

G-SERIES  
**COMPACT EXCAVATORS**



JOHN DEERE

**50G**

**JESCO**  
THE DOWN-TO-EARTH EQUIPMENT PEOPLE™



**COMPACT  
OPERATORS**



# 50G 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.

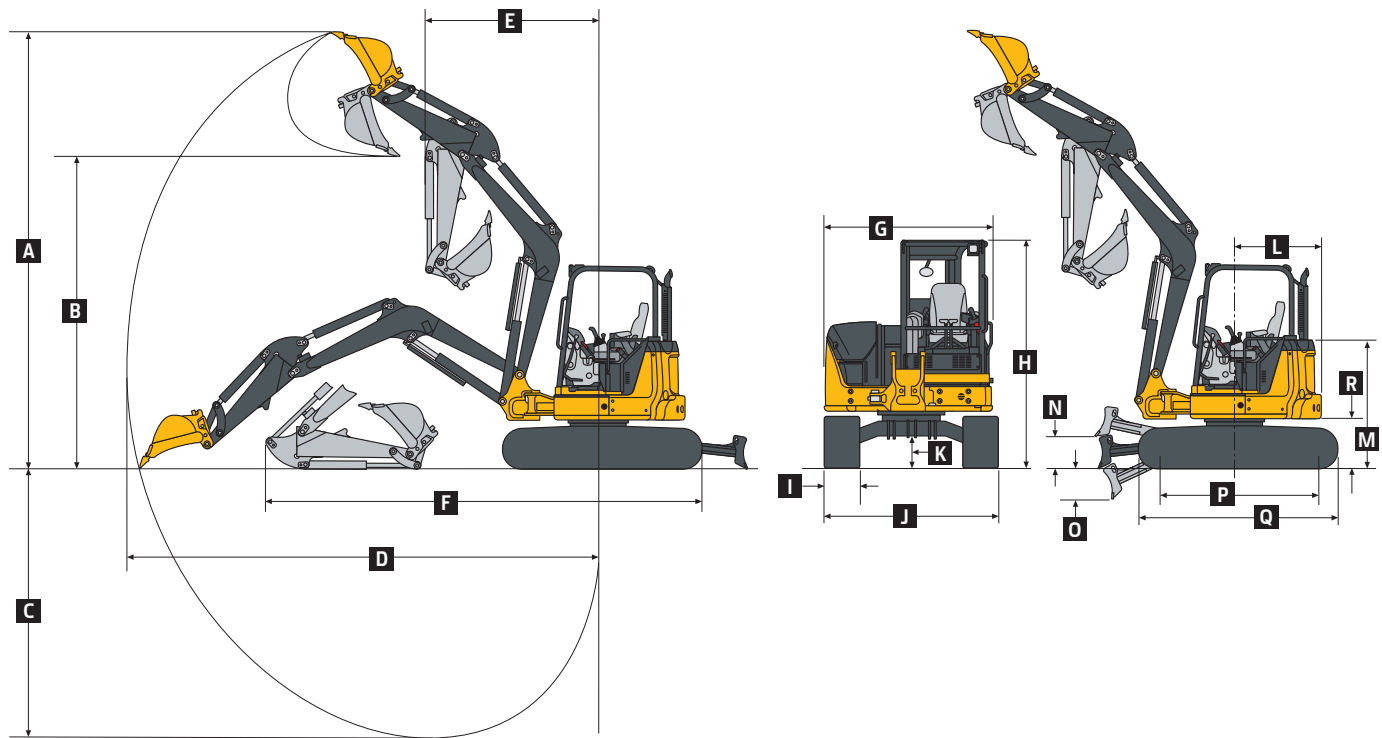
Engine	50G			
Manufacturer and Model	Yanmar 4TNV88C			
Non-Road Emission Standard	EPA Final Tier 4/EU Stage IV			
Displacement	2.19 L (134 cu. in.)			
Net Power (ISO 9249)	26.8 kW (35.9 hp) at 2,400 rpm			
Powertrain				
Each track independently driven by hydrostatic axial-piston motor connected to 2-stage 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)			
Auxiliary Flow	87.4 L/m (23.1 gpm)			
Controls	Hydraulic pilot-operated controls for boom, arm, bucket, swing, boom swing, blade, travel, and auxiliary functions			
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, Canopy, and Standard Counterweight	1380-mm (4 ft. 6 in.) Standard Arm, Cab, and Standard Counterweight	1690-mm (5 ft. 7 in.) Long Arm, Canopy, and Extra Counterweight	1690-mm (5 ft. 7 in.) Long Arm, Cab, and Extra Counterweight
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				
Fuel Tank	70 L (18.5 gal.)			
Cooling System	5.0 L (5.3 qt.)			
Engine Oil With Filter	8.6 L (9.1 qt.)			
Hydraulic Tank	56 L (14.8 gal.)			
Operating Weights				
	1380-mm (4 ft. 6 in.) Standard Arm, Canopy, and Standard Counterweight	1380-mm (4 ft. 6 in.) Standard Arm, Cab, and Standard Counterweight	1690-mm (5 ft. 7 in.) Long Arm, Canopy, and Extra Counterweight	1690-mm (5 ft. 7 in.) Long Arm, Cab, and Extra Counterweight
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.)

