

Cat[®] CP11 Padfoot Drum Vibratory Soil Compactor

The Cat[®] CP11 Vibratory Soil Compactor features a padfoot drum and is ideally suited for cohesive and semi-cohesive soil applications. A reliable propel system improves performance and efficiency and compaction technology solutions help you reach target density faster.

Efficient Power

- Built around a dual pump propel system, two pumps provide separate dedicated flow to the drum drive motor and rear axle motor for exceptional gradeability and traction in forward and reverse.
- Powered by a Cat[®] C4.4 engine that meets Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.
- Eco-mode limits engine RPM helping to reduce fuel consumption.
- Engine Idle Shutdown Timer reduces fuel burn and unnecessary idle time by shutting down the machine after a pre-set idling period.
- A variable speed cooling fan operates at the lowest possible speed for optimal cooling.

Exceptional Compaction Performance

- High static linear loads and amplitudes.
- Exclusive eccentric weight design provides high reliability, smooth performance and low noise.
- The Auto-vibe function makes it easy to ensure consistent, highquality compaction.
- The Variable Frequency option provides a wide range of frequencies to help maximize compaction performance.
- A unique oval padfoot design delivers higher weight concentration and deeper penetration for increased compaction effort. Also available in a square pad design.

Safe and Comfortable Work Environment

- A rear vision camera with large color touchscreen display enhances visibility for more complete operator control and safety.
- The pivoting seat with integrated multifunction LCD display and control console move with the operator.
- Outstanding visibility to the front and rear of machine.
- Low sound levels and vibration for greater operator comfort and productivity.
- Operators are protected from the elements by a standard equipped sun canopy, optional ROPS/FOPS canopy or optional climatecontrolled ROPS/FOPS cab with hinged glass windows.

Enhance Quality and Productivity with Technology

- Optional Cat Compact technology helps you consistently meet compaction targets faster, more uniformly, and in fewer passes saving on fuel and reducing rework and material costs.
 - Exclusive Machine Drive Power (MDP) is an energy-based measurement and can be used on all soil types.

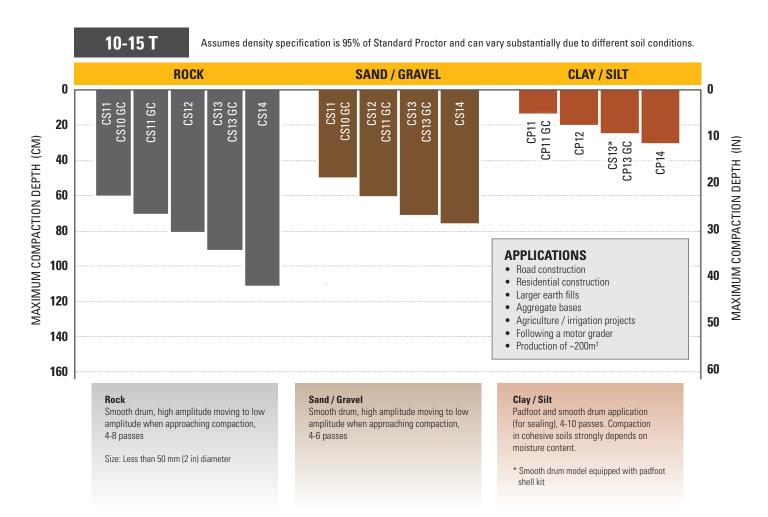


Virtually Maintenance Free

- Maintenance-free hitch with sealed-for-life bearings.
- Ground-level access to the engine compartment and cooling module for easy service and fluid sampling.
- Monitor fluid conditions with regular sampling to help extend change intervals up to 500 hours engine oil, 3000 hours eccentric housing and hydraulic oil, and 12000 hours coolant.
- Extended maintenance intervals not only reduce downtime but decrease the amount of fluid and filters that are replaced over the life of the machine.
- VisionLink[®] takes the guesswork out of managing your entire fleet-regardless of size or equipment manufacturer*-by providing maintenance needs, machine hours, location, fuel usage, idle time, diagnostic codes, and more through interactive dashboards on your mobile device or desktop, helping you make informed decisions that lower costs, simplify maintenance, and improve safety and security on your jobsite.
- * Data field availability can vary by equipment manufacturer and is provided through an application programming interface (API).

Vibratory Soil Compactor Selection Guide

This chart helps you select which model is best suited for your work. Not all models listed are available in each region. Contact your Cat dealer representative for more information.



