



# Cat<sup>®</sup> CP74B

## Padfoot Drum Vibratory Soil Compactor

The Cat<sup>®</sup> 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 pumps 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

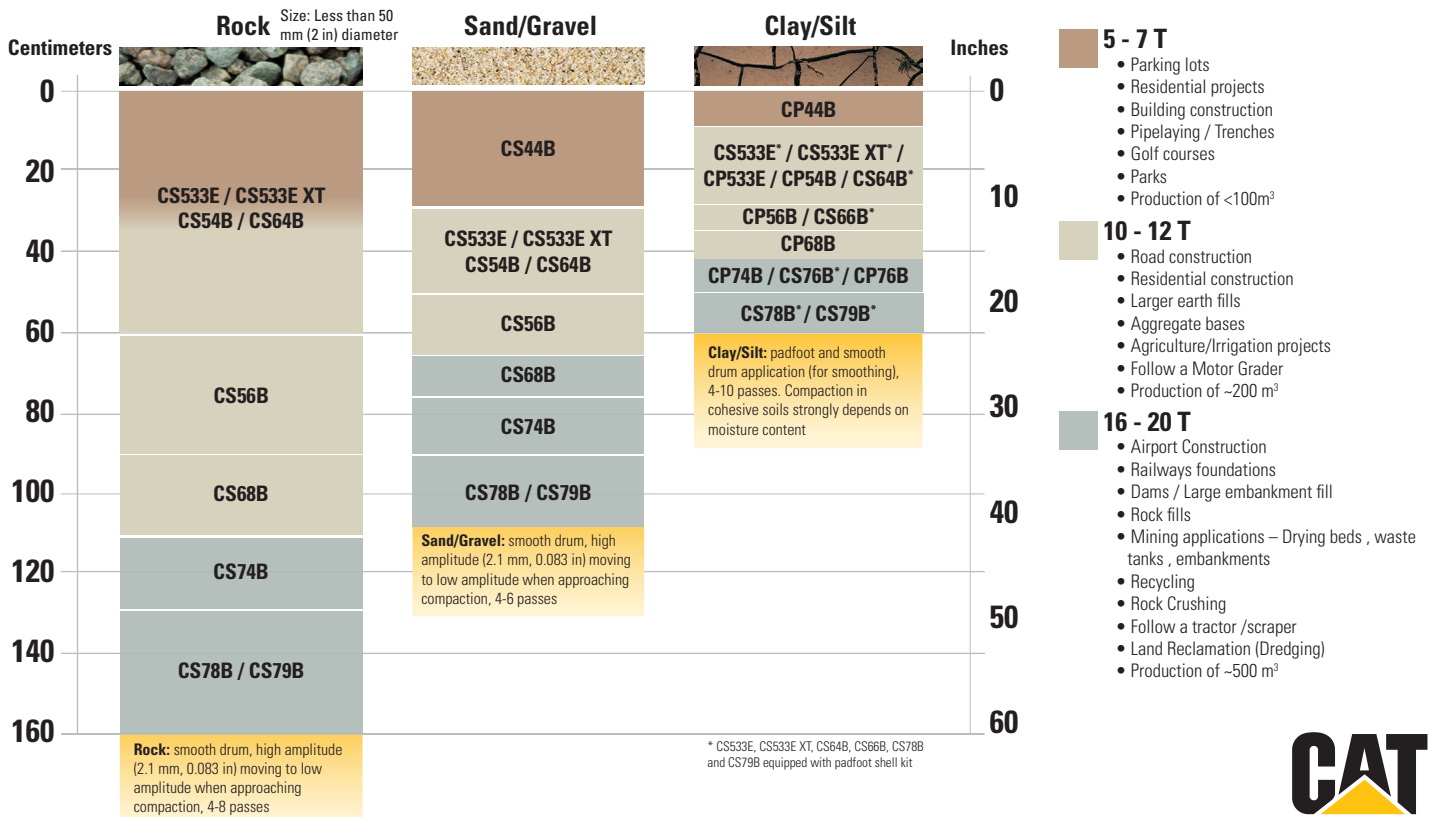
- More weight at the drum and greater amplitude.
- Automated speed control and vibratory system functions make it easy to ensure consistent, high quality compaction.

### Technologies that Enhance Quality and Productivity

- 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.

## VIBRATORY SOIL COMPACTOR SELECTION GUIDE

Assumes density specification is 95% of Standard Proctor and can vary substantially due to different soil conditions.



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## Technical Specifications

Engine - Power Train		
Engine Model	Cat C7.1	
Global Emissions	US EPA Tier 3 EU Stage IIIA	
Gross Power ISO 14396	129.0 kW	173.0 hp
Gross Power SAE J1995	130.2 kW	174.6 hp
Net Power ISO 9249*	108.5 kW	145.5 hp
Net Power SAE J1349*	107.2 kW	143.8 hp
Displacement	7.01 L	428 in <sup>3</sup>
Stroke	135 mm	5.3 in
Bore	105 mm	4.1 in
Max. Travel Speed (Forward or Reverse)	11.4 km/h	7 mph
Theoretical Gradeability, no vibration**	57%	

Weights		
Operating Weight w/ open platform	15 830 kg	34,899 lb
Operating Weight w/ steel sun canopy	15 925 kg	35,109 lb
Operating Weight w/ ROPS/FOPS canopy	16 100 kg	35,494 lb
Operating Weight w/ ROPS/FOPS cab	16 420 kg	36,200 lb
Weight at Drum w/ open platform	10 500 kg	23,149 lb
Weight at Drum w/ steel sun canopy	10 540 kg	23,237 lb
Weight at Drum w/ ROPS/FOPS canopy	10 595 kg	23,358 lb
Weight at Drum w/ ROPS/FOPS cab	10 730 kg	23,656 lb
Additional Weight w/ Leveling Blade	+ 620 kg	+ 1,373 lb

