

Cat[®] CS10 GC Smooth Drum Vibratory Soil Compactor

The Cat[®] CS10 GC features a smooth drum and is ideally suited for granular soil applications with the use of an optional padfoot shell kit for 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-forlife 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.



Technical Specifications

Engine - Power Train			
Engine Model	Cat [®] C4.4		
Global Emissions	US EPA Tier 3 EU Stage IIIA Equivalent		
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**		55%	

Vibratory System Specifications				
Nominal Amplitude - High	2.0 mm	0.079 in		
Frequency at High Idle	30.0 Hz	1800 vpm		
Frequency at Eco-Mode	28.6 Hz	1716 vpm		
Nominal Amplitude - Low	1.0 mm	0.039 in		
Frequency at High Idle	33.0 Hz	1980 vpm		
Frequency at Eco-Mode	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	27.1 kg/cm	151.8 lbs/in		
w/ ROPS/FOPS Canopy	27.4 kg/cm	153.6 lbs/in		
w/ ROPS/FOPS Cab	27.6 kg/cm	154.8 lbs/in		
French Classification, data/class w/ ROPS/FOPS Cab	39.1	VM2		

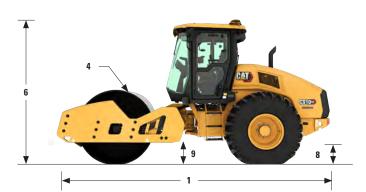
- * Net power advertised is the power available at the engine flywheel when equipped with a fan at maximum speed, air cleaner, clean emissions module, and alternator.
- ** Actual gradeability may vary based on site conditions and machine configuration. Refer to the Operation and Maintenance Manual for more information.
- *** Standard operating weight considers full fuel tank, 75 kg operator, flotation tires, padfoot drum, and cab with A/C.

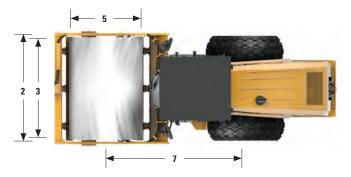
Service Refill Capacities			
Fuel Tank, total capacity	248 L	65.6 gal	
Cooling System	18.5 L	4.9 gal	
Engine Oil w/ Filter	9.5 L	2.5 gal	
Eccentric Weight Housings (combined)	26 L	6.9 gal	
Axle and Final Drives	10 L	2.6 gal	
Hydraulic Tank (service refill)	23 L	6.1 gal	

Weights		
Operating Weight w/ Sun Canopy	10 160 kg	22,400 lb
w/ XT Weight Kit	11 173 kg	24,633 lb
w/ Oval Padfoot Shell Kit	11 842 kg	26,106 lb
w/ Square Padfoot Shell Kit	12 001 kg	26,457 lb
w/ Padfoot Bumper, no shell	10 325 kg	22,762 lb
Operating Weight w/ ROPS/FOPS Canopy	10 338 kg	22,791 lb
w/ XT Weight Kit	11 351 kg	25,025 lb
w/ Oval Padfoot Shell Kit	12 019 kg	26,498 lb
w/ Square Padfoot Shell Kit	12 178 kg	26,849 lb
w/ Padfoot Bumper, no shell	10 502 kg	23,153 lb
Operating Weight w/ ROPS/FOPS Cab	10 492 kg	23,131 lb
w/ XT Weight Kit	11 505 kg	25,364 lb
w/ Oval Padfoot Shell Kit	12 173 kg	26,838 lb
w/ Square Padfoot Shell Kit	12 333 kg	27,188 lb
w/ Padfoot Bumper, no shell	10 656 kg	23,493 lb
Weight at Drum w/ Sun Canopy	5785 kg	12,754 lb
w/ XT Weight Kit	7125 kg	15,708 lb
w/ Oval Padfoot Shell Kit	7413 kg	16,343 lb
w/ Square Padfoot Shell Kit	7572 kg	16,694 lb
w/ Padfoot Bumper, no shell	5896 kg	12,999 lb
Weight at Drum w/ ROPS/FOPS Canopy	5855 kg	12,907 lb
w/ XT Weight Kit	7194 kg	15,861 lb
w/ Oval Padfoot Shell Kit	7483 kg	16,496 lb
w/ Square Padfoot Shell Kit	7642 kg	16,847 lb
w/ Padfoot Bumper, no shell	5966 kg	13,152 lb
Weight at Drum w/ ROPS/FOPS Cab	5897 kg	13,001 lb
w/ XT Weight Kit	7237 kg	15,955 lb
w/ Oval Padfoot Shell Kit	7525 kg	16,591 lb
w/ Square Padfoot Shell Kit	7684 kg	16,941 lb
w/ Padfoot Bumper, no shell	6008 kg	13,246 lb

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 CO^2 equivalent of 3.146 metric tonnes.

