



CS10 GC

Vibratory Soil Compactor

Technical Specifications

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

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CS10 GC Vibratory Soil Compactor Specifications

ENGINE

Engine Model	Cat® C3.6	
Gross Power - ISO 14396	90 kW	120.7 hp
Gross Power - SAE J1995	91.7 kW	123 hp
Net Power - ISO 9249	83.7 kW	112.2 hp
Net Power - SAE J1349	82.9 kW	111.2 hp
Displacement	3.6 L	219.7 in ³
Stroke	120 mm	4.7 in
Bore	98 mm	3.9 in

- Cat C3.6 engine meets US EPA Tier 4 Final / EU Stage V emission standards.
- The power ratings apply at an engine speed of 2,000 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 2,000 rpm.
- The gross power advertised is with the fan at maximum speed.

SERVICE REFILL CAPACITIES

Fuel Tank (total capacity)	213 L	56.3 gal
Diesel Exhaust Fluid (DEF) refill capacity	19 L	5.0 gal
Cooling System	18.5 L	4.9 gal
Engine Oil w/ Filter	11.6 L	3.1 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.

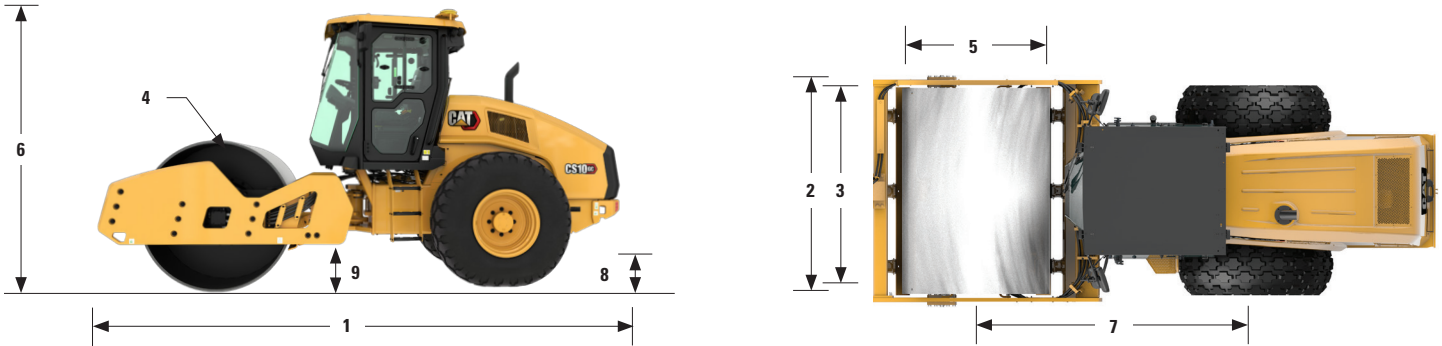
STANDARDS

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

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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	1535 mm	60.4 in
6 Overall Height		
Smooth Drum	3.0 m	9.8 ft
Optional Shell kit equipped	3.0 m	9.8 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°

PADFOOT SPECIFICATION

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	105.6 cm ²	16.4 in ²
Number of Chevrons		16

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DRIVE

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	55%	

- 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	2.0 mm	0.079 in
Eco-mode Frequency	30 Hz	1800 vpm
Nominal Amplitude - Low		
Frequency	28.6 Hz	1716 vpm
Eco-mode Frequency	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		
Standard Frequency	1.41 mm	0.06 in
Eco-mode Frequency	30 Hz	1800 vpm
Nominal Amplitude - Low		
Frequency	28.6 Hz	1716 vpm
Eco-mode Frequency	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		
Standard Frequency	1.37 mm	0.05 in
Eco-mode Frequency	30 Hz	1800 vpm
Nominal Amplitude - Low		
Frequency	28.6 Hz	1716 vpm
Eco-mode Frequency	0.65 mm	0.03 in
Frequency	33 Hz	1980 vpm
Eco-mode Frequency	31.5 Hz	1890 vpm

