



Cat[®] CP12 GC

Padfoot Drum Vibratory Soil Compactor

The Cat[®] CP12 GC features a padfoot drum and is ideally suited for cohesive and semi-cohesive soil applications.

Superior Compaction Performance

- High weight at the drum and high amplitude deliver superior compaction performance.

Comfortable and Ergonomic Operator Station

- Simple controls are within reach.
- Outstanding visibility to the front and rear of the machine.

Proven and Exclusive Cat Features

- Includes the ultra-reliable pod-style vibratory system and sealed-for-life hitch bearing.

Reliable Cat Engine

- The Cat engine provides ample power and consistent performance.
- Standard Eco-mode reduces fuel use during normal operation.

Simple Maintenance

- Maintenance-free hitch bearings and extended maintenance intervals for vibratory system and hydraulic system provide more uptime and lower maintenance costs.

Optional Cat Compaction Control Technology

- Compaction control helps the operator determine when compaction has been completed to specification for greater productivity and uniform compaction quality.
- Scalable solutions can be configured to meet customer needs.



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Technical Specifications

Engine - Power Train

Engine Model	Cat C4.4	
Global Emissions	US EPA Tier 3 EU Stage IIIA	
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
Max. Travel Speed (Forward or Reverse)	11 km/h	6.84 mph
Theoretical Gradeability, with or without vibration**	50%	

Vibratory System Specifications

Nominal Amplitude - High	1.8 mm	0.071 in
Frequency at High Idle	30.0 Hz	1800 rpm
Frequency at Eco-Mode	28.6 Hz	1716 rpm
Nominal Amplitude - Low	0.89 mm	0.035 in
Frequency at High Idle	33 Hz	1980 rpm
Frequency at Eco-Mode	31.5 Hz	1890 rpm
Centrifugal Force		
Maximum	249 kN	55,932 lb
Minimum	148 kN	33,249 lb
French Classification, data/class w/ ROPS/FOPS cab	48.8	VM3

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

Weights

Operating Weight w/ Sun Canopy		
w/ Oval Padfoot Shell	12 307 kg	27,132 lb
w/ Square Padfoot Shell	12 339 kg	27,203 lb
Operating Weight w/ ROPS/FOPS Canopy		
w/ Oval Padfoot Shell	12 485 kg	27,524 lb
w/ Square Padfoot Shell	12 517 kg	27,594 lb
Operating Weight w/ ROPS/FOPS Cab***		
w/ Oval Padfoot Shell	12 639 kg	27,863 lb
w/ Square Padfoot Shell	12 671 kg	27,934 lb
Weight at Drum w/ Sun Canopy		
w/ Oval Padfoot Shell	7655 kg	16,877 lb
w/ Square Padfoot Shell	7687 kg	16,947 lb
Weight at Drum w/ ROPS/FOPS Canopy		
w/ Oval Padfoot Shell	7725 kg	17,030 lb
w/ Square Padfoot Shell	7757 kg	17,100 lb
Weight at Drum w/ ROPS/FOPS Cab		
w/ Oval Padfoot Shell	7767 kg	17,123 lb
w/ Square Padfoot Shell	7800 kg	17,195 lb

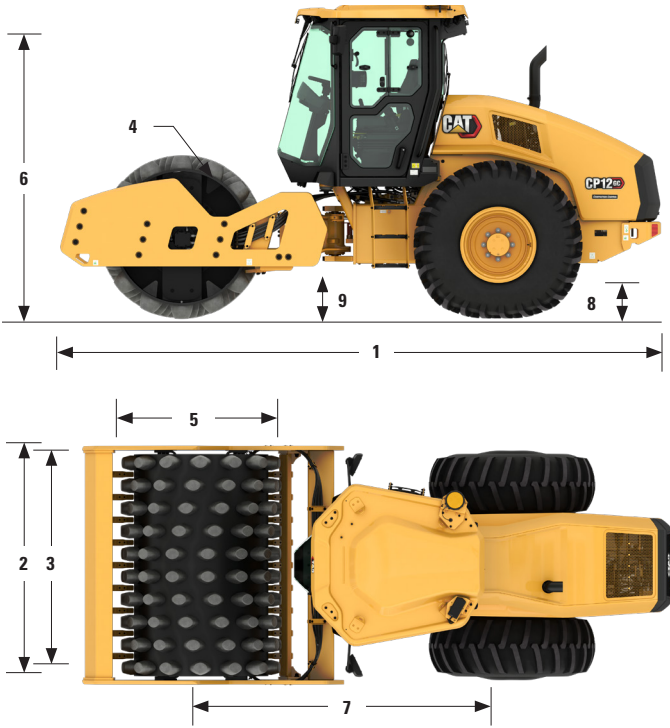
* Net power advertised is the power available at the engine flywheel when equipped with a fan at maximum speed, air cleaner, clean emissions module, and alternator.

** 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, flotation tires, padfoot drum, and cab with 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.