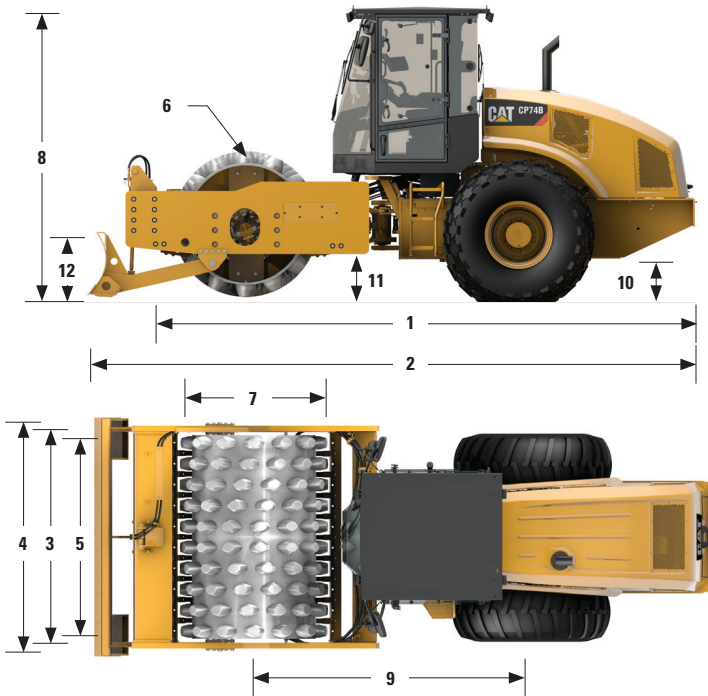
Vibratory System Specifications		
Frequency		
Standard	28 Hz	1680 vpm
During Eco-mode Operation	25.5 Hz	1527 vpm
Optional Variable Frequency	23.3-28 Hz	1400-1680 vpm
Nominal Amplitude @ 30.5 Hz (1830 vpm)		
High	2.1 mm	0.083 in
Low	0.98 mm	0.039 in
Centrifugal Force @ 30.5 Hz (1830 vpm)		
Maximum	332 kN	74,600 lb
Minimum	166 kN	37,300 lb

Service Refill Capacities		
Fuel Tank, total capacity	332 L	88 gal
Cooling System	28.2 L	7.5 gal
Engine Oil w/ Filter	17.4 L	4.6 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, and alternator.

\*\* Actual gradeability may vary based on site conditions and machine configuration. Refer to the Operation and Maintenance Manual for more information.

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## 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	1549 mm	60.9 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	140	
	Pad Height, oval pads	127 mm	5 in
	Pad Face Area, oval pads	74.4 cm <sup>2</sup>	11.5 in <sup>2</sup>
	Pad Height, optional square pads	100 mm	3.9 in
	Pad Face Area, optional square pads	123 cm <sup>2</sup>	19.1 in <sup>2</sup>
	Number of Chevrons	14	

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## Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
<b>OPERATOR ENVIRONMENT</b>			<b>POWER TRAIN</b>		
Steel Sun Canopy with Handrails/Guardrails, Floor Mat	✓		Cat C7.1 Diesel Engine	✓	
Vinyl Adjustable Pivoting Seat with Integrated Console and LCD Display	✓		Air Cleaner, Dual Element	✓	
Adjustable Tilting Steering Column with Integrated Cup Holders	✓		Three-Speed Throttle Switch, Eco-mode and Automatic Speed Control	✓	
Rear Vision Camera with Color Touchscreen Display	✓		Dual Propel Pumps; One for Drum Drive, One for Rear Axle	✓	
Seat Belt	✓		Fuel Filter, Water Separator, Priming Pump, Water Indicator	✓	
12-volt Power Outlet	✓		Tilting Radiator/Hydraulic Oil Cooler	✓	
Horn, Backup Alarm	✓		Dual Braking System	✓	
ROPS/FOPS Canopy		✓	Two-speed Hydrostatic Transmission	✓	
ROPS/FOPS Cab with Climate Control		✓	Transmission Guard		✓
Internal Rear View Mirror		✓	<b>CAT COMPACTION CONTROL TECHNOLOGY</b>		
External Rear View Mirrors		✓	Measure - Machine Drive Power		✓
Sun Visor		✓	Map - SBAS GNSS Mapping		✓
Cab Internal Roll-down Sun Screen		✓	Connect - Machine to Machine Communication		✓
<b>VIBRATORY SYSTEM</b>			<b>ELECTRICAL</b>		
Padfoot Drum	✓		24 volt Electrical System	✓	
Dual Amplitude, Single Frequency	✓		100 ampere Alternator	✓	
Dual Pod-Style Eccentric Weight Housings	✓		750 Cold-cranking Amps Battery Capacity	✓	
Auto-vibe Function	✓		<b>OTHER</b>		
Dual Adjustable Steel Scrapers	✓		Product Link™	✓	
Leveling Blade		✓	Sight Gauges for Hydraulic Oil Level and Radiator Coolant Level	✓	
Variable Frequency		✓	S-O-S <sup>SM</sup> Sampling Valves: Engine Oil, Hydraulic Oil and Coolant	✓	
			Upgraded Halogen Light Package		✓
			Rotating Beacon		✓
			Fuel Fill Access Door		✓

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