VIBRATORY SOIL COMPACTORS

10-13 T GC PRODUCT LINE

Engine Power	
Brazil MAR-1, equivalent to U.S. EPA Tier 3, EU Stage IIIA	83 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)
CS13 GC	12 653 kg (27,895 lb)
CP11 GC	11 387 kg (25,104 lb)
CP13 GC	12 639 kg (27,863 lb)

See Technical Specifications for detailed engine emissions information.

CAT®

CAT® GC

VIBRATORY SOIL COMPACTORS

The Cat® GC Vibratory Soil Compactors bring a balance of easy operation, low operating costs and performance-boosting technology to the jobsite.

PRODUCTIVE AND EFFICIENT

Cat® GC Vibratory Soil Compactors can provide the production you need from the 10-13 metric tonne class while still offering the kind of dependability, versatility and serviceability you have come to expect from Caterpillar:

+ TECHNOLOGY AND VIBRATORY SYSTEMS DESIGNED TO HELP YOU ACHIEVE DENSITY TARGETS
+ COMFORTABLE OPERATOR STATION WITH SIMPLE CONTROLS
+ GROUND-LEVEL SERVICE ACCESS

SIMPLE TO OPERATE

GC Vibratory Soil Compactors feature an easy-to-use operator interface and excellent visibility to the ground and drum edges. An auto-vibe function helps operators maintain consistency.

LOW OPERATING COSTS

Eco-Mode, extended service intervals and a hitch with sealed-for-life bearings that do not require routine maintenance help keep your operating and maintenance costs low.

EXCELLENT COMPACTION PERFORMANCE

Compaction technology along with machine features and drum options help you achieve target density in a wide variety of applications.

COMFORTABLE AND ERGONOMIC
OPERATION

SIMPLE CONTROL

+ One button, 2-setting vibration control switch
+ Propel and safety controls are grouped for easy access on the operator's right side
+ The Auto-vibe function automatically starts and stops vibration based on propel lever position
+ Configurable LED digital display readout

OPERATOR STATION

+ Upgrade from the standard equipped ROPS/FOPS sun canopy and adjustable vinyl seat to a ROPS/FOPS canopy with vinyl suspension seat or a climate-controlled ROPS/FOPS cab with a deluxe high back air-ride cloth seat
+ Dedicated storage areas and cup holder help keep items secure during operation

EXCELLENT VISIBILITY

Internal and external mirrors provide a broad view of the job site and an optional rear vision camera assists operation and safety. Upgrade to LED lighting for enhanced night time illumination.

ALL-DAY COMFORT

The seat, armrest and steering column are adjustable and the ISO-mounted operator station and rubber floormats help reduce noise and vibrations to increase comfort during operation.

DRUM OPTIONS

GC Vibratory Soil Compactors are available with smooth or padfoot drums. Two piece padfoot shell kit options are available on smooth drum models to maximize versatility.

ERGONOMIC ENTRY/EXIT

The spacious operator station entry provides accessibility with angled steps, convenient right and left handrails, and an anti-skid entrance surface.

POWER
WHEN YOU NEED IT

Powered by a Cat engine with a reliable propel system, the Cat GC Vibratory Soil Compactors are ready to work when you are.

CAT ENGINE

The Cat C4.4 engine meets Brazil MAR-1, equivalent to U.S. EPA Tier 3 and EU Stage IIIA equivalent emission standards. This engine is reliable and quiet, delivering power for a variety of compaction applications.

ECO-MODE

For operating conditions that do not require full engine speed, operators can engage Eco-mode to help reduce fuel consumption. When full engine power is needed, the operator can switch to high idle.

PROPEL SYSTEM

The propel system is driven by a single pump design and is ideal for flat to moderate grades. The limited slip differential axle combined with optional traction tires boosts tractive effort. Single-button selection allows operators to easily switch between working and travel speeds.

TRACTION CONTROL

An optional Traction Control system helps improve traction in soft underfoot conditions such as sand or loose material. Depending on conditions being experienced, an operator can simply change which mode the machine is in by turning the propel mode selection switch.

POD-STYLE VIBRATORY SYSTEM

Exclusive Caterpillar pod-style eccentric weights are designed to provide high reliability, smooth performance and low noise levels with a 3-year/3000-hour vibratory bearing oil change interval.

AMPLITUDE AND STATIC LINEAR LOAD

High static linear loads and amplitudes provide the compactive effort you need to get the job done.

MINIMIZE VIBRATIONS WITH MICROVIBE™

MicroVibe™ is an optional drum configuration available on the CS10 GC, CS11 GC and CS13 GC that provides a lower range of amplitude than the standard drum for vibration-sensitive applications.

