

CS10 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	<u>2</u>	
Service Refill Capacities	<u>2</u>	
<u>Standards</u>	<u>2</u>	
<u>Dimensions</u>	<u>3</u>	
Padfoot Specifications	<u>3</u>	
<u>Drive</u>	<u>4</u>	
<u>Vibration System</u>	<u>4</u>	
Operation Specifications	<u>5</u>	
Standard and Optional Equipment	<u>6</u>	



ENGINE		
Engine Model	Cat [®] C	4.4
Gross Power - ISO 14396:2002	83.0 kW	111.3 hp
Gross Power - SAE J1995:2014	83.8 kW	112.4 hp
Net Power - ISO 9249:2007	79.4 kW	106.5 hp
Net Power - SAE J1349:2011	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 Brazil MAR-1, equivalent to U.S. EPA Tier 3 and 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	65.5 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 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)

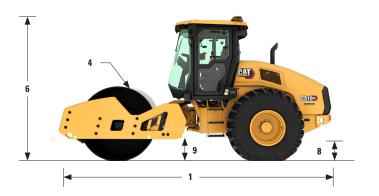
SOUND PERFORMANCE (tested)

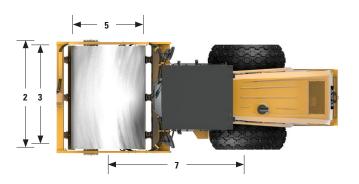
- The declared static operator sound pressure level is measured according to the static test procedures and conditions that are specified in ISO 6394 (interior) and ISO 6393 (exterior). The sound level may vary at different engine and/or cooling fan speeds. The measurement was conducted with the cab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

DIMENSIONS

All dimensions are approximate





1 Overall Length	5.7 m	18.7 ft	
2 Overall Width	2.3 m	7.5 ft	
3 Drum Width	2134 mm	84 in	
4 Drum Shell Thickness	25 mm	1 in	
5 Drum Diameter	1535 mm	60.4 in	
6 Overall Height			
Smooth Drum	3.0 m	9.8 ft	
Optional Shell Kit Equipped	3.0 m	9.9 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	3.9 m	12.7 ft	
Hitch Articulation Angle	34	34°	
Hitch Oscillation Angle	15	15°	

PADFOOT SPECIFICATION - CS10 GC		
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	

DRIVE		
Maximum Travel Speed		
High Idle	11 km/h	6.84 mph
Eco-mode	9.4 km/h	5.84 mph
Maximum 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	5!	5%

- 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		
		0.070 :
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	1.0 mm	0.039 in
Frequency	33 Hz	1980 vpm
Eco-mode Frequency	31.5 Hz	1890 vpm
Centrifugal Force		
Maximum	250 kN	56 202 lbf
Minimum	149 kN	33 497 lbf
w/ Oval Padfoot		
Nominal Amplitude - High	1.41 mm	0.06 in
Standard Frequency	30 Hz	1800 vpm
Eco-mode Frequency	28.6 Hz	1716 vpm
Nominal Amplitude - Low	0.67 mm	0.03 in
Frequency	33 Hz	1980 vpm
Eco-mode Frequency	31.5 Hz	1890 vpm
w/ Square Padfoot		
Nominal Amplitude - High	1.37 mm	0.05 in
Standard Frequency	30 Hz	1800 vpm
Eco-mode Frequency	28.6 Hz	1716 vpm
Nominal Amplitude - Low	0.65 mm	0.03 in
Frequency	33 Hz	1980 vpm
Eco-mode Frequency	31.5 Hz	1890 vpm

OPERATION SPECIFICATION	Sun C	anopy	ROPS/FOI	PS Canopy	ROPS/F	OPS Cab
Operating Weight - Standard	10 160 kg	22,400 lb	10 338kg	22,791 lb	10 492 kg	23,131 lb
At Drum	5785 kg	12,754 lb	5855 kg	12,907 lb	5897 kg	13,001 lb
Static Linear Load	27.1 kg/cm	151.8 lbs/in	27.4 kg/cm	153.6 lbs/in	27.6 kg/cm	154.8 lbs/in
French Classification, data/class						
High Amplitude	38.4	VM2	38.8	VM2	39.1	VM2
Low Amplitude	27.1	VM2	27.4	VM2	27.6	VM2
w/ XT Weight Bumper	11 173 kg	24,633 lb	11 351 kg	25,025 lb	11 505 kg	25,364 lb
At Drum	7125 kg	15,708 lb	7194 kg	15,861 lb	7237 kg	15,955 lb
Static Linear Load	33.4 kg/cm	187.0 lbs/in	33.7 kg/cm	188.8 lbs/in	33.9 kg/cm	189.9 lbs/in
French Classification, data/class						
High Amplitude	47.2	VM3	47.7	VM3	48.0	VM3
Low Amplitude	33.4	VM2	33.7	VM2	33.9	VM2
w/ Oval Shell Kit	11 842 kg	26,106 lb	12 019 kg	26,498 lb	12 173 kg	26,838 lb
At Drum	7413 kg	16,343 lb	7483 kg	16,496 lb	7525 kg	16,591 lb
French Classification, data/class						
High Amplitude	41.2	VM3	41.6	VM3	41.9	VM3
Low Amplitude	28.4	VM2	28.7	VM2	28.9	VM2
w/ Square Shell Kit	12 001 kg	26,457 lb	12 178 kg	26,849 lb	12 333 kg	27,188 lb
At Drum	7572 kg	16,694 lb	7642 kg	16,847 lb	7684 kg	16,941 lb
French Classification, data/class						
High Amplitude	41.5	VM3	41.9	VM3	42.1	VM3
Low Amplitude	28.6	VM2	28.9	VM2	29.0	VM2
w/ Padfoot Bumper, No Shell	10 325 kg	22,762 lb	10 502 kg	23,153 lb	10 656 kg	23,493 lb
At Drum	5896 kg	12,999 lb	5966 kg	13,152 lb	6008 kg	13,246 lb
Static Linear Load	27.6 kg/cm	154.7 lbs/in	28.0 kg/cm	156.5 lbs/in	28.2 kg/cm	157.7 lbs/in
French Classification, data/class						
High Amplitude	39.1	VM2	39.5	VM2	39.8	VM2
Low Amplitude	27.6	VM2	28.0	VM2	28.2	VM2

[•] All operating weights and Static Linear Load 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.

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

	Standard	Optional
POWERTRAIN		
Cat® C4.4 Diesel Engine, 4-cylinder	✓	
Single Propel Pump	✓	
Dual Fuel Filter, Water Separator, Priming Pump, Water Indicator	✓	
Radiator/Hydraulic Oil Cooler, Charge Air Cooler	✓	
Dual Braking System	✓	
Two-Speed Hydrostatic Transmission	✓	
Transmission Guard		✓
TECHNOLOGY SOLUTIONS		
Measure - Machine Drive Power and/or CMV		✓
Map - SBAS GNSS Mapping		\checkmark
Connect - Machine-to-Machine Communication		✓
ELECTRICAL		
12-volt Electrical System	✓	
120 ampere Alternator	✓	
900 Cold-Cranking Amps Battery Capacity	✓	
OTHER		
Product Link™	✓	
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		✓
Additional External Rear View Mirror		✓
Upgraded LED Light Package		✓
Amber Rotating Beacon		✓
Lug Tread Tires		✓
XT Weight Kit		✓



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