













Start from zero

Zero-tail-swing design maximizes maneuverability and performance in tight places such as urban and residential areas. Compact stature permits easy transport between jobsites, perfect for "dig-and-go" projects.

Resource management

Auto-idle automatically reduces engine speed when hydraulics aren't in use. Auto shutdown conserves precious fuel. Power/ economy modes optimize power for digging applications, further improving fuel efficiency.

Get back to it

Standard backfill blade enables the 50 P-Tier to grade and fill, boosting machine versatility and stability when using attachments or working on uneven terrain.

Comfort, quiet, and control

Spacious operator station has a wide entryway and backhoe- to excavator-style controls. Swing boom and foldable travel pedals are positioned for efficient operation and comfortable foot room. Noise-reducing aftertreatment device and isochronous high-idle speed help keep things noticeably quiet. Rubber cab mounts isolate the operator from noise and vibration.

Swing for the fences

Put the 50 P-Tier's independent-swing boom and 360-degree rotation to work taming difficult tasks. Impressive lift height and reach ease truck loading.

Handy hydraulics

Standard quick-coupler-equipped, boom-mounted auxiliary hydraulic lines simplify attachment hookup. Return-flow selector valve accommodates hydraulic-driven attachments that operate either one or two ways. Wedge-style coupler enables swift changes of a wide range of buckets and attachments, such as hydraulic hammers, plate compactors, and augers.

Safe travels

No operator activation is required for high-speed travel. Track speeds automatically slow to low whenever a heavier load is encountered, then return to high when the load normalizes.

Designed for durability

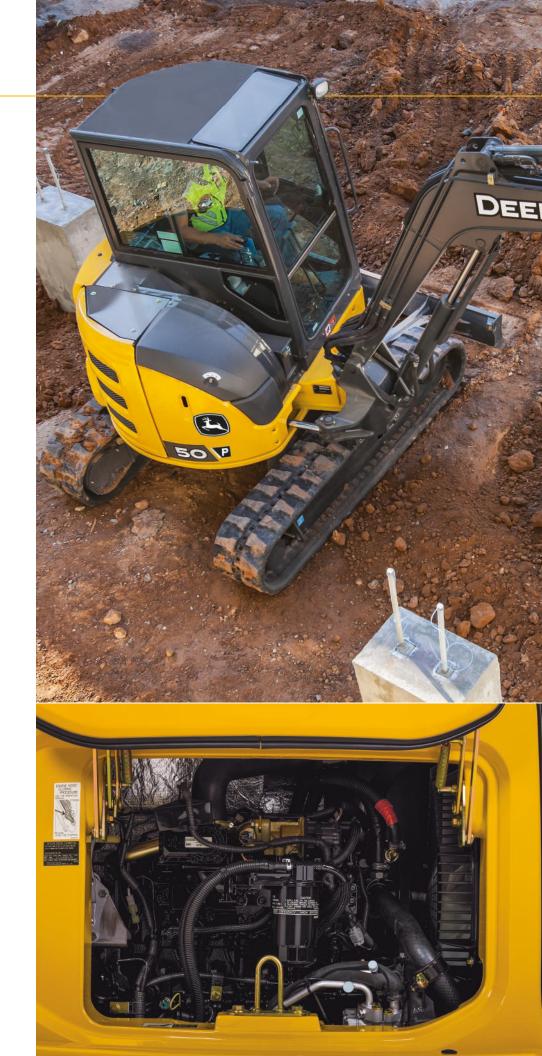
Heavy-duty side shields deflect material and impacts, protecting boom/blade cylinders and drive motors. Single-pin swing-post increases boom rigidity. Reinforced D-channel side frames and heavy-duty X-frame help extend wear life.

Maintenance made easy

Hinged door provides wide-open access to the side-by-side oil cooler and radiator. Operator station tilts forward 50 degrees to reach the swing motor, hydraulic control valve, engine starter motor, and alternator. Extended service intervals allow the machine to work longer before maintenance is needed.

Make the most of your investment

Already own some John Deere attachments? Many models including buckets, hydraulic hammers, and augers also work on other compact machines so you can redefine fleet utilization — and your bottom line.







MATCH YOUR TRACK TO THE APPLICATION

The choice is yours

Rubber tracks traverse virtually any terrain, including paved surfaces. Optional rubber grousers combine work-anywhere flexibility with steel-track serviceability. Steel tracks and steel tracks with rubber pads are also available.