EXPAND PERFORMANCE

OPTIONS TO HELP INCREASE PRODUCTIVITY

Drum and operator station options can improve performance, safety, and stability and are designed to fit the weight and horsepower of the GC Vibratory Soil Compactors.

PADFOOT DRUM AND SHELL KIT OPTIONS

Oval-faced pads are ideal for thick-lift applications and introduce horizontal compaction force. The tapered profile is designed to penetrate deeper and help reduce material accumulation between the pads.

Square-faced pads produce good thin-lift results and are ideal for surface sealing.

Optional Cat padfoot shell kit halves are universal and work on 2134 mm (84 inch) drum performance and GC soil compactors.

NOTE: Bumper and scraper design is different between performance and GC models. Please consult your Cat dealer for more information.

OVAL-FACED PAD

SQUARE-FACED PAD

OPTIONAL XT WEIGHT KIT FOR FIELD INSTALL

Kits increase machine weight to upgrade 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 compactors to work in a wider range of applications and lift thicknesses. These options provide flexible machine weights for governmental tenders and rental fleets.

OPERATOR STATION OPTIONS

ISO mounted canopy and cab options help protect operators from the elements. The standard equipped sun canopy can be upgraded to a ROPS/FOPS canopy or a climate-controlled ROPS/FOPS cab.

SUN CANOPY

ROPS/FOPS CANOPY

ROPS/FOPS CAB

CAT COMPACT TECHNOLOGY

SCALABLE TO MEET YOUR NEEDS

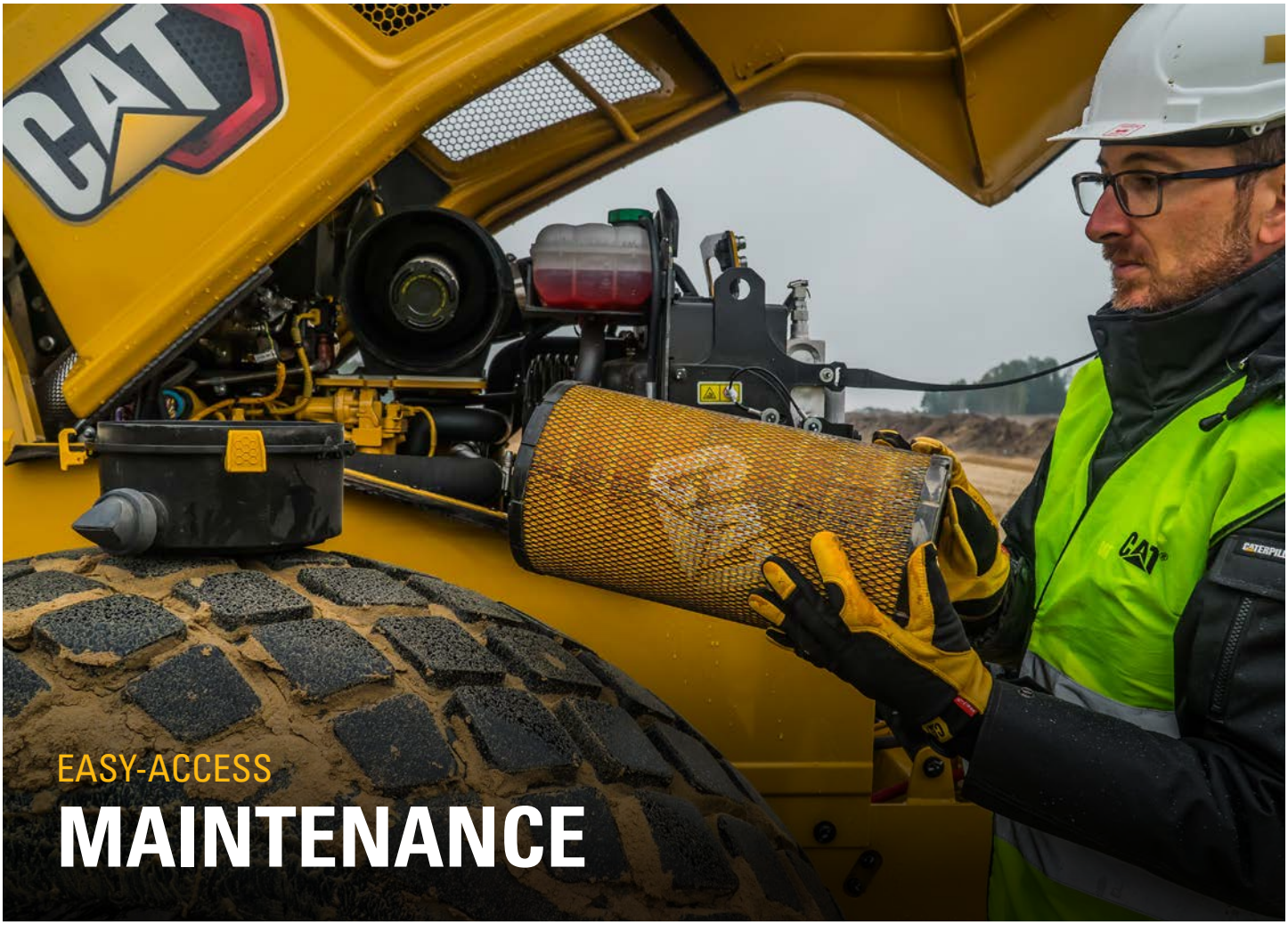
Cat Compact technologies help operators compact to specification with greater consistency, uniformity and efficiency than is possible using human intuition alone. Cat Compact technology is easy-to-use, versatile and scalable, allowing you to customize a solution that meets your needs now, and in the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

