



Cat[®] CP68B

Padfoot Drum Vibratory Soil Compactor

The Cat[®] CP68B 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

- Exclusive semi-autonomous Command for Compaction technology automates compaction to offer complete process control to specification for greater productivity and uniform compaction quality
- Exclusive Machine Drive Power (MDP) measurement technology available



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Standard and Optional Equipment

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

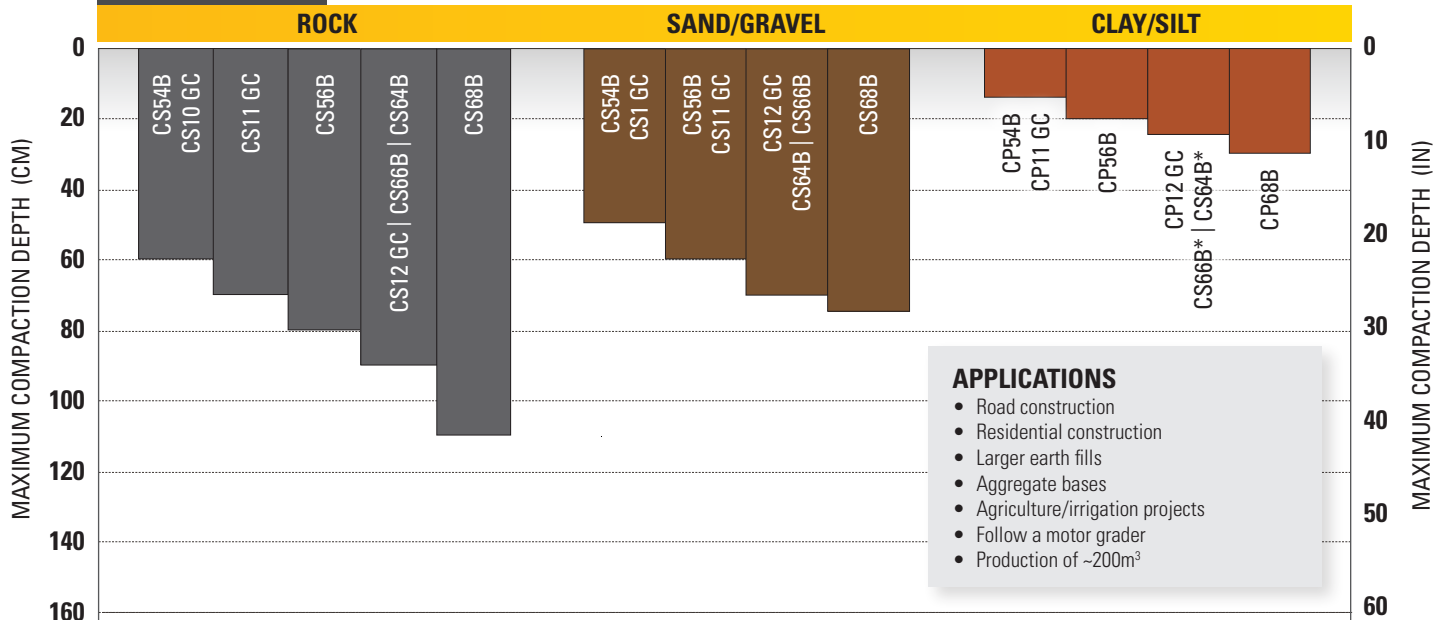
	Standard	Optional		Standard	Optional
OPERATOR ENVIRONMENT			POWERTRAIN		
ROPS/FOPS Cab with Climate Control, External Rear View Mirrors	✓		Cat® C4.4 Diesel Engine	✓	
Cloth Adjustable Pivoting Seat with Integrated Console and LCD Display	✓		Air Cleaner, Dual Element	✓	
Adjustable Tilting Steering Column 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	✓	
Internal Rear View Mirrors		✓	Fuel Filter, Water Separator, Priming Pump, Water Indicator	✓	
Seat Belt	✓		Tilting Radiator/Hydraulic Oil Cooler	✓	
12-volt Power Outlet	✓		Dual Braking System	✓	
Horn, Backup Alarm	✓		Two-speed Hydrostatic Transmission	✓	
Sun Visor		✓	Transmission Guard		✓
Cab Internal Roll-down Sun Screen		✓	ELECTRICAL		
VIBRATORY SYSTEM			24 volt Electrical System	✓	
Padfoot Drum	✓		100 ampere Alternator	✓	
Dual Amplitude, Single Frequency	✓		750 Cold-cranking Amps Battery Capacity	✓	
Dual Pod-Style Eccentric Weight Housings	✓		OTHER		
Auto-vibe Function	✓		Product Link™	✓	
Dual Adjustable Steel Scrapers	✓		Sight Gauges Hydraulic Oil Level and Radiator Coolant Level	✓	
Leveling Blade		✓	S•O•S SM Sampling Valves: Engine Oil, Hydraulic Oil and Coolant	✓	
Variable Frequency		✓	Factory Filled Bio Hydraulic Oil		✓
TECHNOLOGY SOLUTIONS			Upgraded Halogen Light Package		✓
Measure - Machine Drive Power		✓	Amber Rotating Beacon		✓
Map - SBAS GNSS Mapping		✓	Fuel Fill Access Door		✓
Connect - Cloud and Machine Connectivity		✓			
Command for Compaction		✓			

