



CP11 GC

Vibratory Soil Compactor

Technical Specifications

Configurations and features may vary by region. Please consult your Cat® dealer for availability in your area.

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ENGINE

Engine Model	Cat® C3.6	
Engine Power - ISO 14396:2002	90.0 kW	120.7 hp
Gross Power - SAE J1995:2014	91.7 kW	123 hp
Net Power - ISO 9249:2007	83.7 kW	112.2 hp
Net Power - SAE J1349:2011	82.9 kW	111.2 hp
Displacement	3.6 L	219.7 in ³
Stroke	120 mm	4.7 in
Bore	98 mm	3.9 in

- Cat C3.6 engine meets U.S. EPA Tier 4 Final / EU Stage V emission standards.
- The power ratings apply at an engine speed of 2,000 rpm when tested under the conditions for the specified standard in effect at the time of manufacture. The stated speed is when tested under the reference conditions for the specified standards.
- 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 with engine speed at 2,000 rpm.
- The gross power advertised is with the fan at maximum speed.

SERVICE REFILL CAPACITIES

Fuel Tank (total capacity)	213 L	56.3 gal
Diesel Exhaust Fluid (DEF) refill capacity	19 L	5.0 gal
Cooling System	18.5 L	4.9 gal
Engine Oil w/ Filter	11.6 L	3.1 gal
Eccentric Weight Housings (combined)	26 L	6.9 gal
Axle and Final Drives	10 L	2.6 gal
Hydraulic Tank (service refill)	23 L	6.1 gal

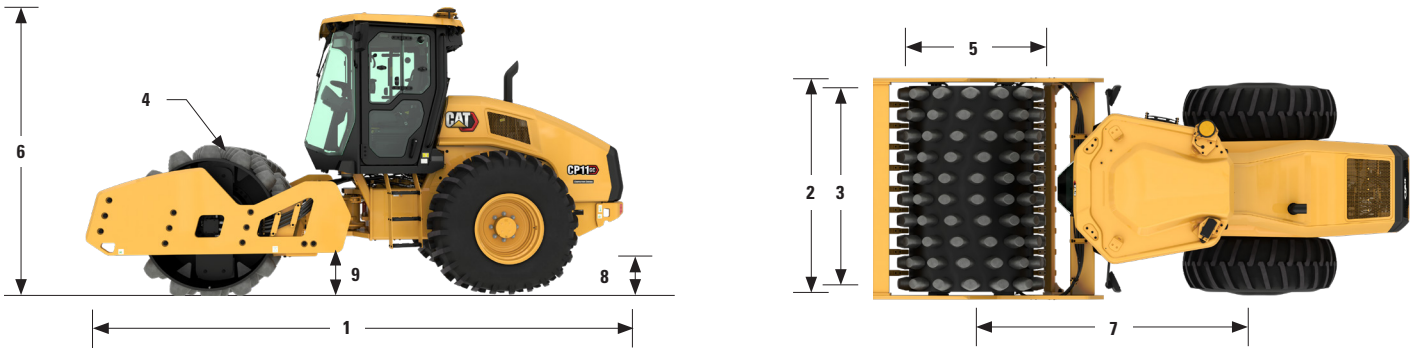
STANDARDS

Brakes	Brakes meet ISO 3450:2011 standards
Cab/ROPS	ROPS/FOPS meet ISO 3471:2008 and ISO 3449:2005 Level II standards

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DIMENSIONS

All dimensions are approximate



1 Overall Length	5.70 m	18.71 ft
2 Overall Width	2.30 m	7.53 ft
3 Drum Width	2134 mm	84 in
4 Drum Shell Thickness	25 mm	0.98 in
5 Drum Diameter	1535 mm	60.4 in
6 Overall Height		
Oval Faced Padfoot	3.0 m	9.8 ft
Square Faced Padfoot	3.0 m	9.8 ft
7 Wheelbase	3.0 m	9.8 ft
8 Ground Clearance		
Oval Faced Padfoot	516 mm	20.3 ft
Square Faced Padfoot	525 mm	20.7 ft
9 Curb Clearance		
Oval Faced Padfoot	496 mm	19.5 ft
Square Faced Padfoot	480 mm	18.9 ft
Inside Turning Radius	3.86 m	12.7 ft
Hitch Articulation Angle		34°
Hitch Oscillation Angle		15°

PADFOOT SPECIFICATION

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, square pads	100 mm	3.9 in
Pad Face Area, square pads	123.1 cm ²	19.1 in ²
Number of Chevrons		14

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DRIVE SYSTEM

Max. Travel Speed		
High Idle	11 km/h	6.84 mph
Eco-mode	9.4 km/h	5.84 mph
Max. Working Speed		
High Idle	5.6 km/h	3.5 mph
Eco-mode	5.0 km/h	3.1 mph
Rimpull	57 kN	12,814 lbf
Theoretical Gradeability, with or without vibration	55%	

- Maximum Travel speeds is measure with smooth drum and diamond tire configured.
- Actual gradeability may vary based on site conditions and machine configuration. Refer to the Operation and Maintenance Manual for more information.