MACHINE DRIVE POWER (MDP)

Machine Drive Power (MDP) is an exclusive technology that measures the energy required to overcome rolling resistance to indicate soil stiffness. MDP works with the 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)

Compaction Meter Value (CMV) utilizes a drum-mounted accelerometer to provide indications of the 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.



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 upward to access to the engine and cooling system. Scheduled Oil Sampling (S·O·S℠) ports are provided to help make fluid sampling simple and quick.

LOW-MAINTENANCE DESIGN

Just like other Cat vibratory soil compactors you've known over the years, the GC models feature a hitch with sealed-for-life bearings and a battery that do not require routine maintenance. The pod-style eccentric weights have a 3-year, 3000-hour maintenance interval, helping to keep you running longer between services.

EXTEND FLUID CHANGE INTERVALS

Monitor fluid conditions with regular sampling to help extend change intervals up to:

+ 12000 hour coolant change
+ 3000 hour hydraulic oil change
+ 3000 hour vibration bearing oil check
+ 500 hour engine oil and filter change

CAT EQUIPMENT MANAGEMENT TECHNOLOGY
TAKES THE GUESSWORK OUT OF MANAGING YOUR EQUIPMENT

Cat equipment management telematics technology helps take the complexity out of managing your jobsites – by gathering data generated by your equipment, materials, and people and serving it up to you in customizable formats.

VISIONLINK®

VisionLink® takes the guesswork out of managing your entire fleet – regardless of size or equipment manufacturer.* Review equipment data from your desktop or mobile device to maximize uptime and optimize assets. With interactive dashboards, VisionLink makes it easier for operations of all sizes to make informed decisions that lower costs, simplify maintenance, and improve safety and security on your jobsite. With different subscription-level options, your Cat dealer can help you determine what you need to connect your fleet and manage your business.

+ 24/7 Fleet Monitoring
+ Mixed Fleet Management
+ Optimize Fleet Utilization
+ Track Assets by Location
+ View Asset Health Status
+ Review Inspection Reports
+ Assign Maintenance Tasks
+ Minimize Downtime
+ Request Service and Order Parts
+ Download Summary Reports

** Data field availability can vary by equipment manufacturer.*

TECHNICAL SPECIFICATIONS

ENGINE AND POWERTRAIN	
Engine Model	Cat® C4.4
Emissions	Brazil MAR-1, equivalent to U.S. EPA Tier 3 and EU Stage IIIA
Engine Power – ISO 14396:2002	83 kW 111.3 hp
Gross Power – SAE J1995:2014	83.8 kW 112.4 hp
Net Power – ISO 9249:2014*	79.4 kW 106.5 hp
Net Power – SAE J1349:2011*	78.5 kW 105.3 hp
Number of Cylinders	4
Displacement	4.4 L 268.5 in^3
Stroke	127 mm 5 in
Bore	105 mm 4.1 in
Maximum Travel Speed	11 km/h 6.8 mph
Traction Control Advanced (CS13 GC, CP13 GC)	10 km/h 6.2 mph
Theoretical Gradeability, with or without vibration**	
CS10 GC	55%
CS11 GC	55%
CS13 GC	50%
CP11 GC	55%
CP13 GC	50%

* *Net power advertised is the power available at the engine flywheel when equipped with a fan at maximum speed, air cleaner, and alternator.*

** *Actual gradeability may vary based on site conditions and machine configuration. Refer to the Operation and Maintenance Manual for more information.*