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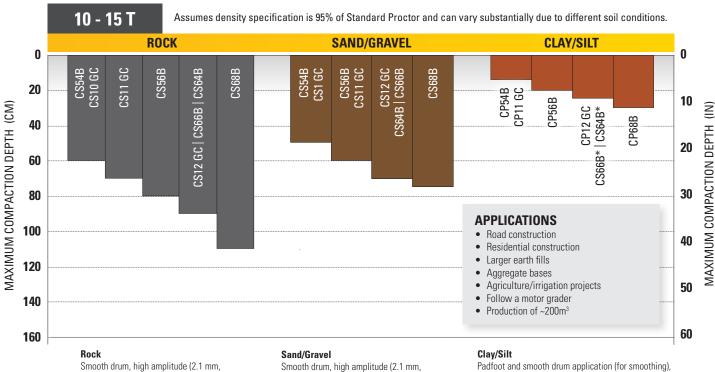




	Dimensions		
1	Overall Length	5.70 m	18.71 ft
2	Overall Width	2.30 m	7.53 ft
3	Drum Width	2134 mm	84 in
4	Drum Shell Thickness	25 mm	0.98 in
5	Drum Diameter	1535 mm	60.4 in
6	Overall Height	3.0 m	9.8 ft
	w/ Padfoot Shell Kit option	3.03 m	9.93 ft
7	Wheelbase	3.0 m	9.8 ft
8	Ground Clearance	518 mm	20.4 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	89.8 mm	3.5 in	
Pad Face Area, oval pads	63.5 cm ²	9.8 in ²	
Pad Height, square pads	89.8 mm	3.5 in	
Pad Face Area, square pads	105.7 cm ²	16.4 in ²	
Number of Chevrons	16		

Vibratory Soil Compactor Selection Guide



Smooth drum, high amplitude (2.1 mm, 0.083 in) moving to low amplitude when approaching compaction, 4-8 passes Smooth drum, high amplitude (2.1 mm, 0.083 in) moving to low amplitude when approaching compaction, 4-6 passes

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

Standard and Optional Equipment

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

	Standard	Optional
OPERATOR ENVIRONMENT		
Sun Canopy with Platform Handrails/ Guardrails, Floor Mat	\checkmark	
Vinyl Adjustable Seat, Seat Belt	\checkmark	
Adjustable Tilting Steering Column	\checkmark	
12-volt Power Outlet	\checkmark	
Horn, Backup Alarm	\checkmark	
Internal Rear View Mirror	\checkmark	
ROPS/FOPS Canopy with Handrails/Guardrails, Floormat		\checkmark
ROPS/FOPS Cab with Climate Control		\checkmark
Rear View Camera with Color Touchscreen Display (Cab)		\checkmark
Sun/Debris Shields (Canopy)		\checkmark
Cab Internal Roll-down Sun Screen (Cab)		\checkmark
Sound Reduction Kit		\checkmark
Sun Visor (Cab)		\checkmark
Vinyl Suspension Seat with Arm Rest		\checkmark
Deluxe High-back Air-ride Seat (Cab)		\checkmark
VIBRATORY SYSTEM		
Smooth Drum	\checkmark	
Dual Amplitude, Dual Frequency	\checkmark	
Pod-Style Eccentric Weight Housings	\checkmark	
Auto-vibe Function	\checkmark	
Rear Adjustable Steel Scraper	\checkmark	
Padfoot Shell Kit (oval or square pads available)		\checkmark
Dual Adjustable Steel Scrapers		\checkmark
Dual Adjustable Polyurethane Scrapers		\checkmark

	Standard	Optional
POWER TRAIN		
Cat C4.4 Diesel Engine, 4 cylinder	\checkmark	
Single Propel Pump	\checkmark	
Dual Fuel Filter, Water Separator, Priming Pump, Water Indicator	\checkmark	
Radiator/Hydraulic Oil Cooler, Charge Air Cooler	\checkmark	
Dual Braking System	\checkmark	
Two-speed Hydrostatic Transmission	\checkmark	
Transmission Guard		\checkmark
TECHNOLOGY SOLUTIONS		
Measure - Machine Drive Power and/or CMV		\checkmark
Map - SBAS GNSS Mapping		\checkmark
Connect - Machine-to-Machine Communication		\checkmark
ELECTRICAL		
12 volt Electrical System	\checkmark	
120 ampere Alternator	\checkmark	
900 Cold-cranking Amps Battery Capacity	\checkmark	
OTHER		
Product Link™	\checkmark	
Sight Gauges for Hydraulic Oil Level and Radiator Coolant Level	\checkmark	
S·O·S™ Sampling Valves: Engine Oil, Hydraulic Oil and Coolant	\checkmark	
High Ambient Temperature Oil Factory Fill		\checkmark
Additional External Rear View Mirror		\checkmark
Upgraded LED Light Package		\checkmark
Amber Rotating Beacon		\checkmark
Lug Tread Tires		\checkmark
XT Weight Kit		\checkmark



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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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