VIBRATION SYSTEM

Nominal Amplitude - High		
Standard Frequency	1.8 mm	0.071 in
Eco-mode Frequency	30 Hz	1800 vpm
Nominal Amplitude - Low		
Frequency	28.6 Hz	1716 vpm
Eco-mode Frequency	0.89 mm	0.035 in
Centrifugal Force		
Maximum	33 Hz	1980 vpm
Minimum	31.5 Hz	1890 vpm
Maximum	249 kN	55,932 lbf
Minimum	148 kN	33,249 lbf

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OPERATION SPECIFICATION	ROPS/FOPS Canopy		ROPS/FOPS Cab	
	Operating Weight - w/ Oval Padfoot	11 235 kg	24,769 lb	11 389 kg
At Drum	6345 kg	13,988 lb	6388 kg	14,084 lb
French Classification, data/class				
High Amplitude	39.9	VM2	40.2	VM3
Low Amplitude	27.9	VM2	28.1	VM2
Operating Weight - w/ Square Padfoot	11 267 kg	24,840 lb	11 421 kg	25,179 lb
At Drum	6377 kg	14,059 lb	6420 kg	14,154 lb
French Classification, data/class				
High Amplitude	40.1	VM3	40.4	VM3
Low Amplitude	28.0	VM2	28.2	VM2

- All operating weights shown are based on standard configurations with full level fluids, 75 kg operator, smooth/shell kit drum w/ diamond tires, padded drum w/bar tread tires and cab w/ heat & A/C.

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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 Canopy with Handrails/ Guardrails, Floormat	✓		Cat® C3.6 Diesel Engine, 4 cylinder	✓	
Vinyl Adjustable Seat, Seat Belt	✓		Single Propel Pump	✓	
Adjustable Tilting Steering Column	✓		Fuel Filter, Water Separator, Priming Pump, Water Indicator	✓	
12-volt Power Outlet	✓		Radiator/Hydraulic Oil Cooler	✓	
Horn, Backup Alarm	✓		Dual Braking System	✓	
Internal Rear View Mirror	✓		Two-speed Hydrostatic Transmission	✓	
ROPS/FOPS Cab with Climate Control		✓	Transmission Guard		✓
Deluxe High-back Air-ride Seat (Cab)		✓	TECHNOLOGY SOLUTIONS		
Sun/Debris Shields (Canopy)		✓	Measure - Machine Drive Power		✓
Cab Internal Roll-down Sun Screen (Cab)		✓	Map - SBAS GNSS Mapping		✓
Rear View Camera with Color Touchscreen Display		✓	Connect - Cloud and Machine Connectivity		✓
Sound Reduction Kit		✓	ELECTRICAL		
VIBRATORY SYSTEM			12 volt Electrical System	✓	
Padfoot Drum	✓		150 ampere Alternator	✓	
Dual Amplitude, Dual Frequency	✓		900 Cold-cranking Amps Battery Capacity	✓	
Pod-Style Eccentric Weight Housings	✓		OTHER		
Auto-vibe Function	✓		Product Link™	✓	
Dual Adjustable Steel Scrapers	✓		Sight Gauges for Hydraulic Oil Level and Radiator Coolant Level	✓	
			S-O-S SM Sampling Valves: Engine Oil, Hydraulic Oil and Coolant	✓	
			High Ambient Temperature Oil Factory Fill		✓
			Printer Port		✓
			Seat Belt Switch		✓
			Upgraded LED Light Package		✓
			Amber Rotating Beacon		✓

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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 C3.6 is available in configurations that meet U.S. EPA Tier 4 Final and EU Stage V emission 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 (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.

**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 2.2 kg (4.91 lb) of refrigerant, which has a CO₂ equivalent of 3.146 metric tonnes (3.468 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 Pressure Level (SAE J88:2013) – 107 dB(A)

Operator Sound Pressure Level (ISO 6396:2008) – 85 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 by up to 10% 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 engine idle shutdown reduces unproductive hours and fuel burned

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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N Am, Europe, Korea

