

Cat® CP74B

Padfoot Drum Vibratory
Soil Compactor

The Cat® CP74B features a padfoot drum and is ideally suited for cohesive and semi-cohesive soil applications.

Comfortable and Ergonomic Operator Station

- Features pivoting seat with integrated multifunction LCD display and control console.
- Outstanding visibility to the front and rear of machine.
- Low sound levels and vibration for greater operator comfort and productivity.

Rear Vision Camera

 The rear vision camera enhances visibility for more complete operator control and safety.

Exceptional Propel System

- Built around the exclusive Cat[®] dual pump propel system, two pum ps provide separate dedicated flow to drum drive motor and rear axle motor for exceptional gradeability and traction in forward and reverse.
- Electronic propel control provides more precise machine control.

Virtually Maintenance Free

- · Maintenance-free hitch bearings.
- Extended maintenance intervals for vibratory system and hydraulic system, providing more uptime and lower maintenance costs.

Enhanced Compaction Performance

- More weight at the drum and greater amplitutude.
- Automated speed control and vibratory system functions make it easy to ensure consistent, high quality compaction.

Technologies that Enhance Quality and Productivity

- Exclusive semi-autonomous Command for Compaction technology automates compaction to offer complete process control and help promote more uniform results.
- Measurement and documentation technologies help the operator determine when compaction has been completed to specification for greater productivity and uniform compaction quality.
- Exclusive Machine Drive Power (MDP) measurement technology available.



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Technical Specifications

Engine - Power Train			
Engine Model	Cat® C4.4		
European Emissions	EU Stage V		
Gross Power ISO 14396	129.4 kW	173.5 hp	
Gross Power SAE J1995	130.4 kW	174.9 hp	
Net Power ISO 9249*	108.7 kW	145.8 hp	
Net Power SAE J1349*	108.2 kW	145.1 hp	
Displacement	4.4 L	268.5 in ³	
Stroke	127 mm	5 in	
Bore	105 mm	4.1 in	
Max. Travel Speed (Forward or Reverse)	11.4 km/h	7 mph	
Theoretical Gradeability, no vibration**	59'	%	

Vibratory System Specifications			
Frequency			
Standard	28 Hz	1680 vpm	
During Eco-mode Operation	25.5 Hz	1527 vpm	
Optional Variable Frequency	23.3-28 Hz	1400-1680 vpm	
Nominal Amplitude @ 30.5 Hz (1830 v	rpm)		
High	2.1 mm	0.083 in	
Low	0.98 mm	0.039 in	
Centrifugal Force @ 30.5 Hz (1830 vp	m)		
Maximum	335 kN	75,234 lb	
Minimum	166 kN	37,300 lb	
VM Class at High Amplitude	,	VM5	

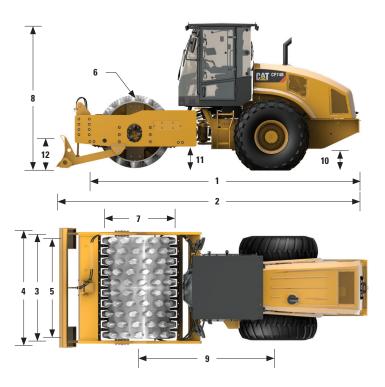
Weights			
Operating Weight w/ ROPS/FOPS cab***	16 355 kg	36,048 lb	
w/ Leveling Blade	17 015 kg	37,503 lb	
Weight at Drum w/ ROPS/FOPS cab	10 725 kg	23,633lb	
w/ Leveling Blade	11 695 kg	25,771 lb	

Service Refill Capacities			
Fuel Tank, total capacity	332 L	88 gal	
Diesel Exhaust Fuel refill capacity	19 L	5 gal	
Cooling System	28.2 L	7.5 gal	
Engine Oil w/ Filter	11.6 L	3.1 gal	
Eccentric Weight Housings (combined)	26 L	6.9 gal	
Axle and Final Drives	18 L	4.8 gal	
Hydraulic Tank (service refill)	50 L	13.2 gal	

- * Net power advertised is the power available at the engine flywheel when equipped with a fan at maximum speed, air cleaner, clean emissions module, and alternator.
- ** Actual gradeability may vary based on site conditions and machine configuration. Refer to the Operation and Maintenance Manual for more information.
- *** Standard operating weight considers full fuel tank, 75 kg operator, traction tires, oval pad drum, and cab with A/C.

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.8 kg of refrigerant which has a $\rm CO_2$ equivalent 1.144 metric tonne.