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Operating Dimensions		50G			
		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
<b>A</b>	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>B</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.)
<b>C</b>	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.)
<b>D</b>	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.)
<b>E</b>	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.)
<b>F</b>	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.)



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



# Additional equipment

Key: ● Standard ▲ Optional or special

See your John Deere dealer for further information.

35G	50G	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
<b>Hydraulic System</b>			
●	●	●	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
●			Open center with 2 variable-displacement pumps and 1 fixed-gear pump
	●	●	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
<b>Undercarriage</b>			
●	●	●	Planetary final drive
●	●	●	Propel motor shield
●	●	●	2-speed axial-piston propel motors
●			Rubber track, 300 mm (12 in.)
	●	●	Rubber track, 400 mm (16 in.)

35G	50G	60G	Undercarriage (continued)
▲			Steel track, 300 mm (12 in.) with triple semi-grousers
	▲	▲	Steel track, 400 mm (16 in.) with triple semi-grousers
▲			Rubber crawler pad, 300 mm (12 in.)
	▲	▲	Rubber crawler pad, 400 mm (16 in.)
<b>Upperstructure</b>			
●	●	●	360-deg. rotation
●			Counterweight, 540 kg (1,190 lb.)
	●		Counterweight, 700 kg (1,543 lb.)
		●	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
●	●		Zero-tail-swing configuration
		●	Reduced-tail-swing configuration
<b>Front Attachments</b>			
●			Arm, 1315 mm (4 ft. 4 in.)
	●		Arm, 1380 mm (4 ft. 6 in.)
		●	Arm, 1500 mm (4 ft. 11 in.)
▲			Long arm, 1715 mm (5 ft. 8 in.), includes additional 240-kg (529 lb.) counterweight
	▲		Long arm, 1690 mm (5 ft. 7 in.), includes additional 200-kg (441 lb.) counterweight
		▲	Long arm, 1850 mm (6 ft. 1 in.), includes additional 270-kg (595 lb.) counterweight
●	●	●	Articulation hose shield
●			Backfill blade, 1.74 m (5 ft. 9 in.)
	●	●	Backfill blade, 2.00 m (6 ft. 7 in.)
▲	▲	▲	Hydraulic angle backfill blade
●			Boom, 2.465 m (8 ft. 1 in.)
	●		Boom, 2.85 m (9 ft. 4.2 in.)
		●	Boom, 2.965 m (9 ft. 9 in.)
●	●	●	Mechanical quick-coupler

35G	50G	60G	Front Attachments (continued)
▲	▲	▲	Augers: Planetary / Chain drive / Bits / Bit adapters
▲	▲	▲	Clamp
▲	▲	▲	Hammers: Points / Tools
▲	▲	▲	Quick-coupler buckets: Bucket teeth / Ditching / Heavy-duty
<b>Operator's Station</b>			
●	●	●	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
<b>Electrical</b>			
●	●	●	12-volt accessory outlet
●	●	●	Alternator, 55 amp
●	●	●	Low-maintenance battery
●	●	●	Blade-type multi-fused circuits
●	●	●	Positive-terminal battery covers
<b>Lights</b>			
●	●	●	Work lights: Halogen / 1 mounted on operator's station / 1 mounted on boom

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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 units with standard arms, full fuel tanks, and 79-kg (175 lb.) operators; a 35G canopy unit with 610-mm (24 in.), 0.11-m<sup>3</sup> (4.0 cu. ft.) bucket, 300-mm (12 in.) rubber track, and 540-kg (1,190 lb.) counterweight; a 50G canopy unit with 610-mm (24 in.), 0.16-m<sup>3</sup> (5.7 cu. ft.) bucket, 400-mm (16 in.) rubber track, and 700-kg (1,543 lb.) counterweight; and a 60G cab unit with 0.19-m<sup>3</sup> (6.8 cu. ft.) bucket, 400-mm (16 in.) rubber track, and 745-kg (1,642 lb.) counterweight.

