



# CS11 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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# CS11 GC Vibratory Soil Compactor Specifications

## ENGINE

Engine Model	Cat® C4.4	
Gross Power - ISO 14396	83 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 <sup>3</sup>
Stroke	127 mm	5 in
Bore	105 mm	4.1 in

- Cat C4.4 engine meets US EPA Tier 3/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.

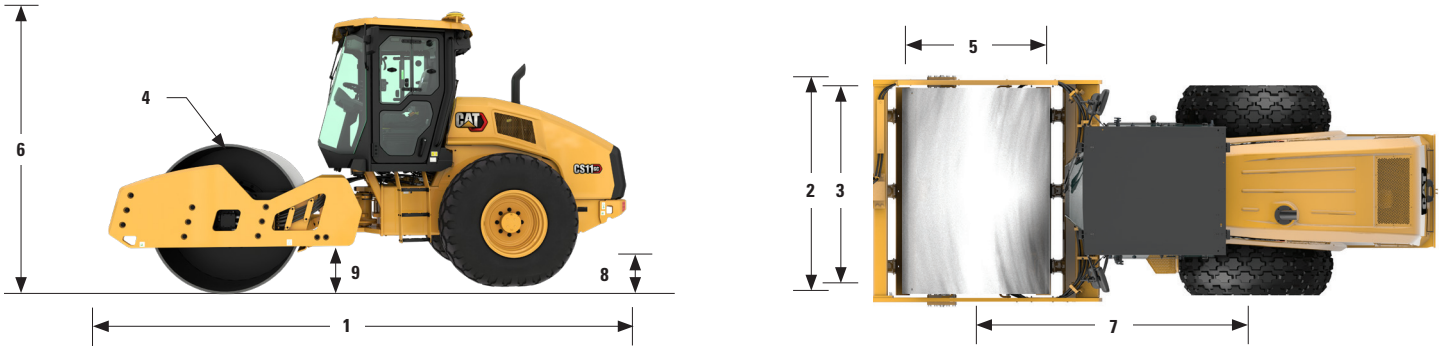
## STANDARDS

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

# CS11 GC Vibratory Soil Compactor Specifications

## 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 m	9.8 ft
Optional Shell kit equipped	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°	34°
Hitch Oscillation Angle	15°	15°

## PADFOOT SPECIFICATION

Number of Pads	120	120
Pad Height, oval pads	89.8 mm	3.5 in
Pad Face Area, oval pads	63.5 cm <sup>2</sup>	9.8 in <sup>2</sup>
Pad Height, square pads	89.8 mm	3.5 in
Pad Face Area, square pads	105.6 cm <sup>2</sup>	16.4 in <sup>2</sup>
Number of Chevrons	16	16