AIR CONDITIONING

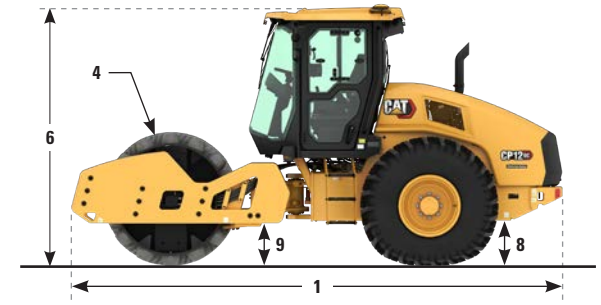
The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 2.2 kg (4.91 lb) of refrigerant, which has a CO_2 equivalent of 3.146 metric tonnes (3.468 tons).

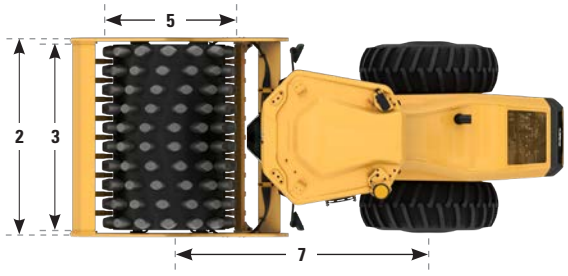
DIMENSIONS		
1	Overall Length	5.7 m 18.7 ft
2	Overall Width	2.3 m 7.5 ft
3	Drum Width	2134 mm 84 in
4	Drum Shell Thickness	25 mm 1 in
5	Drum Diameter	
	Smooth Drum	1535 mm 60.4 in
	Padfoot Drum	1549 mm 60.9 in
6	Overall Height	3 m 9.8 ft
	Smooth Drum with Padfoot Shell Kit	3.03 m 9.9 ft
7	Wheelbase	3 m 9.8 ft
8	Ground Clearance	
	Smooth Drum	518 mm 20.4 in
	Padfoot Drum	516 mm 20.3 in
9	Curb Clearance	
	Smooth Drum	492 mm 19.4 in
	Padfoot Drum	496 mm 19.5 in
	Inside Turning Radius	3.9 m 12.7 ft
	Hitch Articulation Angle	34°
	Hitch Oscillation Angle	15°

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

PADFOOT DRUM SPECIFICATIONS	
Number of Pads	140
Number of Chevrons	14
Oval Pads	
Pad Height	127 mm 5 in
Pad Face Area	74.4 cm^2 11.5 in^2
Square Pads	
Pad Height	100 mm 3.9 in
Pad Face Area	123 cm^2 19.1 in^2

OPTIONAL PADFOOT SHELL KIT SPECIFICATIONS	
Number of Pads	120
Number of Chevrons	16
Oval Pads	
Pad Height	89.8 mm 3.5 in
Pad Face Area	63.5 cm^2 9.8 in^2
Square Pads	
Pad Height	89.8 mm 3.5 in
Pad Face Area	105.7 cm^2 16.4 in^2





TECHNICAL SPECIFICATIONS

SMOOTH DRUM MACHINE WEIGHTS						
	CS10 GC		CS11 GC		CS13 GC	
OPERATING WEIGHT						
Sun Canopy	10 160 kg	22,400 lb	10 904 kg	24,038 lb	12 321 kg	27,163 lb
Oval Padfoot Shell Kit	11 842 kg	26,106 lb	12 585 kg	27,745 lb	12 989 kg	28,636 lb
Square Padfoot Shell Kit	12 001 kg	26,457 lb	12 744 kg	28,096 lb	13 148 kg	28,986 lb
ROPS/FOPS Canopy	10 338 kg	22,791 lb	11 081 kg	24,430 lb	12 499 kg	27,556 lb
Oval Padfoot Shell Kit	12 019 kg	26,498 lb	12 763 kg	28,137 lb	13 167 kg	29,035 lb
Square Padfoot Shell Kit	12 178 kg	26,849 lb	12 922 kg	28,487 lb	13 326 kg	29,379 lb
ROPS/FOPS Cab	10 492 kg	23,131 lb	11 235 kg	24,769 lb	12 653 kg	27,895 lb
Oval Padfoot Shell Kit	12 173 kg	26,838 lb	12 917 kg	28,476 lb	13 321 kg	29,028 lb
Square Padfoot Shell Kit	12 333 kg	27,188 lb	13 076 kg	28,827 lb	13 480 kg	29,379 lb
WEIGHT AT DRUM						
Sun Canopy	5785 kg	12,754 lb	6058 kg	13,354 lb	7646 kg	16,857 lb
Oval Padfoot Shell Kit	7413 kg	16,343 lb	7686 kg	16,944 lb	7934 kg	18,329 lb
Square Padfoot Shell Kit	7572 kg	16,694 lb	7845 kg	17,294 lb	8093 kg	18,680 lb
ROPS/FOPS Canopy	5855 kg	12,907 lb	6127 kg	13,507 lb	7715 kg	17,009 lb
Oval Padfoot Shell Kit	7483 kg	16,496 lb	7755 kg	17,097 lb	8003 kg	18,481 lb
Square Padfoot Shell Kit	7642 kg	16,847 lb	7914 kg	17,447 lb	8162 kg	18,832 lb
ROPS/FOPS Cab	5897 kg	13,001 lb	6170 kg	13,602 lb	7758 kg	17,103 lb
Oval Padfoot Shell Kit	7525 kg	16,591 lb	7798 kg	17,191 lb	8046 kg	18,576 lb
Square Padfoot Shell Kit	7684 kg	16,941 lb	7957 kg	17,541 lb	8205 kg	18,927 lb