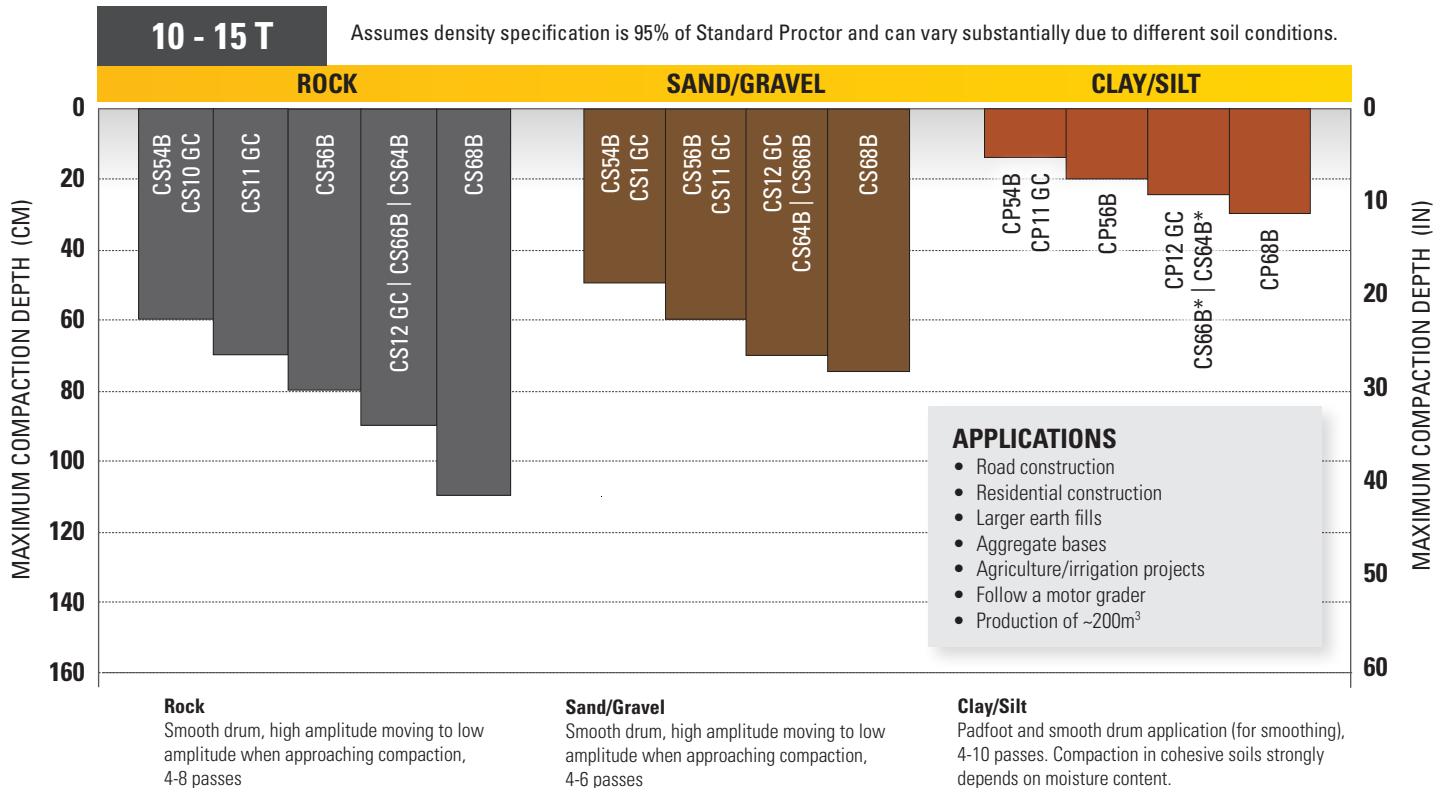
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Dimensions			
1	Overall Length	5.70 m	18.71 ft
2	Overall Width	2.30 m	7.53 ft
3	Drum Width	2134 mm	84 in
4	Drum Shell Thickness	25 mm	0.98 in
5	Drum Diameter (over pads)	1549 mm	60.9 in
6	Overall Height	3.0 m	9.8 ft
7	Wheelbase	3.0 m	9.8 ft
8	Ground Clearance	516 mm	20.3 in
9	Curb Clearance	496 mm	19.5 in
	Inside Turning Radius	3.86 m	12.7 ft
	Hitch Articulation Angle	34°	
	Hitch Oscillation Angle	15°	

Padfoot Specifications			
	Number of Pads	140	
	Pad Height, oval pads	127 mm	5.0 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	

Vibratory Soil Compactor Selection Guide



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

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.

Size: Less than 50 mm (2 in) diameter

* Smooth drum model equipped with padfoot shell kit

Not all models are available in each region. Contact your Cat® dealer representative for more information.

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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			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		✓

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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QEHQ2938-01 (01-2022)
Build Number 01A
LRC