Standard and Optional Equipment

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

	Standard	Optional
OPERATOR ENVIRONMENT		
Steel Sun Canopy with Handrails, Floor Mat, Vinyl Seat	\checkmark	
ROPS/FOPS Canopy with Handrails, Floor Mat, Vinyl Seat		\checkmark
ROPS/FOPS Cab with Climate Control, Cloth Seat, Exterior Rear View Mirrors		\checkmark
Sun Visor (Cab)		\checkmark
Roll-Down Screen (Cab)		\checkmark
Adjustable Seat with Integrated Console	\checkmark	
LCD Display with Lockable Vandalism Guard	\checkmark	
Adjustable Tilting Steering Column with Integrated Cup Holders	\checkmark	
Rear Vision Camera System with Color Touchscreen Display	\checkmark	
High Visibility 50 mm (2 in) Seat Belt	\checkmark	
12-volt Power Outlet	\checkmark	
Horn, Backup Alarm	\checkmark	
VIBRATORY SYSTEM		
Padfoot Drum – Oval or Square Pads	\checkmark	
Pod-Style Eccentric Weight Housings	\checkmark	
Dual Amplitude, Single Frequency	\checkmark	
Variable Frequency		\checkmark
Auto-vibe Function	\checkmark	
Dual Adjustable Steel Scrapers	\checkmark	
TECHNOLOGY SOLUTIONS		
VisionLink®	\checkmark	
Measure – Machine Drive Power (MDP)		\checkmark

	Standard	Optional
POWERTRAIN		
Cat® C4.4 Engine	\checkmark	
Air Cleaner, Dual Element	\checkmark	
Three Speed Throttle Switch including Eco-mode	\checkmark	
Dual Propel Pumps; One for Drum Drive, One for Rear Axle	\checkmark	
Fuel Filter, Water Separator, Priming Pump, Water Indicator	\checkmark	
Tilting Radiator / Hydraulic Oil Cooler	\checkmark	
Dual Braking System	\checkmark	
Two-Speed Hydrostatic Transmission	\checkmark	
Limited Slip Differential	\checkmark	
Transmission Guard		\checkmark
ELECTRICAL		
24 volt Electrical System	\checkmark	
85 ampere Alternator	\checkmark	
750 Cold-cranking Amps Battery Capacity OTHER	\checkmark	
Lockable Engine Enclosure, Hydraulic and Fuel Tanks	\checkmark	
Sight Gauges for Hydraulic Oil Level and Radiator Coolant Level	\checkmark	
S•O•S [™] Sampling Values: Engine Oil, Hydraulic Oil, and Coolant	\checkmark	
Halogen Working Lights (4)	\checkmark	
Halogen Working Lights (8)		\checkmark
Amber Rotating Beacon		\checkmark

Technical Specifications

Engine and Powertrain		
Engine Model	Cat C4.4	
Emissions	Brazil MAR-1, equivalent to U.S. EPA Tier 3 and EU Stage IIIA	
Engine Power – ISO 14396:2002	96.5 kW	129.4 hp
Gross Power – SAE J1995:2014	97.1 kW	130.2 hp
Net Power – ISO 9249:2007*	85.3 kW	114.4 hp
Net Power – SAE J1349:2011*	84.3 kW	113 hp
Number of Cylinders		4
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 km/h	6.8 mph
Theoretical Gradeability, with or without vibration**	54	1%

* 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.

Vibratory System		
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 vp	om)	
High	1.8 mm	0.071 in
Low	0.88 mm	0.035 in
Centrifugal Force @ 30.5 Hz (1830 vpn	ו)	
Maximum	257 kN	57,757 lb
Minimum	126 kN	28,374 lb
VM Class at High Amplitude (Cab Configuration)	V	/M3

Weights **Operating Weight with Oval Padfoot Drum Steel Sun Canopy** 10 645 kg 23,468 lb **ROPS/FOPS** Canopy 11 182 kg 24,652 lb **ROPS/FOPS** Cab 11 383 kg 25,095 lb Weight at Drum with Oval Padfoot Drum **Steel Sun Canopy** 6200 kg 13,669 lb **ROPS/FOPS** Canopy 6302 kg 13,894 lb **ROPS/FOPS** Cab 6395 kg 14,099 lb

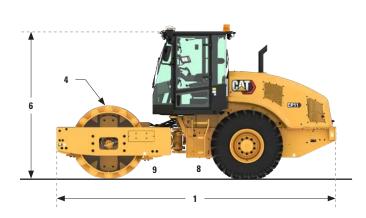
Operating weights are approximate and consider full fluids and 80 kg (176 lb) operator. Cab weights include heat and air conditioning.