# CS11 GC Vibratory Soil Compactor Specifications

## 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		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

# CS11 GC Vibratory Soil Compactor Specifications

OPERATION SPECIFICATION	Sun Canopy		ROPS/FOPS Canopy		ROPS/FOPS Cab	
<b>Operating Weight - Standard</b>	<b>10 904 kg</b>	<b>24,038 lb</b>	<b>11 081 kg</b>	<b>24,430 lb</b>	<b>11 235 kg</b>	<b>24,769 lb</b>
At Drum	6058 kg	13,354 lb	6127 kg	13,507 lb	6170 kg	13,602 lb
Static Linear Load	28.4 kg/cm	159.0 lb/in	28.7 kg/cm	160.8 lb/in	28.9 kg/cm	161.9 lb/in
French Classification, data/class						
High Amplitude	40.1	VM3	40.6	VM3	40.9	VM3
Low Amplitude	28.4	VM2	28.7	VM2	28.9	VM2
<b>w/ XT Bumper Weight</b>	<b>11 917 kg</b>	<b>26,272 lb</b>	<b>12 095 kg</b>	<b>26,665 lb</b>	<b>12 249 kg</b>	<b>27,004 lb</b>
At Drum	7398 kg	16,310 lb	7467 kg	16,462 lb	7510 kg	16,557 lb
Static Linear Load	34.7 kg/cm	194.1 lb/in	35.0 kg/cm	195.9 lb/in	35.2 kg/cm	197.1 lb/in
French Classification, data/class						
High Amplitude	49.1	VM3	49.5	VM3	49.8	VM3
Low Amplitude	34.7	VM2	35.0	VM2	35.2	VM2
<b>w/ Bolt-on Yoke Weight</b>	<b>11 308 kg</b>	<b>24,930 lb</b>	<b>11 485 kg</b>	<b>25,320 lb</b>	<b>11 639 kg</b>	<b>25,660 lb</b>
At Drum	6306 kg	13,902 lb	6375 kg	14,054 lb	6418 kg	14,149 lb
Static Linear Load	29.6 kg/cm	165.5 lb/in	29.9 kg/cm	167.3 lb/in	30.1 kg/cm	168.4 lb/in
French Classification, data/class						
High Amplitude	41.7	VM3	42.3	VM3	42.6	VM3
Low Amplitude	29.5	VM2	29.9	VM2	30.1	VM2
<b>w/ Bumper and Bolt-on Yoke Weight</b>	<b>12 321 kg</b>	<b>27,163 lb</b>	<b>12 499 kg</b>	<b>27,555 lb</b>	<b>12 653 kg</b>	<b>27,894 lb</b>
At Drum	7646 kg	16,857 lb	7715 kg	17,009 lb	7758 kg	17,104 lb
Static Linear Load	35.8 kg/cm	200.6 lbs/in	36.2 kg/cm	202.5 lb/in	36.4 kg/cm	203.6 lb/in
French Classification, data/class						
High Amplitude	50.7	VM3	51.1	VM3	51.4	VM3
Low Amplitude	35.8	VM2	36.2	VM2	36.4	VM2
<b>w/ Oval Shell Kit</b>	<b>12 585 kg</b>	<b>27,745 lb</b>	<b>12 763 kg</b>	<b>28,137 lb</b>	<b>12 917 kg</b>	<b>28,476 lb</b>
At Drum	7686 kg	16,944 lb	7755 kg	17,097 lb	7798 kg	17,191 lb
French Classification, data/class						
High Amplitude	42.8	VM3	43.2	VM3	43.4	VM3
Low Amplitude	29.5	VM2	29.7	VM2	29.9	VM2
<b>w/ Square Shell Kit</b>	<b>12 744 kg</b>	<b>28,096 lb</b>	<b>12 922 kg</b>	<b>28,487 lb</b>	<b>13 076 kg</b>	<b>28,827 lb</b>
At Drum	7845 kg	17,294 lb	7914 kg	17,447 lb	7957 kg	17,541 lb
French Classification, data/class						
High Amplitude	43.0	VM3	43.4	VM3	43.6	VM3
Low Amplitude	29.6	VM2	29.9	VM2	30.1	VM2
<b>w/ Padfoot Bumper, No Shell</b>	<b>11 068 kg</b>	<b>24,400 lb</b>	<b>11 246 kg</b>	<b>24,792 lb</b>	<b>11 400 kg</b>	<b>25,132 lb</b>
At Drum	6169 kg	13,599 lb	6238 kg	13,752 lb	6281 kg	13,847 lb
Static Linear Load	28.9 kg/cm	161.9 lb/in	29.2 kg/cm	163.7 lb/in	29.4 kg/cm	164.8 lb/in
French Classification, data/class						
High Amplitude	40.9	VM3	41.3	VM3	41.6	VM3
Low Amplitude	28.9	VM2	29.2	VM2	29.4	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.

# CS11 GC Vibratory Soil Compactor Specifications

## Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
<b>OPERATOR ENVIRONMENT</b>			<b>POWER TRAIN</b>		
Sun Canopy with Platform Handrails/ Guardrails, Floor Mat	✓		Cat C4.4 Diesel Engine, 4 cylinder	✓	
Vinyl Adjustable Seat, Seat Belt	✓		Single Propel Pump	✓	
Adjustable Tilting Steering Column	✓		Dual Fuel Filter, Water Separator, Priming Pump, Water Indicator	✓	
12-volt Power Outlet	✓		Radiator/Hydraulic Oil Cooler, Charge Air Cooler	✓	
Horn, Backup Alarm	✓		Dual Braking System	✓	
Internal Rear View Mirror	✓		Two-speed Hydrostatic Transmission	✓	
Rear View Camera with Color Touchscreen Display (Cab)		✓	Transmission Guard		✓
Sun/Debris Shields (Canopy)		✓	<b>TECHNOLOGY SOLUTIONS</b>		
Cab Internal Roll-down Sun Screen (Cab)		✓	Measure - Machine Drive Power and/or CMV		✓
Sound Reduction Kit		✓	Map - SBAS GNSS Mapping		✓
Sun Visor (Cab)		✓	Connect - Machine-to-Machine Communication		✓
Deluxe High-back Air-ride Seat (Cab)		✓	<b>ELECTRICAL</b>		
<b>VIBRATORY SYSTEM</b>			12 volt Electrical System	✓	
Smooth Drum	✓		120 ampere Alternator	✓	
Dual Amplitude, Dual Frequency	✓		900 Cold-cranking Amps Battery Capacity	✓	
Pod-Style Eccentric Weight Housings	✓		<b>OTHER</b>		
Auto-vibe Function	✓		Product Link™	✓	
Rear Adjustable Steel Scraper	✓		Sight Gauges for Hydraulic Oil Level and Radiator Coolant Level	✓	
Padfoot Shell Kit (oval or square pads available)		✓	S-O-S <sup>SM</sup> Sampling Valves: Engine Oil, Hydraulic Oil and Coolant	✓	
Dual Adjustable Steel Scrapers		✓	High Ambient Temperature Oil Factory Fill		✓
Dual Adjustable Polyurethane Scrapers		✓	Upgraded LED Light Package		✓
			Amber Rotating Beacon		✓
			Flotation Tread or Lug Tread Tires		✓
			XT Weight Kit		✓



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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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