–15 ft.)			**5290 (11,100)**	**5290 (11,100)**						
With 3.01-m (9 ft. 11 in.) arm and 700-mm (28 in.) triple semi-grouser shoes, blade on ground, less bucket										
6.0 m (20 ft.)					**3120 (6,920)**	**3120 (6,920)**				
4.5 m (15 ft.)					**3410 (7,450)**	**3410 (7,450)**	**3320 (7,160)**	2450 (5,270)		
3.0 m (10 ft.)			**5240 (10,980)**	**5240 (10,980)**	**4240 (9,210)**	3690 (7,970)	**3650 (7,970)**	2360 (5,090)		
1.5 m (5 ft.)			**8340 (17,960)**	6230 (13,440)	**5280 (11,430)**	3420 (7,380)	**4090 (8,900)**	2240 (4,840)	**2510 (4,460)**	1590 (3,420)
Ground Line			**6610 (15,330)**	5780 (12,440)	**6000 (12,990)**	3200 (6,900)	**4420 (9,590)**	2140 (4,610)		
–1.5 m (–5 ft.)	**4120 (9,250)**	**4120 (9,250)**	**8600 (19,730)**	5670 (12,200)	**6090 (13,200)**	3100 (6,680)	**4400 (9,520)**	2080 (4,500)		
–3.0 m (–10 ft.)	**7170 (16,190)**	**7170 (16,190)**	**8030 (17,340)**	5740 (12,340)	**5430 (11,680)**	3110 (6,710)				
–4.5 m (–15 ft.)			**5290 (11,100)**	**5290 (11,100)**						

135 P-TIER

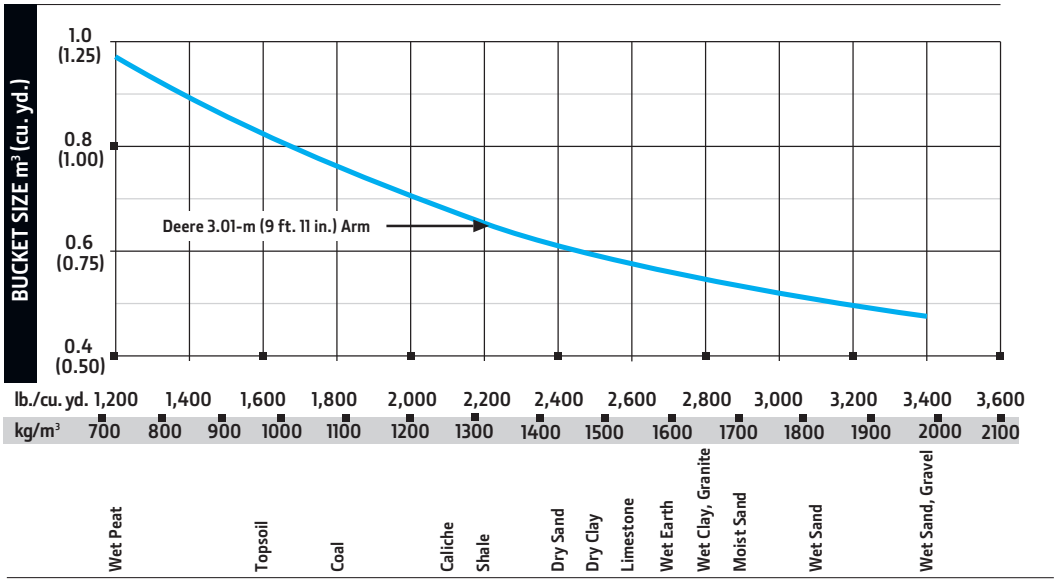
While general information, pictures, and descriptions are provided, some illustrations and text may include product options and accessories NOT AVAILABLE in all regions, and in some countries products and accessories may require modifications or additions to ensure compliance with the local regulations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

Buckets — 135 P-TIER

A full line of buckets is offered to meet a wide variety of applications. Digging forces are with power boost. Buckets are equipped with John Deere TK-Series Bucket Teeth standard. Replaceable cutting edges and a variety of teeth are available through John Deere Parts. Optional side cutters add 150 mm (6 in.) to bucket widths. Capacities are SAE heaped ratings.