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Vibratory Soil Compactor Selection Guide

10 - 15 T

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



- APPLICATIONS**
- Road construction
 - Residential construction
 - Larger earth fills
 - Aggregate bases
 - Agriculture/irrigation projects
 - Follow a motor grader
 - Production of ~200m³

Rock
Smooth drum, high amplitude moving to low amplitude when approaching compaction, 4-8 passes

Size: Less than 50 mm (2 in) diameter

Sand/Gravel
Smooth drum, high amplitude 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

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Technical Specifications

Engine - Powertrain		
Engine Model	Cat® C4.4	
Emissions	U.S. EPA Tier 4 Final EU Stage IV	
Engine Power ISO 14396:2002	117.0 kW	156.9 hp
Gross Power SAE J1995:2014	118.6 kW	159.0 hp
Net Power ISO 9249:2007*	98.1 kW	131.6 hp
Net Power SAE J1349:2011*	96.9 kW	129.9 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, with or without vibration**	65%	

Weights		
Operating Weight w/ ROPS/FOPS cab***	14 685 kg	32,370 lb
w/ Leveling Blade	15 345 kg	33,824 lb
Weight at Drum w/ ROPS/FOPS cab	9250 kg	20,387 lb
w/ Leveling Blade	10 220 kg	22,522 lb

* 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.

Vibratory System Specifications			
Frequency			
Standard	30.5 Hz	1830 vpm	
During Eco-mode Operation	27.7 Hz	1664 vpm	
Optional Variable Frequency	23.3-30.5 Hz	1400-1830 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	301 kN	67,600 lb	
Minimum	141 kN	31,670 lb	

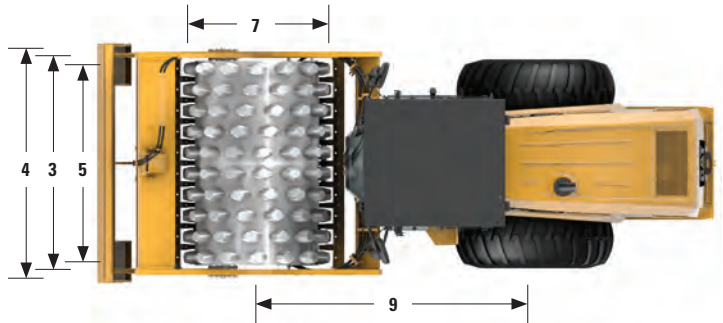
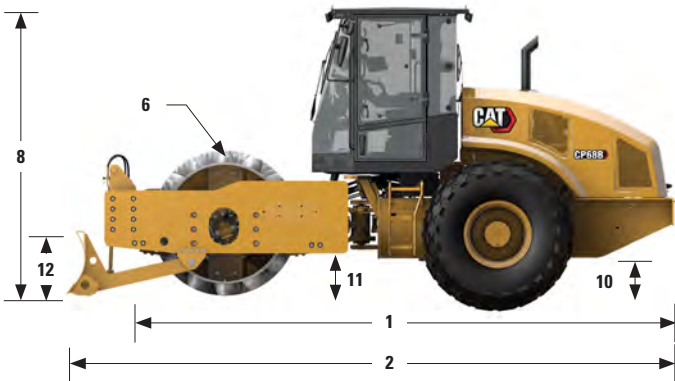
Service Refill Capacities		
Fuel Tank, total capacity	242 L	64 gal
Diesel Exhaust Fuel refill capacity	19 L	5 gal
Cooling System	27.8 L	7.3 gal
Engine Oil w/ Filter	11.6 L	3.1 gal
Eccentric Weight Housings (combined)	26 L	6.9 gal
Axle and Final Drives	24 L	6.3 gal
Hydraulic Tank (service refill)	50 L	13.2 gal

