

VIBRATORY SOIL COMPACTORS

CS10 GC | CS11 GC | CS12 GC



CAT[®]

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

Ready to help you make your business stronger, Cat 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

EVERYTHING YOU WANT.
EXACTLY WHAT YOU NEED.

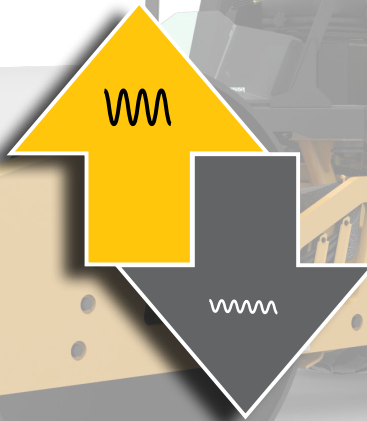
GC-Series Vibratory Soil Compactors deliver dependable, economical production with performance that exceeds expectations.

SIMPLE OPERATION LEADS TO EFFICIENT PRODUCTION

The operator can configure the vibratory system to match the application by simply selecting one of two options on a toggle switch. Performance can then be fine tuned by adjusting ground speed.

HIGH AMPLITUDE LOW FREQUENCY

Select this for maximum gain in density, thicker lifts and soft sub-base



LOW AMPLITUDE HIGH FREQUENCY

Select this for thinner lifts, when compacting on top of a stiffer base or sub-base



VIBRATORY SYSTEM

- Exclusive Cat pod-style eccentric weights are smooth and quiet
- 3 year/3000 hour service interval on vibratory system helps maximize uptime and limit maintenance costs
- Simple operation
- Auto-vibe function helps optimize uniformity
- World-class maximum amplitude and high static linear load provides exceptional compaction performance



VISIBILITY AND COMFORT ENHANCES SAFETY AND PRODUCTION

COMFORT IS A KEY

Comfort has a big effect on your bottom line. Comfortable seats and ergonomic design keep your operator alert and in control, enhancing efficiency and production while promoting safe operation.



KEEP MOVING FORWARD...

Visibility is critical for uniform coverage. The operator has excellent views to the drum edges and front of the machine.

...EVEN IN REVERSE

Large mirrors give wide views to the rear and tire edges. The operator also has unobstructed views directly to the tire edges. The GC-Series offers unrivaled visibility around the machine.



CHOICES

WHICH COMPACTOR IS RIGHT FOR YOU?

