



Cat® CS10 GC

Vibratory Soil Compactor

Features:

The Cat® CS10 GC features a smooth drum ideal for granular soil applications. A padfoot shell kit is available for cohesive soil applications.

- **Superior compaction performance** due to high weight at the drum and high amplitude.
- **Easy-to-use and comfortable** with simple controls within easy reach. Outstanding visibility to the front and rear of machine.
- **Proven, exclusive, world-class Cat features** including the ultra-reliable pod-style vibratory system; the sealed-for-life, maintenance-free hitch bearing; and optional Cat Compaction Control.
- **Reliable Cat engine** provides ample power and consistent performance. Standard Eco-mode reduces fuel use during normal operation.
- **Simple maintenance** due to maintenance-free hitch bearings and extended maintenance intervals for vibratory system and hydraulic system, providing more uptime and lower maintenance costs.
- **Optional Cat Compaction Control technology** helps the operator determine when compaction has been completed to specification for greater productivity and uniform compaction quality. Scalable solution can be configured to meet needs.

Specifications

Engine - Powertrain

Engine Model	Cat C4.4	
Emissions	US EPA Tier 3/EU Stage IIIA equivalent	
Gross Power - ISO 14396	83 kW	111.3 hp
Net Power - SAE J1349	78.5 kW	105.3 hp
Net Power - ISO 9249	79.4 kW	106.5 hp
Displacement	4.4 L	268.5 in³
Stroke	127 mm	5 in
Bore	105 mm	4.1 in
Max. Travel Speed (Forward or Reverse)	11.2 km/h	6.9 mph
Theoretical Gradeability, no vibration*	55%	

Weights

Operating Weight w/ sun canopy	9471 kg	20,880 lb
Operating Weight w/ sun canopy and additional tire ballast	10 171 kg	22,423 lb
w/ weight kit	+1013 kg	+2,233 lb
w/ oval padfoot shell kit	+1757 kg	+3,874 lb
w/ square padfoot shell kit	+1916 kg	+4,224 lb
w/ padfoot bumper, no shell	+242 kg	+534 lb
Weight at Drum w/ sun canopy	5722 kg	12,615 lb
Weight at Drum w/ sun canopy and additional tire ballast	5722 kg	12,615 lb
w/ weight kit	+1340 kg	+2,954 lb
w/ oval padfoot shell kit	+1637 kg	+3,609 lb
w/ square padfoot shell kit	+1796 kg	+3,960 lb
w/ padfoot bumper, no shell	+121 kg	+267 lb

Vibratory System Specifications

Nominal Amplitude - High	2.0 mm	0.079 in
Standard Frequency	30 Hz	1800 vpm
Eco-mode Frequency	28.6 Hz	1716 vpm
Nominal Amplitude - Low	1.00 mm	0.039 in
Frequency	33 Hz	1980 vpm
Eco-mode Frequency	31.5 Hz	1890 vpm
Centrifugal Force		
Maximum	250 kN	56,200 lb
Minimum	149 kN	33,500 lb
Static Linear Load		
w/ sun canopy	26.8 kg/cm	150.2 lbs/in
w/ sun canopy, additional tire ballast	26.8 kg/cm	150.2 lbs/in
w/ sun canopy, weight kit	33.1 kg/cm	185.4 lbs/in
w/ sun canopy, shell bumper, no shell	27.4 kg/cm	153.4 lbs/in

