

# CS10 GC | CS11 GC | CS12 GC

## VIBRATORY SOIL COMPACTORS



### Engine Power

U.S. EPA Tier 3, EU Stage IIIA Equivalent

83.0 kW (111 hp)

### Compaction Width

2134 mm (84 in)

### Operating Weight (with Cab)

CS10 GC

10 492 kg (23,131 lb)

CS11 GC

11 235 kg (24,769 lb)

CS12 GC

12 653 kg (27,894 lb)

See Technical Specifications for detailed engine emissions information.



# VIBRATORY SOIL COMPACTORS GC-SERIES

EVERYTHING YOU WANT.  
EXACTLY WHAT YOU NEED.

GC-Series Vibratory Soil Compactors deliver dependable, economical production with performance that exceeds expectations. Ready to help you make your business stronger, Cat® GC-Series Vibratory Soil Compactors give you new ways to get the most work done at the lowest cost—so you put more money in your pocket.



## GC-SERIES VIBRATORY SOIL COMPACTORS

Cat GC-Series Vibratory Soil Compactors provide the production you need from the 10-12 metric tonne class while still offering the kind of dependability, versatility and serviceability you have come to expect from Caterpillar:

- + CLASS-LEADING VIBRATORY SYSTEM PERFORMANCE
- + EXCEPTIONAL COMFORT, EASE OF USE
- + CAT EXCLUSIVE TECHNOLOGY



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## SIMPLE TO OPERATE

The GC-Series feature an easy to use interface for the operator with excellent visibility to the ground, and an auto-vibe function providing dependable compaction.

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## LOW OPERATION COSTS

Experience up to 18% fuel savings with eco-mode\* and benefit from extended maintenance intervals. Enjoy the sealed-for-life maintenance-free hitch.

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## ENHANCED COMPACTION

Improve compaction with increased amplitude and static linear load, upgrade with flexible XT weight kits, and choose from scalable compaction technologies.

\* Compared to using high engine idle. Data may vary based on specific model.

# OPERATOR COMFORT

## COMFORTABLE AND ERGONOMIC

### SIMPLE CONTROL

- One button, 2-setting vibration control switch
- Propel and safety controls grouped for easy access on operator's right side
- Auto-vibe function to automatically start and stop vibration based on propel lever position
- Configurable LED digital readout

### EXCELLENT VISIBILITY

- Internal and external mirrors for broad view of the jobsite
- Optional rear vision camera provides a wide view behind the machine for better visibility
- Upgraded LED lighting for super night time illumination





## EXCELLENT VISIBILITY

Internal and external mirrors provide a broad view of the jobsite. Optional rear vision camera enhances operation and safety.



## OPERATE IN COMFORT

Tilting steering column and adjustable seat reduce fatigue while the ISO-mounted operator station and rubber floormats dampen noise and vibrations, providing comfort during operation.



## SMOOTH DRUM

GC-Series vibratory soil compactors are available with smooth drums. Two piece padfoot shell kit options are available to maximize versatility.



## ERGONOMIC ENTRY/EXIT

Large station entry provides outstanding accessibility featuring angled steps, convenient right and left handrails, and antiskid entrance surface.



## FUEL EFFICIENCY SAVINGS ADD UP



**USING ECO-MODE LOWERS FUEL CONSUMPTION**

### THE ADVANTAGE

USE UP TO

**18%**

LESS FUEL PER YEAR

NOTE: COMPARED TO OPERATING USING HIGH ENGINE IDLE. DATA MAY VARY BASED ON SPECIFIC APPLICATION, MODEL, AND CONFIGURATION.

## POWERFUL ENGINE

### MEETS EMISSIONS STANDARDS

The Cat C4.4 engine meets U.S. EPA Tier 3 and EU Stage IIIA equivalent emissions standards. This engine is reliable, quiet, and has durable power for vibratory soil compactor applications.

**55%** THEORETICAL GRADEABILITY

CS10 GC | CS11 GC

**50%** THEORETICAL GRADEABILITY

CS12 GC

# SIMPLE DESIGN EXCEPTIONAL RESULTS



## REACH HIGHER WITH THE GC-SERIES

- + One-button switches between working and travel speed ranges
- + Limited slip differential axle
- + Traction tire options
- + Climbing ability that exceeds expectations

## POD-STYLE VIBRATORY SYSTEM

Exclusive Caterpillar pod-style eccentric weights offer an industry best 3 year, 3000 hour maintenance interval and keep you running longer between services.

## AMPLITUDE AND STATIC LINEAR LOAD

High amplitudes and increased static linear loads help to ensure the GC-Series can meet your compaction needs.

