



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.

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.

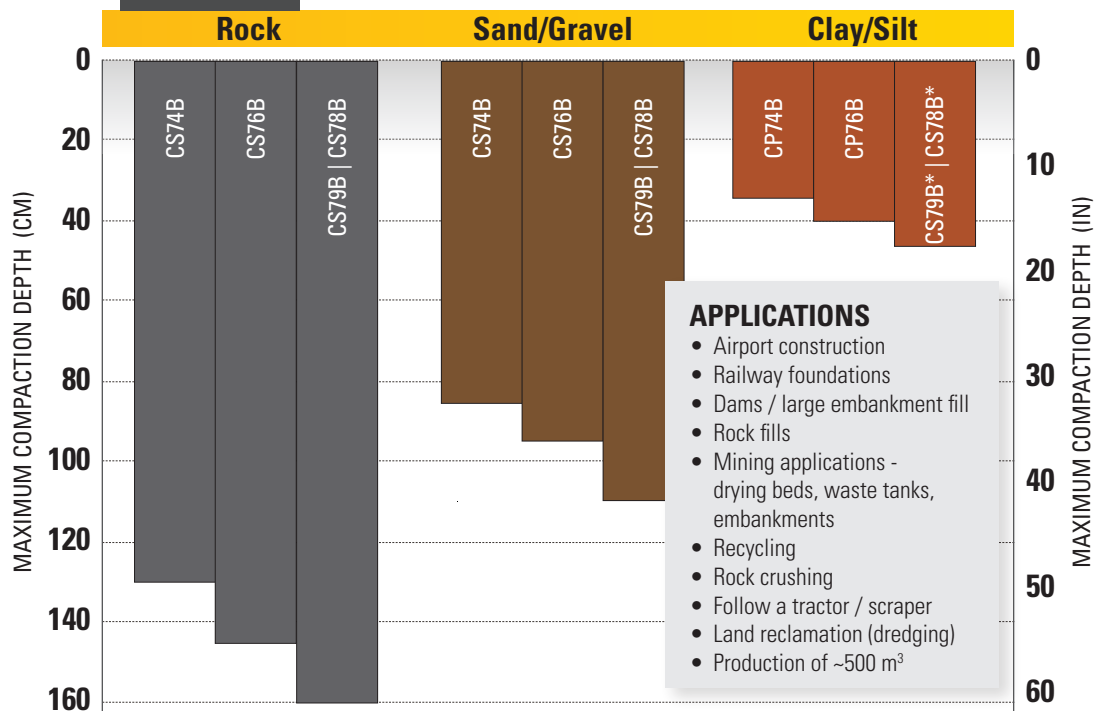
Cat Compaction Control - Machine Drive Power (MDP)

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

VIBRATORY SOIL COMPACTOR SELECTION GUIDE

16 - 20 T

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



APPLICATIONS

- Airport construction
- Railway foundations
- Dams / large embankment fill
- Rock fills
- Mining applications - drying beds, waste tanks, embankments
- Recycling
- Rock crushing
- Follow a tractor / scraper
- Land reclamation (dredging)
- Production of ~500 m³

Rock
Smooth drum, high amplitude (2.1 mm, 0.083 in) moving to low amplitude when approaching compaction, 4-8 passes
Size: Less than 50 mm (2 in) diameter

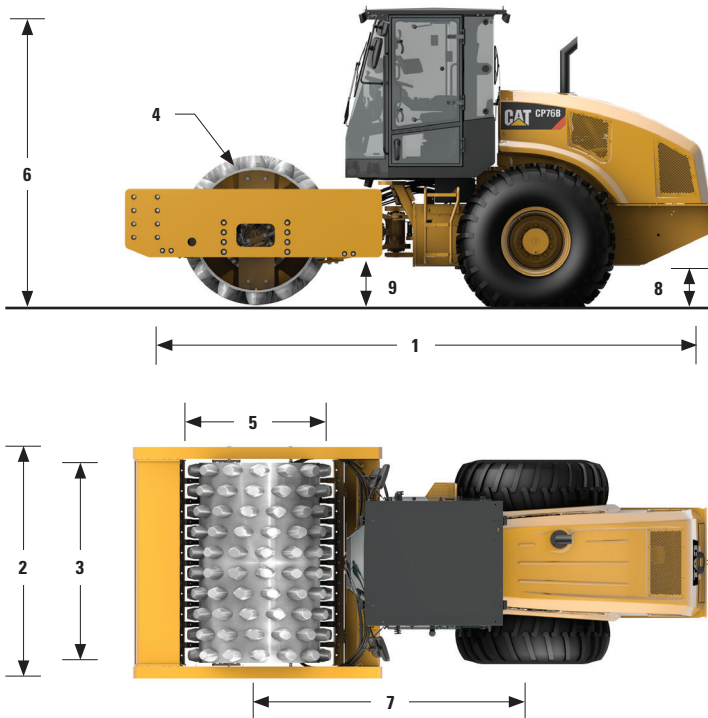
Sand/Gravel
Smooth drum, high amplitude (2.1 mm, 0.083 in) moving to low amplitude when approaching compaction, 4-6 passes

Clay/Silt
Padfoot and smooth drum application (for smoothing), 4-10 passes. Compaction in cohesive soils strongly depends on moisture content.

* Smooth drum model equipped with padfoot shell kit



Cat® CP76B Padfoot Drum Vibratory Soil Compactor



Dimensions

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 in ²
	Number of Chevrons	14	

Cat® CP76B Padfoot Drum Vibratory Soil Compactor

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.

Cat® CP76B Padfoot Drum Vibratory Soil Compactor

Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
OPERATOR ENVIRONMENT			POWER TRAIN		
Open Platform 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	✓	
Seat Belt	✓		Dual Propel Pumps; One for Drum Drive, One for Rear Axle	✓	
12-volt Power Outlet	✓		Fuel Filter, Water Separator, Priming Pump, Water Indicator	✓	
Horn, Backup Alarm	✓		Tilting Radiator/Hydraulic Oil Cooler	✓	
Steel Sun Canopy		✓	Dual Braking System	✓	
ROPS/FOPS Canopy		✓	Two-speed Hydrostatic Transmission	✓	
ROPS/FOPS Cab with Climate Control		✓	Transmission Guard		✓
Internal Rear View Mirror		✓	CAT COMPACTION CONTROL TECHNOLOGY		
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		✓
VIBRATORY SYSTEM			ELECTRICAL		
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	✓		OTHER		
Dual Adjustable Steel Scrapers	✓		Product Link™	✓	
Variable Frequency		✓	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

© 2020 Caterpillar
All rights reserved

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

CAT, CATERPILLAR, LET'S DO THE WORK, their respective logos, "Caterpillar Corporate Yellow," the "Power Edge" and Cat "Modern Hex" trade dress as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

Vision Link is a trademark of Trimble Navigation Limited, registered in the United States and in other countries.

QEHQ2493-01 (11-2020)
Replaces QEHQ2227 (08-2017)
LRC