Bucket Type	Bucket Width		Bucket Capacity		Bucket Weight	
	mm	in.	m^3	cu. yd.	kg	lb.
Heavy Duty	610	24	0.36	0.47	359	791
	762	30	0.49	0.64	397	875
	914	36	0.62	0.81	448	987
	1067	42	0.76	0.99	484	1,065

Bucket Selection Guide*



* Contact your John Deere dealer for optimum bucket and attachment selections. These recommendations are for general conditions and average use. Does not include optional equipment such as thumbs or couplers. Larger buckets may be possible when using light materials, for flat and level operations, less compacted materials, and volume loading applications such as mass-excavation applications in ideal conditions. Smaller buckets are recommended for adverse conditions such as off-level applications, rocks, and uneven surfaces. Bucket capacity indicated is SAE heaped.

Additional equipment

Key: ● Standard ▲ Optional or special
See your John Deere dealer for further information.

135 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)
●	Fuel filter with water separator
●	Full-flow oil filter
●	Turbocharger with charge-air cooler
●	500-hour engine-oil-change interval
●	70% (35 deg.) off-level capability
●	Programmable auto shutdown
▲	Severe-duty fuel filter
	Hydraulic System
●	Reduced-drift valve for boom down, arm in
●	Auxiliary hydraulic valve section
●	Spring-applied, hydraulically released automatic swing brake
●	Auxiliary hydraulic-flow adjustments through monitor
●	Auto power lift
●	5,000-hour hydraulic-oil-change interval
●	Auxiliary hydraulic lines with hand-controlled proportional control
▲	Load-lowering control device
▲	Single-pedal propel control
▲	Control pattern-change valve
	Undercarriage
●	Planetary drive with axial piston motors
●	Propel motor shields
●	Spring-applied, hydraulically released automatic propel brake
●	Track guides, front idler
●	2-speed propel with automatic shift
●	Upper carrier roller (1)
●	Sealed and lubricated track chain
▲	Rubber crawler pads, 500 mm (20 in.)
▲	Triple semi-grouser shoes, 600 mm (24 in.)
▲	Triple semi-grouser shoes, 700 mm (28 in.)
▲	Undercarriage with blade

135 P	Upperstructure
●	Right-hand, left-hand, and counterweight mirrors
●	Vandal locks with ignition key: Cab door / Service doors / Toolbox
●	Debris screening
●	Remote-mounted engine oil and fuel filters
	Front Attachments
●	Centralized lubrication system
●	Dirt seals on all bucket pins
●	Oil-impregnated bushings
●	Reinforced resin thrust plates
●	Tungsten carbide thermal coating on arm-to-bucket joint
●	Arm, 3.01 m (9 ft. 11 in.)
▲	Attachment quick-couplers
▲	Buckets: Ditching / Heavy duty / Heavy-duty high capacity / Side cutters and teeth
▲	Material clamps/Hydraulic thumb
	Operator's Station
●	Meets ISO 12117-2 for ROPS
●	Adjustable independent-control positions (levers-to-seat, seat-to-pedals)
●	AM/FM radio
●	Auto climate control/air conditioner/ heater/pressurizer
●	Built-in Operator's Manual storage compartment and manual
●	Cell-phone power outlet, 12 volt, 60 watt, 5 amp
●	Coat hook
●	Deluxe mechanical-suspension cloth seat with 100-mm (4 in.) adjustable armrests
●	Floor mat
●	Front windshield wiper with intermittent speeds
●	Gauges (illuminated): Diesel Exhaust Fluid (DEF) / Engine coolant / Fuel
●	Horn, electric
●	Hour meter, electric
●	Hydraulic shutoff lever, all controls
●	Hydraulic warm-up control
●	Interior light
●	Large cup holder
●	Machine Information Center (MIC)