Connected machines

John Deere construction equipment comes with in-base connectivity — free from subscriptions or annual renewals. Analyze critical machine data, track utilization, review diagnostic alerts, and more from **the John Deere Operations Center™**. The Operations Center also enables **John Deere Connected Support™**, which uses data from thousands of connected machines to proactively address issues before they arise. Your dealer can also remotely monitor machine health, diagnose problems, and even update machine software without a trip to the jobsite.*

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

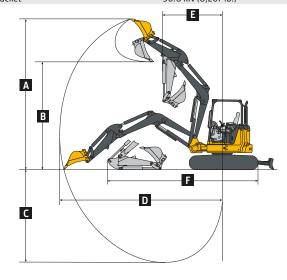
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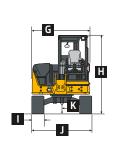
50 P-TIER COMPACT EXCAVATOR SPECIFICATIONS

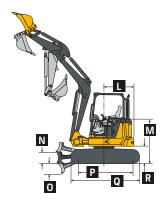


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En	gine	50 P-TIER							
	nufacturer and Model	Yanmar 4TNV88C		Displacement		2.19 L (134 cu. in.)			
	n-Road Emission Standard	EPA Final Tier 4/EU Stage IV		Net Power (ISO 9249	a)	26.8 kW (35.9 hp) at 2,400 rpm			
	wertrain	Elittima fici 4/20 Stage IV	Net Fower (130 324)		· 1	20.0 KW ()	3.5 Hp, dt 2,400 lpill		
	ch track independently driven by hydrostatic	avial-niston motor connected to	n 2-stage n	lanetary gear-reduction	on hov				
	eximum Travel Speed	Low: 2.5 km/h (1.6 mph) / High:			JII DOX				
	draulics	Low. 2.3 kiii/ii (i.o iiipii) / Higii.	. 4.2 KIII/II	(2.6 IIIpii)					
	osed-center load sensing with 1 variable-disp	la a a ma a ma musuma m		Controls		I ludanulia a	ilat anaustad santuals fau		
				Controls			Hydraulic pilot-operated controls for		
	mp Flow	120.0 L/m (31.7 gpm)				boom, arm, bucket, swing, boom swing, blade, travel, and auxiliary functions			
	xiliary Flow	87.4 L/m (23.1 gpm)				blade, trave	el, and auxiliary functions		
	ectrical								
	ernator Rating	55 amp							
	ork Lights	2 halogen: 1 mounted on operator's station and 1 mounted on boom							
	dercarriage								
	ck, Rubber	400 mm (16 in.)							
Ground Pressure		1380-mm (4 ft. 6 in.) Standard A			Long Arm and Extra Counterweight				
		With Canopy With Cal			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)		
Up	perstructure	· .							
	ing Speed	9.0 rpm							
	lependent Swing Boom	· ·							
	Left	80 deg.							
Right 60 deg.									
	ing Brake								
	rviceability	Spring applica, hydradically rel	cuscu, uut	omatic, disc type					
	fill Capacities			Refill Capacities (cor	ntinuad)				
	Fuel Tank	70 L (18.5 gal.)		Engine Oil With Fi		8.6 L (9.1 gt.)			
					iiter	56 L (14.8 gal.)			
Cooling System		5.0 L (5.3 qt.)	Hydraulic Tank	56 L (14.8 gal.)					
Up	erating Weights	1200 // 5: 5: 15: 1 14	16.	1 15	1600 (5.5, 7, 1		15 . 6		
		1380-mm (4 ft. 6 in.) Standard Ar							
		With Canopy	With Cab		With Canopy		With Cab		
	th 400-mm (16 in.) Rubber Track, Straight	4790 kg (10,560 lb.)	4920 kg (10,847 lb.)	5018 kg (11,063 lb.)		5148 kg (11,349 lb.)		
	de, Full Fuel Tank, and 79-kg (175 lb.) Operator								
	tional Angle Blade	409 kg (902 lb.)	409 kg (9	102 lb.)	409 kg (902 lb.)		409 kg (902 lb.)		
	unterweight								
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.)			
Ор	erating Dimensions								
		1380-mm (4 ft. 6 in.)	1380-mm	(4 ft. 6 in.)	1690-mm (5 ft. 7 in.)		1690-mm (5 ft. 7 in.)		
		Standard Arm and Canopy	Standard	Arm and Cab	Long Arm and Canop	y	Long Arm and Cab		
4	Maximum Cutting Height	5.75 m (18 ft. 10 in.)	5.75 m (18	3 ft. 10 in.)	6.00 m (19 ft. 8 in.)		6.00 m (19 ft. 8 in.)		
3	Maximum Dumping Height	4.07 m (13 ft. 4 in.)	4.07 m (13	3 ft. 4 in.)	4.31 m (14 ft. 2 in.)		4.31 m (14 ft. 2 in.)		
С	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.)		
	Maximum Digging Reach	5.96 m (19 ft. 7 in.)	5.96 m (1	9 ft. 7 in.)	6.26 m (20 ft. 6 in.)	, , , ,			
	Minimum Front Swing Radius	2.21 m (7 ft. 3 in.)	2.21 m (7		2.30 m (7 ft. 7 in.)		2.30 m (7 ft. 7 in.)		
	Transport Length	5.47 m (17 ft. 11 in.)	5.47 m (17		5.52 m (18 ft. 1 in.)		5.52 m (18 ft. 1 in.)		
	Digging Force (ISO)		2. 17 111 (17		3.32 III (10 Tt. TIII.)		3.32 (10 10. 1111.)		
	Arm	24.0 kN (5,401 lb.)	24.0 kN (5 401 lb 1	21.0 kN (4,718 lb.)		21.0 kN (4,718 lb.)		
			36.8 kN (36.8 kN (8,267 lb.)				
	Bucket	36.8 kN (8,267 lb.)	36 8 1/11	9 16 / Ib I			36.8 kN (8,267 lb.)		