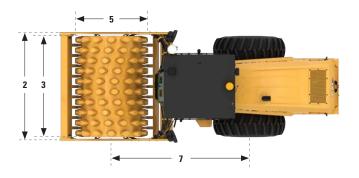
Service Refill Capaciti	es	
Fuel Tank	242 L	63.9 gal
Cooling System	29.4 L	7.8 gal
Heating System	1.2 L	0.3 gal
Engine Oil with Filter	9.5 L	2.5 gal
Eccentric Weight Housings (combined)	26 L	6.9 gal
Axle and Final Drives	18 L	4.8 gal
Hydraulic Tank	50 L	13.2 gal

Technical Specifications

	Dimensions		
1	Overall Length	5.9 m	19.2 ft
2	Overall Width	2.3 m	7.5 ft
3	Drum Width	2134 mm	84 in
4	Drum Shell Thickness	25 mm	1 in
5	Drum Diameter		
	Over Oval Pads	1550 mm	61 in
	Over Square Pads	1495 mm	58.9 in
6	Overall Height		
	Canopy	3.1 m	10.1 ft
	Cab	3.1 m	10.2 ft
7	Wheelbase	2.9 m	9.5 ft
8	Ground Clearance	440 mm	17.3 in
9	Curb Clearance	542 mm	21.3 in
	Inside Turning Radius	3.7 m	12.1 ft
	Hitch Articulation Angle	34	0
	Hitch Oscillation Angle	15	0

Padfoot Drum		
Number of Pads	14	0
Number of Chevrons	14	
Oval Pads		
Pad Height	127 mm	5 in
Pad Face Area	74.4 cm ²	11.5 in ²
Square Pads		
Pad Height	100 mm	3.9 in
Pad Face Area	123.1 cm ²	19.1 in ²





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 meets Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.
- Cat engines are compatible with diesel fuel blended with the following lower-carbon intensity fuels* up to:
 - ✓ 20% biodiesel FAME (fatty acid methyl ester)
 - ✓ 100% renewable diesel, HVO (hydrotreated 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.

*Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.

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 CO_2 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%</p>
- Lead < 0.01%

SOUND PERFORMANCE

Operator Sound Pressure Level (ISO 6396:2008) with cooling fan speed at 70% of maximum value - 79 dB(A)

Exterior Sound Power Level (ISO 6395:2008) with cooling fan speed at 100% of maximum value -108 dB(A)

- The operator sound pressure level is measured according to the test procedures and conditions specified in ISO 6396:2008 for a cab offered by Caterpillar, when properly installed and maintained and tested with the door and windows closed. The measurements were conducted at 70% of the maximum engine cooling fan speed.
- The exterior sound power level is measured according to the test procedures and conditions specified in ISO 6395:2008 for a Caterpillar machine that is properly equipped and maintained. The measurements were conducted at 100% of the maximum engine cooling fan speed.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained for doors/windows open) for extended periods or in noisy environment(s).

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
 - Optional compaction control technology reduces unnecessary passes, increasing operating efficiency
- Extended maintenance intervals reduce fluid and filter consumption
- Engine Idle Shutdown Timer reduces unproductive hours and fuel burned
- Variable speed cooling fan operates at the lowest speed for optimal cooling

RECYCLING

• The materials included in machines are categorized as below with approximate weight percentage. Because of variations of product configurations, the following values in the table may vary.

Material Type	Weight Percentage	
Steel	74.68%	
Iron	12.70%	
Nonferrous Metal	1.99%	
Mixed Metal	0.50%	
Mixed-Metal and Nonmetal	0.51%	
Plastic	1.04%	
Rubber	2.87%	
Mixed Nonmetallic	0.00%	
Fluid	1.84%	
Other	2.00%	
Uncategorized	1.87%	
Total	100%	

 A machine with higher recyclability rate will ensure more efficient usage of valuable natural resources and enhance End-of-Life value of the product. According to ISO 16714:2008 (Earthmoving machinery – Recyclability and recoverability – Terminology and calculation method), recyclability rate is defined as percentage by mass (mass fraction in percent) of the new machine potentially able to be recycled, reused or both.

All parts in the bill of material are first evaluated by component type based on a list of components defined by the ISO 16714:2008 and Japan CEMA (Construction Equipment Manufacturers Association) standards. Remaining parts are further evaluated for recyclability based on material type.

Because of variations of product configurations, the following value in the table may vary.

Recyclability - 96%



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.

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QEHQ3075 (12-2023) Build Number: 03A (Brazil MAR-1, equivalent to U.S. EPA Tier 3 and EU Stage IIIA)