## FLEXIBLE WEIGHT KITS

Flexibilty is designed in. Optional XT weight kits upgrade the CS10 GC and CS11 GC models to a heavier class, allowing them to work on a wider range of jobsites and lift thicknesses.

GC-SERIES

# ENHANCED COMPACTION



# CAT® COMPACT TECHNOLOGY

SCALABLE TO MEET YOUR NEEDS



Cat COMPACT is a suite of technologies that help operators compact to specification with greater consistency, uniformity and efficiency than is possible using human intuition alone. Cat COMPACT technology is easy-to-use, versatile and scalable, allowing you to customize your solution to meet your needs, now and in the future.



## MACHINE DRIVE POWER (MDP)

Measures energy required to overcome rolling resistance to indicate soil stiffness. MDP works with vibratory system on or off. It measures 30-60 cm deep—about the depth of a typical lift and works on all soil types, granular and cohesive.



## COMPACTION METER VALUE (CMV)

Utilizes a drum-mounted accelerometer to provide indications of soil stiffness of multiple aggregate base and sub-base layers, up to 1.2 m deep. It can indicate issues with the road structure or help the operator determine the status of the work. For granular applications only.



## GNSS MAPPING

Correlates compaction data with satellite location coordinates (GPS) to provide real-time maps that can help the operator visualize progress of the work. The data can be mined to find hidden efficiencies that can contribute to greater profit, or used to document work for QA/QC purposes. SBAS or RTK available depending on positional accuracy desired.



## MACHINE-TO-MACHINE COMMUNICATION

Helps keep rolling patterns in sync by sharing mapped data such as MDP, CMV, coverage area and pass-count maps between the displays of multiple machines.



## EASY-ACCESS MAINTENANCE

Conducting daily inspections will help keep your machine running day in and day out. That's why we focused on making those inspections as easy as possible. Daily check points are grouped, with key components within easy reach from the ground. The durable one-piece hood tilts forward quickly and easily for exceptional access to the engine and cooling system. S.O.S.<sup>SM</sup> ports are provided to make oil sampling simple and quick. Of course the most convenient and least costly service of all is that which can be avoided. That's why the GC-Series vibratory soil compactors feature long service intervals and no-maintenance components like the articulation hitch and battery.

### EXTENDED MAINTENANCE INTERVALS

Industry-leading maintenance intervals keep you working longer between scheduled services.

- 12,000 hr coolant change
- 3,000 hr hydraulic oil change
- 3,000 hr vibration bearing oil check
- 500 hr engine oil and filter

### MAINTENANCE-FREE HITCH

Just like on other Cat vibratory soil compactors you've known over the years, the GC-Series features a maintenance-free hitch that requires no greasing.

# CAT LINK TECHNOLOGY

## TAKES THE GUESSWORK OUT OF MANAGING YOUR EQUIPMENT

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**CAT LINK** telematics helps take the complexity out of managing your equipment and job sites by gathering data generated from your machines, materials, and people – delivering it to you in customizable formats.



### **CAT PRODUCT LINK™**

The ProductLink™ system tracks location and hours of use of the machine. The system streamlines diagnostic efforts, maintenance scheduling, and costs by providing communication of hours and location information between dealer and customer.

### **VISIONLINK®**

Access product data anytime, anywhere with VisionLink® and use it to make informed decisions that boost productivity, lower costs, simplify maintenance, and improve safety and security on your job site. With different subscription level options, your Cat dealer can help you configure exactly what you need to connect your fleet and manage your business, without paying for extras you don't want. Subscriptions are available for cellular and/or satellite-based reporting.



### **MACHINE DATA AT YOUR FINGERTIPS**

The Cat App delivers machine data to your smartphone or tablet, so you can check in on your equipment from the field, the office or anywhere in between. And when it's paired with other Cat Equipment Management tools, the Cat App makes it even easier to make smart decisions and be in control of your business.

# EXPAND PERFORMANCE WITH OPTIONS TO INCREASE PRODUCTIVITY

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Cat drum and operator station options improve performance, safety, and stability designed to fit the weight and horsepower of the GC-Series Vibratory Soil Compactors.

## SHELL KIT OPTION

Oval-faced pad design produces superior thick-lift compaction results by penetrating deeper into the lift. The tapered design introduces horizontal compaction force and inhibits material accumulation between pads.

Square-faced pad design produces good thin-lift compaction results and provides best surface sealing.

Cat padfoot shell halves are universal and work on 2134 mm (84 inch) drum B-Series and GC-Series machines.