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Machine Dimensions (see line art at bottom right of page 6)	50 P-TIER			
G Upperstructure Width	1.85 m (6 ft. 1 in.)	M	Engine Cover Height	1.59 m (5 ft. 3 in.)
H Overall Height		N	Maximum Blade Lift Above Ground	460 mm (18 in.)
Canopy	2.53 m (8 ft. 4 in.)	0	Maximum Blade Drop Below Ground	360 mm (14 in.)
Cab	2.53 m (8 ft. 4 in.)		Blade	
I Track Width	400 mm (16 in.)		Width	2.00 m (6 ft. 7 in.)
J Undercarriage Width	2.00 m (6 ft. 7 in.)		Height	375 mm (15 in.)
K Ground Clearance	340 mm (13 in.)	Р	Sprocket Center to Idler Center	2.00 m (6 ft. 7 in.)
L Tail Swing Radius		Q	Track Length	2.50 m (8 ft. 2 in.)
With Standard Arm	1.00 m (39 in.)	R	Counterweight Clearance	610 mm (24 in.)
With Long Arm and Extra Counterweight	1.10 m (43 in.)			

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		Cab and Stand	ard .	-			
	Counterweight		Counterweight		Canopy and Extra Counterweight Cab and Extra Counterweigh			
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	1110 kg	2511 kg	1150 kg	2511 kg	1232 kg	2511 kg	1273 kg
	(5,531 lb.)	(2,444 lb.)	(5,531 lb.)	(2,534 lb.)	(5,531 lb.)	(2,714 lb.)	(5,531 lb.)	(2,803 lb.)
1690-mm (5 ft. 7 in.) Long Arm	2477 kg	1088 kg	2477 kg	1129 kg	2477 kg	1210 kg	2477 kg	1251 kg
	(5,456 lb.)	(2,396 lb.)	(5,456 lb.)	(2,486 lb.)	(5,456 lb.)	(2,666 lb.)	(5,456 lb.)	(2,755 lb.)
*Blade down (limited by hydraulics).								

Additional equipment

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

- 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

- 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-displace-
- Hydraulic pilot-operated controls for boom, arm, bucket, swing, boom swing, blade, travel, and auxiliary functions
- Wet-disc swing brake

- Planetary final drive
- Propel motor shield
- 2-speed axial-piston propel motors
- Rubber track, 400 mm (16 in.)

Undercarriage (continued)

- 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
- Vandal protection for service doors, fuel cap, and
- 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

- Horn

Operator's Station (continued)

- 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
- JDLink™ connectivity hardware and John Deere Operations Center[™] account
- Work lights: Halogen / 1 mounted on operator's station / 1 mounted on boom