135 P	Operator's Station *(continued)*
●	Mode selectors (illuminated): Power modes (3) / Travel modes (2 with automatic shift) / Work mode (1)
●	Multifunction, color LCD monitor with: Diagnostic capability / Multiple-language capabilities / Maintenance tracking / Clock / System monitoring with alarm features: Auto-idle indicator, engine air cleaner restriction indicator light, engine check, engine coolant temperature indicator light with audible alarm, engine oil pressure indicator light with audible alarm, low-alternator charge indicator light, low-fuel indicator light, low DEF indication with audible alarm, fault code alert indicator, fuel-rate display, wiper-mode indicator, work-lights-on indicator, and work-mode indicator
●	Motion alarm with cancel switch (conforms to SAE J994)
●	Power-boost switch on right console lever
●	SAE 2-lever control pattern
●	Seat belt, 76 mm (3 in.), non-retractable
●	Tinted glass
●	Transparent tinted overhead hatch
●	Hot/cold beverage compartment
▲	Hydraulic oil filter restriction indicator light
▲	Protection screens for cab front, rear, and side
▲	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)
▲	Right rear left 270-deg. camera system with additional LED surround lighting
●	Rearview camera
	Lights
●	Work lights: LED / 1 mounted on boom / 1 mounted on frame
▲	2 lights mounted on cab / 1 mounted on right side of boom

Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan, at test conditions specified per ISO 9249. No derating is required up to 3050-m (10,000 ft.) altitude. Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with SAE standards. Except where otherwise noted, these specifications are based on a unit with 914-mm (36 in.), 0.5-m^3 (0.65 cu. yd.), 414-kg (913 lb.) general-purpose bucket; 3.01-m (9 ft. 11 in.) arm; 3650-kg (8,047 lb.) counterweight; 700-mm (28 in.) triple-semi grouser shoes; full fuel tank; and 79-kg (175 lb.) operator.

PRODUCT SPECIFICATIONS FOR 308 CR

ENGINE

Net Power	69.5 HP
Engine Model	Cat C3.3B
Stroke	4.7 in
Bore	3.7 in
Gross Power - SAE J1995	74.3 HP
Displacement	203 in^3
Rated Net Power - 2,200 rpm - U.S. EPA Tier 4 Final/EU Stage V - ISO 9249/EEC 80/1269	69.5 HP

WEIGHTS

Operating Weight	20077 lb
Note (1)	*Minimum Weight is based on rubber tracks, no counterweight, operator, full fuel tank, standard stick, blade and no bucket.
Note (2)	**Maximum Weight is based on steel tracks with rubber pads, counterweight, operator, full fuel tank, long stick, blade and no bucket.
Maximum Operating Weight with Cab**	20077 lb
Minimum Operating Weight with Cab*	18610 lb

WEIGHT INCREASE FROM MINIMUM CONFIGURATION

Steel Tracks with Pads	752 lb
Counterweight	552 lb

Long Stick	146 lb

TRAVEL SYSTEM

Maximum Traction Force - High Speed	6250 lb
Ground Pressure - Maximum Weight	5.8 psi
Ground Pressure - Minimum Weight	5.4 psi
Travel Speed - High	3.2 mile/h
Travel Speed - Low	1.9 mile/h
Maximum Traction Force - Low Speed	15175 lb
Gradeability - Maximum	30 degrees

SERVICE REFILL CAPACITIES

Fuel Tank	39 gal (US)
Hydraulic System	29 gal (US)
Hydraulic Tank	14 gal (US)
Cooling System	2.6 gal (US)
Engine Oil	3 gal (US)

HYDRAULIC SYSTEM

Digging Force - Bucket	13946 lb
Operating Pressure - Travel	4134 psi
Operating Pressure - Swing	3626 psi
Operating Pressure - Equipment	4134 psi