NOTE: Bumper and scraper design is different between the B-Series and GC-Series.  
Please consult your Caterpillar Dealer for more information.

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## OPTIONAL XT WEIGHT KIT FOR FIELD INSTALL

Kits add additional weight that upgrades the CS10 GC to over 11 metric tonnes and the CS11 GC to over 12 metric tonnes.

The additional weight also brings higher static linear loads, allowing the machines to work in a wider range of applications and lift thicknesses. These options give flexible machine weights for governmental tenders and rental fleets.



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## OPERATOR STATION OPTIONS

ISO mounted sun canopy, ROPS/FOPS canopy, and ROPS/FOPS cab satisfy customer demand comfortably. Upgrade your canopy machine with an aftermarket cab kit to increase operator comfort or meet changing requirements.

SUN CANOPY



ROPS/FOPS CANOPY



ROPS/FOPS CAB



# STANDARD & OPTIONAL EQUIPMENT

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

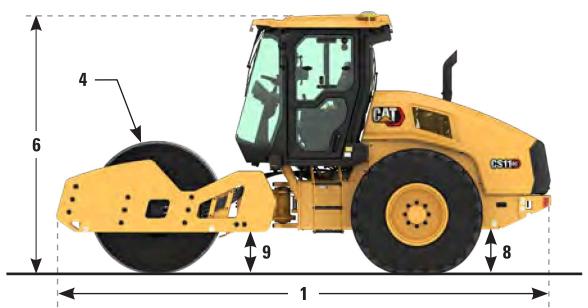
OPERATOR ENVIRONMENT	STANDARD	OPTIONAL	POWERTRAIN	STANDARD	OPTIONAL
Sun Canopy with Platform Handrails/Guardrails, Floor Mat	●		Cat® C4.4 Diesel Engine, 4 cylinder	●	
Vinyl Adjustable Seat, Seat Belt	●		Eco-mode	●	
Adjustable Tilting Steering Column	●		Single Propel Pump	●	
12-volt Power Outlet	●		Fuel Filter, Water Separator, Priming Pump, Water Indicator	●	
Horn, Backup Alarm	●		Radiator/Hydraulic Oil Cooler	●	
Internal Rear View Mirror	●		Dual Braking System	●	
Cab Internal Roll-down Sun Screen (Cab)		○	Two-speed Hydrostatic Transmission	●	
ROPS/FOPS Cab with Climate Control and External Rear View Mirrors		○	Transmission Guard		○
Deluxe High-back Air-ride seat (Cab)		○			
Sun/Debris Shields (Canopy)		○			
Additional Mirror Options		○			
Rear View Camera with Color Touchscreen Display		○			
Sound Reduction Kit		○			
VIBRATORY SYSTEM	STANDARD	OPTIONAL	ELECTRICAL	STANDARD	OPTIONAL
Smooth Drum	●		12 volt Electrical System	●	
Dual Amplitude, Dual Frequency	●		120 ampere Alternator	●	
Pod-Style Eccentric Weight Housings	●		900 Cold-cranking Amps Battery Capacity	●	
Auto-vibe Function	●				
Rear Adjustable Steel Scraper	●				
Padfoot Shell Kit (oval or square pads)		○			
Dual Adjustable Steel Scrapers		○			
Dual Adjustable Polyurethane Scrapers		○			
OTHER	STANDARD	OPTIONAL			
Product Link™	●				
Sight Gauges for Hydraulic Oil Level and Radiator Coolant Level	●				
S-O-S™ Sampling Valves: Engine Oil, Hydraulic Oil and Coolant	●				
Upgraded LED Light Package		○			
Amber Rotating Beacon		○			
Flotation Tread or Lug Tread Tires		○			
XT Weight Kit		○			