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Technical Specifications

Dimensions			
1	Overall Length	6.1 m	19.9 ft
2	Overall Length w/ optional Leveling Blade	6.6 m	21.5 ft
3	Overall Width	2.3 m	7.7 ft
4	Overall Width w/ optional Leveling Blade	2.5 m	8.2 ft
5	Drum Width	2134 mm	84 in
6	Drum Shell Thickness	25 mm	1.0 in
7	Drum Diameter	1534 mm	60.4 in
8	Overall Height	3.1 m	10.2 ft
9	Wheelbase	2.9 m	9.5 ft
10	Ground Clearance	437 mm	17.2 in
11	Curb Clearance	489 mm	19.3 in
12	Optional Leveling Blade Height	688 mm	27.1 in
	Inside Turning Radius	3.7 m	12.1 ft
	Hitch Articulation Angle	34°	
	Hitch Oscillation Angle	15°	

Padfoot Specifications			
Number of Pads		140	
Pad Height, oval pads		127.0 mm	5.0 in
Pad Face Area, oval pads		74.4 cm ²	11.5 in ²
Pad Height, optional square pads		100.0 mm	3.9 in
Pad Face Area, optional square pads		123.1 cm ²	19.1 in ²
Number of Chevrons		14	



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Environmental Declaration

The following information applies to the machine at the time of final manufacture as configured for sale in the regions covered in this document. The content of this declaration is valid as of the date issued; however, content related to machine features and specifications are subject to change without notice. For additional information, please see the machine's Operation and Maintenance Manual.

For more information on sustainability in action and our progress, please visit www.caterpillar.com/en/company/sustainability.html.

ENGINE

- The Cat C4.4 is available in configurations that meet U.S. Tier 4 Final and EU Stage IV emissions standards.
- Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels up to:
 - ✓ 20% biodiesel FAME (fatty acid methyl ester)*
 - ✓ 100% renewable diesel, HVO (hydrogenated vegetable oil) and GTL (gas-to-liquid) fuels

Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.

**Engines with no aftertreatment devices can use higher blends, up to 20% biodiesel.*

AIR CONDITIONING SYSTEM

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.8 kg (1.8 lb) of refrigerant, which has a CO₂ equivalent of 1.144 metric tonnes (1.261 tons).

PAINT

- Based on best available knowledge, the maximum allowable concentration, measured in parts per million (PPM), of the following heavy metals in paint are:
 - Barium < 0.01%
 - Cadmium < 0.01%
 - Chromium < 0.01%
 - Lead < 0.01%

SOUND PERFORMANCE

With cooling fan speed at maximum value:

Exterior Sound Power Level (ISO 6395:2008) – 108 dB(A)

With cooling fan speed at 70% of maximum value:

Operator Sound Pressure Level (ISO 6396:2008) – 79 dB(A)

- When properly installed and maintained, the cab offered by Caterpillar, when tested with doors and windows closed according to ANSI/SAE J1166 OCT98, meets OSHA and MSHA requirements for operator sound exposure limits in effect at time of manufacture.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/windows open) for extended periods or in a noisy environment.

OILS AND FLUIDS

- Caterpillar factory fills with ethylene glycol coolants. Cat Diesel Engine Antifreeze/Coolant (DEAC) and Cat Extended Life Coolant (ELC) can be recycled. Consult your Cat dealer for more information.
- Cat BIO HYDO™ Advanced is an EU Ecolabel approved biodegradable hydraulic oil.
- Additional fluids are likely to be present, please consult the Operations and Maintenance Manual or the Application and Installation guide for complete fluid recommendations and maintenance intervals.

FEATURES AND TECHNOLOGY

- The following features and technology may contribute to fuel savings and/or carbon reduction. Features may vary. Consult your Cat dealer for details.
 - Standard eco-mode limits engine RPM, lowering overall fuel consumption compared to high idle
 - Optional compaction control reduces unnecessary passes, contributing to lower overall fuel consumption
 - Extended maintenance intervals reduce fluid and filter consumption
 - Auto idle shutdown reduces unproductive hours and fuel burned
 - Hydraulic on demand fan changes speed with temperature

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For more 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.

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Build Number 01A

