



CP12 GC

Vibratory Soil Compactor

Technical Specifications

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

TABLE OF CONTENTS

Specifications

Engine	2
Service Refill Capacities	2
Standards	2
Dimensions	3
Padfoot Specifications	3
Drive	4
Vibration System	4
Operation Specifications	5
Standard and Optional Equipment	6



CP12 GC Vibratory Soil Compactor Specifications

ENGINE

Engine Model	Cat® C4.4	
Gross Power - ISO 14396	83.0 kW	111.3 hp
Gross Power - SAE J1995	83.8 kW	112.4 hp
Net Power - ISO 9249	79.4 kW	106.5 hp
Net Power - SAE J1349	78.5 kW	105.3 hp
Displacement	4.4 L	268.5 in ³
Stroke	127 mm	5.0 in
Bore	105 mm	4.1 in

- Cat C4.4 engine meets US EPA Tier 3 Final / EU Stage IIIA emission standards.
- The power ratings apply at an engine speed of 2,200 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 2,200 rpm.
- The gross power advertised is with the fan at maximum speed.

SERVICE REFILL CAPACITIES

Fuel Tank (total capacity)	248 L	65.6 gal
Cooling System	18.5 L	4.9 gal
Engine Oil w/ Filter	9.5 L	2.5 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

SOUND PERFORMANCE (declared)

ISO 6393:2008 (external)	107 dB(A)
ISO 6394:2008 (inside cab)	81 dB(A)

SOUND PERFORMANCE (tested)

- The declared static operator sound pressure level is measured according to the static test procedures and conditions that are specified in ISO 6394 (interior) and ISO 6393 (exterior). The sound level may vary at different engine and/or cooling fan speeds. The measurement was conducted with the cab doors and the cab windows closed. The cab was properly installed and maintained.
- 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.

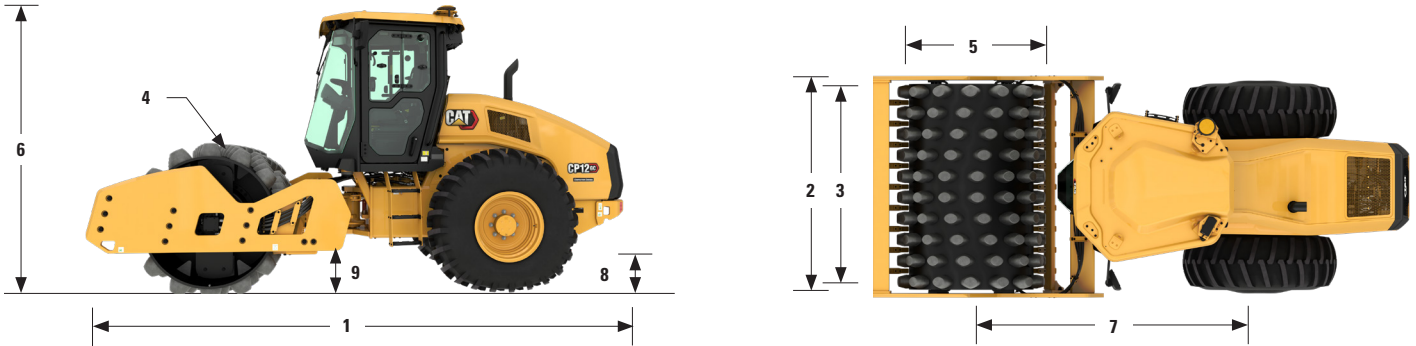
STANDARDS

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

CP12 GC Vibratory Soil Compactor Specifications

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	1549 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

CP12 GC Vibratory Soil Compactor Specifications

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	50%	

- 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	30.0 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

CP12 GC Vibratory Soil Compactor Specifications

OPERATION SPECIFICATION	Sun Canopy		ROPS/FOPS Canopy		ROPS/FOPS Cab	
Operating Weight - w/ Oval Padfoot	12 307 kg	27,132 lb	12 485 kg	27,524 lb	12 639 kg	27,863 lb
At Drum	7655 kg	16,877 lb	7725 kg	17,030 lb	7767 kg	17,123 lb
French Classification, data/class						
High Amplitude	48.1	VM3	48.6	VM3	48.8	VM3
Low Amplitude	33.7	VM2	34.0	VM2	34.1	VM2
Operating Weight - w/ Square Padfoot	12 339 kg	27,203 lb	12 517 kg	27,594 lb	12 671 kg	27,934 lb
At Drum	7687 kg	16,947 lb	7757 kg	17,100 lb	7800 kg	17,195 lb
French Classification, data/class						
High Amplitude	48.3	VM3	48.8	VM3	49.0	VM3
Low Amplitude	33.8	VM2	34.1	VM2	34.3	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.
- The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 2.2 kg of refrigerant, which has a CO2 equivalent of 3.146 metric tonnes.

CP12 GC Vibratory Soil Compactor Specifications

Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
OPERATOR ENVIRONMENT			POWER TRAIN		
Steel Canopy with Handrails/Guardrails, Floor Mat	✓		Cat C4.4 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 Canopy with Handrails/Guardrails, Floormat		✓	Transmission Guard		✓
ROPS/FOPS Cab with Climate Control		✓	TECHNOLOGY SOLUTIONS		
Rear View Camera with Color Touchscreen Display (Cab)		✓	Measure - Machine Drive Power		✓
Sun/Debris Shields (Canopy)		✓	Map - SBAS GNSS Mapping		✓
Cab Internal Roll-down Sun Screen (Cab)		✓	Connect - Cloud and Machine Connectivity		✓
Sound Reduction Kit		✓	ELECTRICAL		
Sun Visor (Cab)		✓	12 volt Electrical System	✓	
Vinyl Suspension Seat w/ Arm Rest		✓	120 ampere Alternator	✓	
Deluxe High-back Air-ride seat (Cab)		✓	900 Cold-cranking Amps Battery Capacity	✓	
VIBRATORY SYSTEM			OTHER		
Padfoot Drum	✓		Product Link™	✓	
Dual Amplitude, Dual Frequency	✓		Sight Gauges for Hydraulic Oil Level and Radiator Coolant Level	✓	
Pod-Style Eccentric Weight Housings	✓		S-O-S SM Sampling Valves: Engine Oil, Hydraulic Oil and Coolant	✓	
Auto-vibe Function	✓		Lug Tread Tires	✓	
Dual Adjustable Steel Scrapers	✓		High Ambient Temperature Oil Factory Fill		✓
			Additional External Rear View Mirror		✓
			Upgraded LED Light Package		✓
			Amber Rotating Beacon		✓

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QEXQ2969 (01-2022)
Build Number 01A
LRC