GC-SERIES or B-SERIES VIBRATORY SOIL COMPACTORS

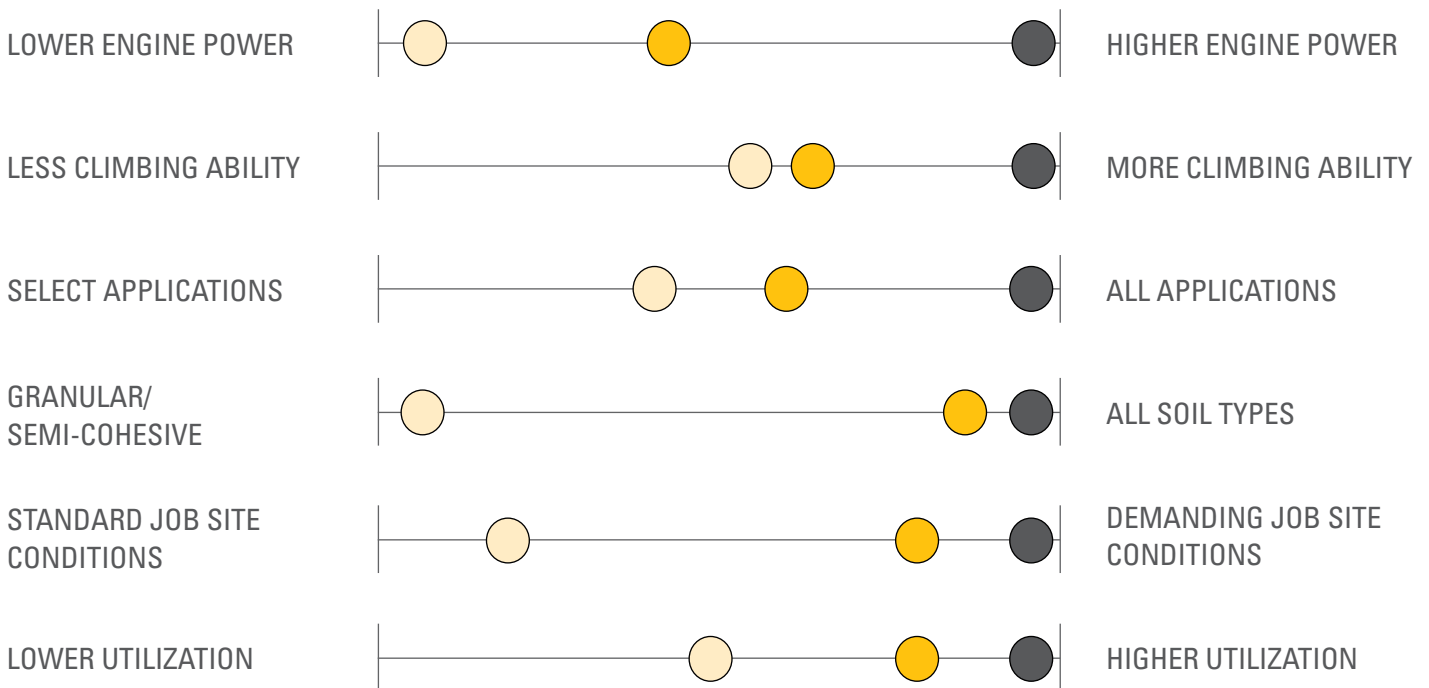
Cat® gives you choices for the 10-12 metric tonne class to ensure that the machine you buy fits the application and need for your business.



○ CS11 GC

● CS54B

● CS56B



	CS11 GC	CS54B	CS56B
LEVELING BLADE	–	–	X
PADFOOT SHELL KIT	X	X	X
PURPOSE-BUILT PADFOOT	–	CP54B	CP56B
CAT COMPACTION CONTROL	X	X	X

SCALABLE TO MEET YOUR NEEDS

CAT COMPACTION CONTROL

IS HERE TO ASSIST

Cat Compaction Control 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 Compaction Control 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. It 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.

TECHNICAL SPECIFICATIONS

	CS10 GC			CS11 GC			CS12 GC		
ENGINE									
Gross Power - ISO 14396	83 kW	112.9 mhp	111.3 hp	83 kW	112.9 mhp	111.3 hp	83 kW	112.9 mhp	111.3 hp
Net Power - SAE J1349	78.5 kW	106.7 mhp	105.3 hp	78.5 kW	106.7 mhp	105.3 hp	78.5 kW	106.7 mhp	105.3 hp
Net Power - ISO 9249	79.4 kW	108 mhp	106.5 hp	79.4 kW	108 mhp	106.5 hp	79.4 kW	108 mhp	106.5 hp
Max. Travel Speed - Forward/Reverse	11.2 km/h		6.9 mph	11.2 km/h		6.9 mph	11.2 km/h		6.9 mph
Theoretical Gradeability no vibration*	55%			55%			50%		

MACHINE WEIGHT									
Operating Weight – Sun Canopy	9471 kg	20,880 lb	10 803 kg	23,817 lb	12 230 kg	26,963 lb			
- with Weight Kit option	10 484 kg	23,113 lb	12 230 kg	26,963 lb	–	–			
- with Oval Padfoot Shell Kit option	11 228 kg	24,754 lb	12 561 kg	27,692 lb	12 976 kg	28,607 lb			
- with Square Padfoot Shell Kit option	11 387 kg	25,104 lb	12 720 kg	28,043 lb	13 135 kg	28,958 lb			
- with Padfoot Bumper, no shell	9713 kg	21,414 lb	11 045 kg	24,350 lb	11 460 kg	25,265 lb			
Weight at Drum – Sun Canopy	5722 kg	12,615 lb	5988 kg	13,201 lb	7582 kg	16,716 lb			
- with Weight Kit option	7062 kg	15,569 lb	7582 kg	16,716 lb	–	–			
- with Oval Padfoot Shell Kit option	7359 kg	16,224 lb	7624 kg	16,808 lb	7879 kg	17,370 lb			
- with Square Padfoot Shell Kit option	7518 kg	16,574 lb	7783 kg	17,159 lb	8038 kg	17,721 lb			
- with Padfoot Bumper, no shell	5843 kg	12,882 lb	6109 kg	13,468 lb	6363 kg	14,028 lb			
Static Linear Load – Sun Canopy	26.8 kg/cm	150.2 lb/in	28.1 kg/cm	157.4 lb/in	35.5 kg/cm	198.8 lb/in			
- with weight kit option	33.1 kg/cm	185.4 lb/in	35.5 kg/cm	198.8 lb/in	–	–			
- with shell bumper, no shell	27.4 kg/cm	153.4 lb/in	28.6 kg/cm	160.2 lb/in	29.8 kg/cm	166.7 lb/in			