Digging Force - Stick - Long	8032 lb
Type	Load Sensing Hydraulics with Variable Displacement Piston Pump
Note	Flow and pressure are not combinable. Under load, as flow rises pressure goes down.
Pump Flow at 2,400 rpm	44 gal/min
Digging Force - Stick - Standard	9509 lb
Maximum Auxiliary Circuit - Primary - Pressure at Pump	4134 psi
Maximum Auxiliary Circuit - Secondary - Pressure at Pump	4134 psi
Maximum Auxiliary Circuit - Primary - Flow at Pump	35 gal/min
Maximum Auxiliary Circuit - Secondary - Flow at Pump	9 gal/min

SWING SYSTEM

Machine Swing Speed	10.6 r/min
Boom Swing - Right	50 degrees
Boom Swing - Left	60 degrees

BLADE

Height	17 in
Width - Standard	90.6 in
Width - Wide	96.5 in

CERTIFICATION - CAB

Top Guard	ISO 10262:1998 (Level I)
Roll Over Protective Structure (ROPS)	ISO 12117-2:2008
Tip Over Protective Structure (TOPS)	ISO 12117:1997

SOUND

Operator Sound Pressure (ISO 6396:2008)	72 dB(A)
Note	European Union Directive "2000/14/EC"
Average Exterior Sound Pressure (ISO 6395:2008)	99 dB(A)

DIMENSIONS - STANDARD STICK

Cab Height	100 in
Vertical Wall	117.8 in
Boom In Reach	120.4 in
Tail Swing with Counterweight	62.4 in
Boom Swing - Right	36.8 in
Track Belt/Shoe Width	17.7 in
Maximum Reach	281.1 in
Stick Length	71.7 in
Maximum Blade Height	14.6 in
Boom Swing - Left	23.8 in
Maximum Blade Depth	16 in
O/A Track Width	90.6 in

Maximum Dig Height	265.2 in
Maximum Dump Clearance	187.4 in
Maximum Reach - Ground Level	273.6 in
Tail Swing without Counterweight	57.1 in
O/A Undercarriage Length	113.4 in
Swing Bearing - Height	29.7 in
Ground Clearance	13.8 in
Dig Depth	161.7 in
Note	*Boom Height when stick is pinned in transport position with no attachments.
Overall Shipping Length - with Counterweight	264 in
Note (1)	**Boom Height when stick is pinned in working position with attachments. Standard Stick offers only one pin position.
Overall Shipping Length - without Counterweight	258.8 in
Note (2)	***With blade positioned at the rear of the machine.
Height - Boom Working - With Tools**	104.7 in
Height - Boom Transport - No Tools*	95.7 in

DIMENSIONS - LONG STICK

Dig Depth	182.8 in

Boom Swing - Left	23.8 in
Maximum Dig Height	277.1 in
Maximum Blade Height	14.6 in
Track Belt/Shoe Width	17.7 in
Cab Height	100 in
Tail Swing with Counterweight	62.4 in
O/A Undercarriage Length	113.4 in
Maximum Dump Clearance	199.7 in
Boom Swing - Right	36.8 in
Maximum Blade Depth	16 in
Ground Clearance	13.8 in
Stick Length	92.8 in
Maximum Reach	300.7 in
Maximum Reach - Ground Level	293.7 in
Boom In Reach	126.6 in
Swing Bearing - Height	29.7 in
O/A Track Width	90.6 in
Tail Swing without Counterweight	57.1 in
Vertical Wall	134 in

Note	*Boom Height when stick is pinned in transport position with no attachments.
Note (2)	***With blade positioned at the rear of the machine.
Note (1)	**Boom Height when stick is pinned in working position with attachments. Standard Stick offers only one pin position.
Height - Boom Transport - No Tools*	89 in
Height - Boom Working - With Tools**	120.1 in
Overall Shipping Length - without Counterweight	6872 mm (270.6 in)***
Overall Shipping Length - with Counterweight	6872 mm (270.6 in)***

AIR CONDITIONING SYSTEM

Air Conditioning	The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1 kg of refrigerant which has a CO2 equivalent of 1.430 metric tonnes.

