

Cat® CP76B

Padfoot Drum Vibratory
Soil Compactor

The Cat® CP76B 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.

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.

diameter

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

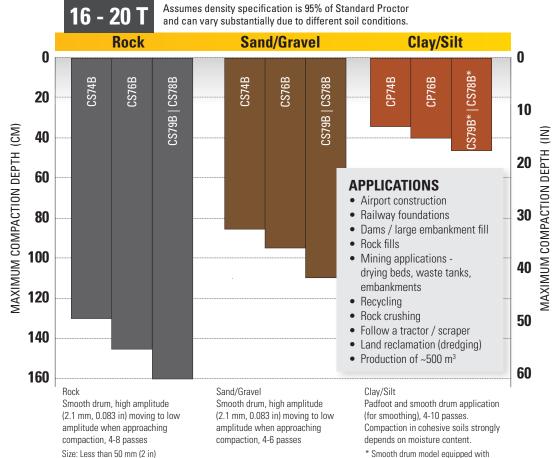
padfoot shell kit

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

Cat Compaction Control - Machine Drive Power (MDP)

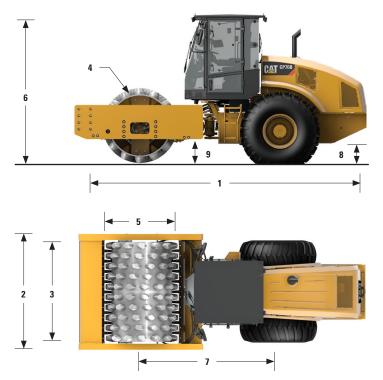
 Helps operator determine when compaction has been completed to specification for greater productivity and uniform compaction quality.

VIBRATORY SOIL COMPACTOR SELECTION GUIDE





Cat® CP76B Padfoot Drum Vibratory Soil Compactor



Dim	ensions		
1	Overall Length	6.13 m	20.1 ft
2	Overall Width	2.37 m	7.78 ft
3	Drum Width	2134 mm	84 in
4	Drum Shell Thickness	40 mm	1.6 in
5	Drum Diameter (over pads)	1549 mm	60.9 in
6	Maximum Overall Height	3.11 m	10.2 ft
7	Wheelbase	2.9 m	9.5 ft
8	Ground Clearance	448 mm	17.6 in
9	Curb Clearance	534 mm	21.0 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 ²	11.5 in ²
Pad Height, optional square pads	100 mm	3.9 in
Pad Face Area, optional square pads	123 cm ²	19.1 in²
Number of Chevrons	14	

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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	129.5 kW	173.7 hp	
Gross Power SAE J1995	130.2 kW	174.6 hp	
Net Power 9249	108.5 kW	145.5 hp	
SAE J1349	107.2 kW	143.8 hp	
Displacement	6.6 L	402.8 in ³	
Stroke	135 mm	5.3 in	
Bore	105 mm	4.1 in	
Max. Travel Speed (Forward or Reverse)	11.4 km/h	7 mph	

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	

Weights		
Operating Weight w/ open platform	17 087 kg	37,670 lb
Operating Weight w/ steel sun canopy	17 182 kg	37,879 lb
Operating Weight w/ ROPS/FOPS canopy	17 357 kg	38,266 lb
Operating Weight w/ ROPS/FOPS cab	17 677 kg	38,971 lb
Weight at Drum w/ open platform	11 694 kg	25,781 lb
Weight at Drum w/steel sun canopy	11 734 kg	25,869 lb
Weight at Drum w/ ROPS/FOPS canopy	11 789 kg	26,010 lb
Weight at Drum w/ ROPS/FOPS cab	11 924 kg	26,288 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	24 L	6.3 gal	
Hydraulic Tank (service refill)	50 L	13.2 gal	

^{*} 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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Standard and Optional Equipment

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

Standard	Optional

OPERATOR ENVIRONMENT		
Open Platform with Handrails/Guardrails, Floor Mat	✓	
Vinyl Adjustable Pivoting Seat with Integrated Console and LCD Display	✓	
Adjustable Tilting Steering Column with Integrated Cup Holders	✓	
Seat Belt	✓	
12-volt Power Outlet	✓	
Horn, Backup Alarm	✓	
Steel Sun Canopy		✓
ROPS/FOPS Canopy		✓
ROPS/FOPS Cab with Climate Control		✓
Internal Rear View Mirror		✓
External Rear View Mirrors		✓
Sun Visor		✓
Cab Internal Roll-down Sun Screen		✓
VIBRATORY SYSTEM		
Padfoot Drum	✓	
Dual Amplitude, Single Frequency	✓	
Dual Pod-Style Eccentric Weight Housings	✓	
Auto-vibe Function	✓	
Dual Adjustable Steel Scrapers	✓	
Variable Frequency		✓

	Standard	Optional
POWER TRAIN		
Cat C7.1 Diesel Engine	\checkmark	
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		✓
CAT COMPACTION CONTROL TECHNOLOGY		
Measure - Machine Drive Power		✓
Map - SBAS GNSS Mapping		✓
Connect - Machine to Machine Communication		✓
ELECTRICAL		
24 volt Electrical System	✓	
100 ampere Alternator	✓	
750 Cold-cranking Amps Battery Capacity	\checkmark	
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	√	
Upgraded Halogen Light Package		√
Rotating Beacon		✓
Fuel Fill Access Door		✓

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at www.cat.com

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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.