DIMENSIONS									
Overall Length	5.70 m	18.71 ft	5.70 m	18.71 ft	5.70 m	18.71 ft			
Overall Width	2.30 m	7.53 ft	2.30 m	7.53 ft	2.30 m	7.53 ft			
Height	2.99 m	9.8 ft	2.99 m	9.8 ft	2.99 m	9.8 ft			
Compaction Width	2134 mm	84 in	2134 mm	84 in	2134 mm	84 in			
Drum Shell Thickness	25 mm	0.98 in	25 mm	0.98 in	25 mm	0.98 in			
Drum Diameter	1535 mm	60.4 in	1535 mm	60.4 in	1535 mm	60.4 in			
Wheelbase	3.00 m	9.8 ft	3.00 m	9.8 ft	3.00 m	9.8 ft			
Ground Clearance	518 mm	20.4 ft	518 mm	20.4 ft	518 mm	20.4 ft			
Curb Clearance	492 mm	19.4 ft	492 mm	19.4 ft	492 mm	19.4 ft			
Inside Turning Radius	3.86 m	12.7 ft	3.86 m	12.7 ft	3.86 m	12.7 ft			
Hitch Articulation Angle		34°		34°		34°			
Hitch Oscillation Angle		15°		15°		15°			

VIBRATORY SPECIFICATIONS									
High Amplitude Setting	2.0 mm	0.079 in	2.0 mm	0.079 in	2.0 mm	0.079 in			
Standard Frequency	30 Hz	1800 vpm	30 Hz	1800 vpm	30 Hz	1800 vpm			
Eco-mode Frequency	28.6 Hz	1716 vpm	28.6 Hz	1716 vpm	28.6 Hz	1716 vpm			
Low Amplitude Setting	1.0 mm	0.039 in	1.0 mm	0.039 in	1.0 mm	0.039 in			
Standard Frequency	33 Hz	1980 vpm	33 Hz	1980 vpm	33 Hz	1980 vpm			
Eco-mode Frequency	31.5 Hz	1890 vpm	31.5 Hz	1890 vpm	31.5 Hz	1890 vpm			
Centrifugal Force – Maximum	250 kN	56,200 lbf	250 kN	56,200 lbf	250 kN	56,200 lbf			
Centrifugal Force – Minimum	149 kN	33,500 lbf	149 kN	33,500 lbf	149 kN	33,500 lbf			

MISCELLANEOUS									
Fuel Tank Capacity	248 L	65.5 gal	248 L	65.5 gal	248 L	65.5 gal			
Electrical System	12-volt			12-volt			12-volt		

* Performance may vary based on site conditions and machine configuration.

SERVICE AND SUPPORT

BACKING YOU EVERY DAY

Buy from Caterpillar and you're buying more than just a piece of equipment. You're also buying into a service and support operation that no competitor can match. Every Cat dealer knows that all you care about is your machine being there when you need to use it; downtime is not an option. That's why we have the industry's best and most reliable dealer network, bringing you the tools, technologies and know-how to keep your machine productive and efficient.

CAT FINANCIAL

Cat® Financial is structured to meet your needs. Because we understand your industry, we can offer better approval rates, more flexible terms and payments, and solutions that suit you and your business.

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For more complete information on Cat products, dealer services and industry solutions, visit us on the web at www.cat.com

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