CS10 GC Vibratory Soil Compactor Specifications

OPERATION SPECIFICATION	ROPS/FOPS Canopy		ROPS/FOPS Cab	
Operating Weight - Standard	10 340kg	22,796 lb	10 494 kg	23,136 lb
At Drum	5830 kg	12,853 lb	5873 kg	12,948 lb
Static Linear Load	27.3 kg/cm	153.0 lbs/in	27.5 kg/cm	154.1 lbs/in
French Classification, data/class				
High Amplitude	38.6	VM2	38.9	VM2
Low Amplitude	27.3	VM2	27.5	VM2
w/ XT weight Bumper	11 353 kg	25,030 lb	11 507 kg	25,369 lb
At Drum	7170 kg	15,807 lb	7213 kg	15,902 lb
Static Linear Load	33.6 kg/cm	188.1 lbs/in	33.8 kg/cm	189.3 lbs/in
French Classification, data/class				
High Amplitude	47.5	VM3	47.8	VM3
Low Amplitude	33.6	VM2	33.8	VM2
w/ Oval Shell Kit	12 022 kg	26,503 lb	12 176 kg	26,843 lb
At Drum	7458 kg	16,442 lb	7501 kg	16,538 lb
French Classification, data/class				
High Amplitude	41.5	VM3	41.7	VM3
Low Amplitude	28.6	VM2	28.8	VM2
w/ Square Shell Kit	12 181 kg	26,854 lb	12 335 kg	27,194 lb
At Drum	7617 kg	16,793 lb	7660 kg	16,888 lb
French Classification, data/class				
High Amplitude	41.8	VM3	42.0	VM3
Low Amplitude	28.8	VM2	28.9	VM2
w/ Padfoot Bumper, No Shell	10 505 kg	23,158 lb	10 659 kg	23,498 lb
At Drum	5 941 kg	13,098 lb	5 984 kg	13,193 lb
Static Linear Load	27.8 kg/cm	155.9 lbs/in	28.0 kg/cm	157.0 lbs/in
French Classification, data/class				
High Amplitude	39.4	VM2	39.7	VM2
Low Amplitude	27.8	VM2	28.0	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.

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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		
ROPS/FOPS Canopy with Handrails/Guardrails, Floor Mat	✓		Cat C3.6 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 Cab with Climate Control		✓	Transmission Guard		✓
Deluxe High-back Air-ride seat (Cab)		✓	ELECTRICAL		
Sun/Debris Shields (Canopy)		✓	12 volt Electrical System	✓	
Cab Internal Roll-down Sun Screen (Cab)		✓	150 ampere Alternator	✓	
Rear View Camera with Color Touchscreen Display		✓	900 Cold-cranking Amps Battery Capacity	✓	
Sound Reduction Kit		✓	OTHER		
VIBRATORY SYSTEM			Product Link™	✓	
Smooth Drum	✓		Sight Gauges for Hydraulic Oil Level and Radiator Coolant Level	✓	
Dual Amplitude, Dual Frequency	✓		S-O-S SM Sampling Valves: Engine Oil, Hydraulic Oil and Coolant	✓	
Pod-Style Eccentric Weight Housings	✓		High Ambient Temperature Oil Factory Fill		✓
Auto-vibe Function	✓		Additional Rear View Mirror		✓
Rear Adjustable Steel Scraper	✓		Printer Port		✓
Padfoot Shell Kit (oval or square pads available)		✓	Seat Belt Switch		✓
Dual Adjustable Steel Scrapers		✓	Upgraded LED Light Package		✓
Dual Adjustable Polyurethane Scrapers		✓	Amber Rotating Beacon		✓
TECHNOLOGY SOLUTIONS			Flotation Tread or Lug Tread Tires		✓
Measure - Machine Drive Power and/or CMV		✓	XT Weight Kit		✓
Map - SBAS GNSS Mapping		✓			
Connect - Cloud and Machine Connectivity		✓			

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QEXQ2865 (07-2021)

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