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0.083 in) moving to low amplitude when

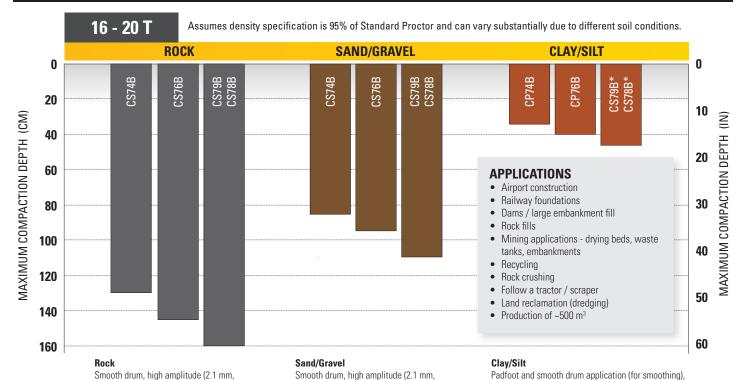
approaching compaction, 4-8 passes

Size: Less than 50 mm (2 in) diameter

	Dimensions		
1	Overall Length	6.05 m	19.9 ft
2	Overall Length w/ optional Leveling Blade	6.55 m	21.5 ft
3	Overall Width	2.33 m	7.64 ft
4	Overall Width w/ optional Leveling Blade	2.50 m	8.25 ft
5	Drum Width	2134 mm	84 in
6	Drum Shell Thickness	40 mm	1.6 in
7	Drum Diameter	1550 mm	61.0 in
8	Overall Height	3.11 m	10.2 ft
9	Wheelbase	2.9 m	9.5 ft
10	Ground Clearance	445 mm	17.5 in
11	Curb Clearance	497 mm	19.6 in
12	Optional Leveling Blade Height	688 mm	27.1 in
	Inside Turning Radius	3.68 m	12.07 ft
	Hitch Articulation Angle	34°	
	Hitch Oscillation Angle	15°	
Padfoot Specifications			
Number of Pads		14	10
Pad I	leight	127 mm	5 in
Pad F	ace Area	74.4 cm ²	13.9 in²

Vibratory Soil Compactor Selection Guide

Number of Chevrons



0.083 in) moving to low amplitude when

approaching compaction, 4-6 passes

depends on moisture content.

4-10 passes. Compaction in cohesive soils strongly

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Standard and Optional Equipment

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional
OPERATOR ENVIRONMENT		
ROPS/FOPS Cab with Climate Control, External Rear View Mirrors	√	
Cloth Adjustable Pivoting Seat with Integrated Console and LCD Display	√	
Adjustable Tilting Steering Column with Integrated Cup Holders	✓	
Rear Vision Camera with Color Touchscreen Display	✓	
Seat Belt – 50 mm (2 in) high visibility orange	✓	
12-volt Power Outlet	✓	
Horn, Backup Alarm	✓	
Sun Visor		✓
Cab Internal Roll-down Sun Screen		✓
Seat Belt – 75 mm (3 in) high visibility orange		✓
VIBRATORY SYSTEM		
Padfoot Drum	\checkmark	
Dual Amplitude, Single Frequency	✓	
Dual Pod-Style Eccentric Weight Housings	✓	
Auto-vibe Function	✓	
Dual Adjustable Steel Scrapers	✓	
Leveling Blade		✓
Variable Frequency		✓
TECHNOLOGY SOLUTIONS		
Measure - Machine Drive Power		✓
Map - SBAS GNSS Mapping		✓
Connect - Cloud and Machine Connectivity		✓

	Standard	Optional
POWER TRAIN		
Cat C4.4 Diesel Engine	✓	
Air Cleaner, Dual Element	✓	
Three-Speed Throttle Switch, Eco-mode and Automatic Speed Control	✓	
Dual Propel Pumps; One for Drum Drive, One for Rear Axle	√	
Fuel Filter, Water Separator, Priming Pump, Water Indicator	✓	
Tilting Radiator/Hydraulic Oil Cooler	✓	
Dual Braking System	✓	
Two-speed Hydrostatic Transmission	✓	
Transmission Guard		✓
ELECTRICAL		
24 volt Electrical System	✓	
100 ampere Alternator	✓	
750 Cold-cranking Amps Battery Capacity	✓	
OTHER		
Product Link™	✓	
Sight Gauges for Hydraulic Oil Level and Radiator Coolant Level	√	
S-O-S SM Sampling Valves: Engine Oil, Hydraulic Oil and Coolant	√	
Machine tie downs - front and rear (meet ISO 15818)	✓	
Recording Module		✓
Factory Filled Bio Hydraulic Oil		✓
Fast Fill Fuel Tank		✓
Upgraded Halogen Light Package		✓
Upgraded LED light package		✓
Amber Rotating Beacon		✓
Fuel Fill Access Door		✓

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Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

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