SUSTAINABILITY

Recyclability	96%

308 CR STANDARD EQUIPMENT

ENGINE

Cat C3.3B Diesel Engine (U.S. EPA Tier 4 Final/EU Stage V) – Electronic Engine, Turbo, Diesel Particulate Filter (DPF)
Automatic Engine Idle
Automatic Engine Shutdown
Automatic Swing Brake
Automatic Two Speed Travel
Fuel Water Separator with Indicator
Radial Seal – Double Element Air Filter
Extended Life Coolant, –37° C (–35° F)

PRODUCT SPECIFICATIONS FOR 310

ENGINE

Engine Model	Cat C3.3B
Net Power	71.5 HP
Displacement	203 in³
Bore	3.7 in
Rated Net Power - 2,200 rpm - China Nonroad Stage III, Equivalent to EU Stage IIIA - ISO 9249/EEC 80/1269	71.5 HP
Gross Power - SAE J1995	74.3 HP
Stroke	4.7 in

WEIGHTS

Operating Weight	22447 lb
Minimum Operating Weight with Cab*	21166 lb
Maximum Operating Weight with Cab**	22447 lb
Note (1)	*Minimum Weight is based on steel tracks, no counterweight, operator, full fuel tank, long stick, blade and no bucket.
Note (2)	**Maximum Weight is based on steel tracks with rubber pads, counterweight, operator, full fuel tank, long stick, blade and no bucket.

BLADE

Height	17 in
Width - Standard	97 in

Width - Wide	104 in

SOUND

Average Exterior Sound Pressure (ISO 6395:2008)	99 dB(A)
Operator Sound Pressure (ISO 6396:2008)	72 dB(A)

DIMENSIONS

Track Belt/Shoe Width	18 in
Dig Depth	205 in
Vertical Wall	192 in
Maximum Dig Height	314 in
Ground Clearance	14 ft
Tail Swing without Counterweight	71 in
Maximum Blade Depth	26 in
Maximum Dump Clearance	230 in
Maximum Reach - Ground Level	296 in
Cab Height	103 in
Boom in Reach	90 in
Transport Height	114 in
Stick Length	98 in
Overall Track Width	97 in
Overall Shipping Length	259 in

Maximum Reach	301 in
Swing Bearing Height	32 in
Overall Undercarriage Length	126 in
Maximum Blade Height	14 in
Tail Swing with Counterweight	79 in

HYDRAULIC SYSTEM

Operating Pressure - Equipment	4134 psi
Pump Flow at 2,400 rpm	62 gal/min
Operating Pressure - Swing	3336 psi
Operating Pressure - Travel	4134 psi
Digging Force - Bucket	17459 lb
Digging Force - Stick	11060 lb
Auxiliary Circuit - Primary - Pressure	4134 psi
Auxiliary Circuit - Primary - Flow	35 gal/min
Auxiliary Circuit - Secondary - Flow	9 gal/min
Type	Load Sensing Hydraulics with Variable Displacement Piston Pump
Auxiliary Circuit - Secondary - Pressure	4134 psi

SERVICE REFILL CAPACITIES

Hydraulic System	37 gal (US)

Hydraulic Tank	14 gal (US)
Cooling System	2.6 gal (US)
Engine Oil	3 gal (US)
Fuel Tank	38 gal (US)

WEIGHT INCREASE FROM MINIMUM CONFIGURATION

Blade	794 lb
Steel Tracks with Pads	728 lb
Counterweight	552 lb

TRAVEL SYSTEM

Ground Pressure - Minimum Weight	6 psi
Maximum Traction Force - High Speed	6497 lb
Travel Speed - Low	1.6 mile/h
Travel Speed - High	3.1 mile/h
Maximum Traction Force - Low Speed	19064 lb
Ground Pressure - Maximum Weight	6 psi
Gradeability - Maximum	30 degrees

CERTIFICATION - CAB

Roll Over Protective Structure (ROPS)	ISO 12117-2:2008
Top Guard	ISO 10262:1998 (Level II)
Tip Over Protective Structure (TOPS)	ISO 12117:1997