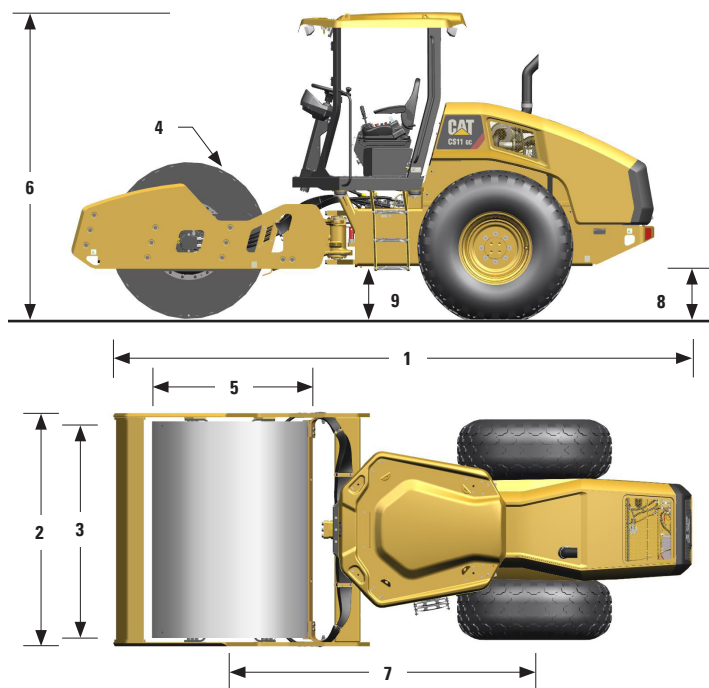
Service Refill Capacities

Fuel Tank (total capacity)	248 L	65.5 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	10.1 L	2.7 gal
Hydraulic Tank (service refill)	23 L	6 gal

* Actual gradeability may vary based on site conditions and machine configuration. Refer to the Operation and Maintenance Manual for more information.



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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	1535 mm	60.4 in
6 Maximum Overall Height	2.99 m	9.8 ft
with Padfoot Shell Kit option	3.09 m	10.1 ft
7 Wheelbase	3.00 m	9.8 ft
8 Ground Clearance	518 mm	20.4 in
9 Curb Clearance	492 mm	19.4 in
Inside Turning Radius	3.86 m	12.7 ft
Hitch Articulation Angle	34°	
Hitch Oscillation Angle	15°	

Optional Padfoot Shell Kit Specifications

Number of Pads	120	
Pad Height, oval pads	90 mm	3.5 in
Pad Face Area, oval pads	63.5 cm ²	9.8 in ²
Pad Height, square pads	90 mm	3.5 in
Pad Face Area, square pads	105.6 cm ²	16.4 in ²
Number of Chevrons	16	

STANDARD EQUIPMENT Varies by market- contact your Dealer for specifics.

ELECTRICAL

- 12-volt Electrical System
- 120-ampere Alternator
- 900 Cold-cranking Amps Battery Capacity

OPERATOR ENVIRONMENT

- Sun Canopy with Platform Handrails/Guardrails
- Vinyl Adjustable Seat, Seat Belt
- Steering Wheel Console with gauges and/or audible warning alarm for: *Hydraulic oil temperature, Engine oil pressure, Engine coolant temperature, Alternator charge, Fuel level, Service hour meter, Engine RPM, Optional Cat Compaction Control*
- Adjustable Tilting Steering Column
- 12-volt Power Outlet
- Floor Mat
- Interior Rear View Mirror
- Horn, Backup Alarm

POWERTRAIN

- Cat® C4.4 Diesel Engine, 4-cylinder
- Propel Pump
- Dual Fuel Filters, Water Separator, Electronic Priming Pump, Water Indicator
- Radiator/Hydraulic Oil Cooler, Charge Air Cooler
- Dual Braking System
- Two-speed Hydrostatic Transmission

VIBRATORY SYSTEM

- Smooth Drum, Adjustable Steel Scraper
- Dual Amplitude, Dual Frequency
- Pod-Style Eccentric Weight System
- Auto-vibe Function

OTHER

- Sight Gauges for Hydraulic Oil Level and Radiator Coolant Level
- Cat ToughGuard™ Hose
- S-O-S™ Sampling Valves, Engine Oil, Hydraulic Oil and Coolant
- Product Link™

OPTIONAL EQUIPMENT

- Padfoot Shell Kit (oval or square pad)
- Rotating Beacon
- Polyurethane Drum Scrapers
- Additional Steel Drum Scraper
- High Ambient Temperature Oil Factory Fill
- Cat Compaction Control, Machine Drive Power or CMV or Both
- SBAS GNSS Mapping for Cat Compaction Control (RTK available)
- Machine-to-Machine Communication for Cat Compaction Control
- Upgraded LED Light Package
- Flotation Tread or Lug Tread Tires
- Transmission Guard
- Side Mounted Rear View Mirrors
- Sound Reduction Kit
- XT Weight Kit
- Additional Tire Ballast
- Sun/Debris Shields

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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