# TECHNICAL SPECIFICATIONS

ENGINE		VIBRATORY SYSTEM	
Engine Model	Cat C4.4	Nominal Amplitude - High	2.0 mm 0.079 in
Emissions	US EPA Tier 3 EU Stage IIIA Equivalent	Frequency at High Idle	30.0 Hz 1800 vpm
Gross Power ISO 14396	83.0 kW 111.3 hp	Frequency at Eco-Mode	28.6 Hz 1716 vpm
Gross Power SAE J1995	83.8 kW 112.4 hp	Nominal Amplitude - Low	1.0 mm 0.039 in
Net Power ISO 9249*	79.4 kW 106.5 hp	Frequency at High Idle	33 Hz 1980 vpm
Net Power SAE J1349*	78.5 kW 105.3 hp	Frequency at Eco-Mode	31.5 Hz 1890 vpm
Displacement	4.4 L 268.5 in <sup>3</sup>	Centrifugal Force	
Stroke	127 mm 4.1 in	Maximum	250 kN 56,200 lb
Bore	105 mm 4.1 in	Minimum	149 kN 33,500 lb
Max. Travel Speed (Forward or Reverse)	11.0 km/h 6.84 mph	Static Linear Load with Sun Canopy	
Theoretical Gradeability, with or without vibration**		CS10 GC	27.1 kg/cm 151.8 lb/in
CS10 GC	55%	CS11 GC	28.4 kg/cm 159.0 lb/in
CS11 GC	55%	CS12 GC	35.8 kg/cm 200.6 lb/in
CS12 GC	50%	Static Linear Load with ROPS/FOPS Canopy	
* 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.		CS10 GC	27.4 kg/cm 153.6 lb/in
** Actual gradeability may vary based on site conditions and machine configuration. Refer to the Operation and Maintenance Manual for more information.		CS11 GC	28.7 kg/cm 160.8 lb/in
		CS12 GC	36.2 kg/cm 202.5 lb/in
MACHINE WEIGHT		Static Linear Load with ROPS/FOPS Cab	
Operating Weight with Sun Canopy		CS10 GC	27.6 kg/cm 154.8 lb/in
CS10 GC	10 160 kg 22,400 lb	CS11 GC	28.9 kg/cm 161.9 lb/in
CS11 GC	10 904 kg 24,038 lb	CS12 GC	36.4 kg/cm 203.6 lb/in
CS12 GC	12 321 kg 27,163 lb	French Classification, Data/Class with ROPS/FOPS Cab	
Operating Weight with ROPS/FOPS Canopy		CS10 GC	39.1 VM2
CS10 GC	10 338 kg 22,791 lb	CS11 GC	40.9 VM3
CS11 GC	11 081 kg 24,430 lb	CS12 GC	51.4 VM3
CS12 GC	12 499 kg 27,555 lb		
Operating Weight with ROPS/FOPS Cab			
CS10 GC	10 492 kg 23,131 lb		
CS11 GC	11 235 kg 24,769 lb		
CS12 GC	12 653 kg 27,894 lb		
Weight at Drum with Sun Canopy			
CS10 GC	5785 kg 12,754 lb		
CS11 GC	6058 kg 13,354 lb		
CS12 GC	7646 kg 16,857 lb		
Weight at Drum with ROPS/FOPS Canopy			
CS10 GC	5855 kg 12,907 lb		
CS11 GC	6127 kg 13,507 lb		
CS12 GC	7715 kg 17,009 lb		
Weight at Drum with ROPS/FOPS Cab			
CS10 GC	5897 kg 13,001 lb		
CS11 GC	6170 kg 13,602 lb		
CS12 GC	7758 kg 17,104 lb		
SERVICE REFILL CAPACITIES			
Fuel Tank (total capacity)		248 L 65.6 gal	
Cooling System		18.5 L 4.9 gal	
Engine Oil with 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	

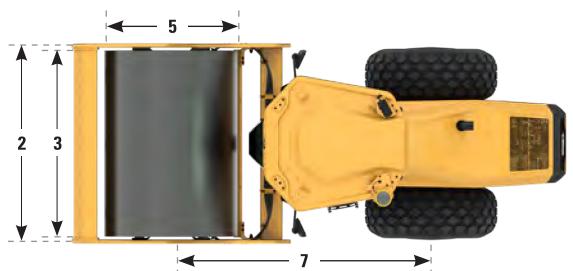
### SMOOTH DRUM DIMENSIONS

<b>1</b> Overall Length	5.70 m 18.71 ft
<b>2</b> Overall Width	2.30 m 7.53 ft
<b>3</b> Drum Width	2134 mm 84 in
<b>4</b> Drum Shell Thickness	25 mm 0.98 in
<b>5</b> Drum Diameter	1535 mm 60.4 in
<b>6</b> Overall Height with Padfoot Shell Kit option	3.0 m 9.8 ft 3.03 m 9.93 ft
<b>7</b> Wheelbase	3.0 m 9.8 ft
<b>8</b> Ground Clearance	518 mm 20.4 in
<b>9</b> 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 <sup>2</sup> 9.8 in <sup>2</sup>
Pad Height (optional square pads)	89.8 mm 3.5 in
Pad Face Area (optional square pads)	105.7 cm <sup>2</sup> 16.4 in <sup>2</sup>
Number of Chevrons	16





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