Operating weights are approximate and consider full fluids and 75 kg (165 lb) operator. Cab weights include heat and air conditioning.

SMOOTH DRUM VIBRATORY SYSTEM						
	CS10 GC		CS11 GC		CS13 GC	
Nominal Amplitude – High	2 mm	0.079 in	2 mm	0.079 in	2 mm	0.079 in
Frequency at High Idle	30 Hz	1800 vpm	30 Hz	1800 vpm	30 Hz	1800 vpm
Frequency at Eco-Mode	28.6 Hz	1716 vpm	28.6 Hz	1716 vpm	28.6 Hz	1716 vpm
Nominal Amplitude – Low	1 mm	0.039 in	1 mm	0.039 in	1 mm	0.039 in
Frequency at High Idle	33 Hz	1980 vpm	33 Hz	1980 vpm	33 Hz	1980 vpm
Frequency at Eco-Mode	31.5 Hz	1890 vpm	31.5 Hz	1890 vpm	31.5 Hz	1890 vpm
Centrifugal Force						
Maximum @ 30 Hz (1800 vpm)	250 kN	56,200 lb	250 kN	56,200 lb	250 kN	56,200 lb
Minimum @ 33 Hz (1980 vpm)	149 kN	33,500 lb	149 kN	33,500 lb	149 kN	33,500 lb
VM Class at High Amplitude (Cab Configuration)	VM2		VM3		VM3	
MicroVibe™ Nominal Amplitude @ 33 Hz (1980 vpm)						
High	1.19 mm	0.047 in	1.19 mm	0.047 in	1.19 mm	0.047 in
Low	0.21 mm	0.008 in	0.21 mm	0.008 in	0.21 mm	0.008 in
MicroVibe Centrifugal Force @ 33 Hz (1980 vpm)						
Maximum	176 kN	39,566 lb	176 kN	39,566 lb	176 kN	39,566 lb
Minimum	31 kN	6969 lb	31 kN	6969 lb	31 kN	6969 lb
MicroVibe VM Class at High Amplitude (Cab Configuration)	VM2		VM2		VM2	
Static Linear Load						
Sun Canopy	27.1 kg/cm	151.8 lbs/in	28.4 kg/cm	159 lbs/in	35.8 kg/cm	200.6 lbs/in
ROPS/FOPS Canopy	27.4 kg/cm	153.6 lbs/in	28.7 kg/cm	160.8 lbs/in	36.2 kg/cm	202.5 lbs/in
ROPS/FOPS Cab	27.6 kg/cm	154.8 lbs/in	28.9 kg/cm	161.9 lbs/in	36.4 kg/cm	203.6 lbs/in

Static Linear Load listed is approximate and varies by machine configuration.

TECHNICAL SPECIFICATIONS

PADFOOT DRUM MACHINE WEIGHTS				
	CP11 GC		CP13 GC	
OPERATING WEIGHT				
Sun Canopy				
Oval Padfoot Drum	11 055 kg	24,372 lb	12 307 kg	27,132 lb
Square Padfoot Drum	11 087 kg	24,443 lb	12 339 kg	27,203 lb
ROPS/FOPS Canopy				
Oval Padfoot Drum	11 233 kg	24,764 lb	12 485 kg	27,524 lb
Square Padfoot Drum	11 265 kg	24,835 lb	12 517 kg	27,594 lb
ROPS/FOPS Cab				
Oval Padfoot Drum	11 387 kg	25,104 lb	12 639 kg	27,863 lb
Square Padfoot Drum	11 419 kg	25,174 lb	12 671 kg	27,934 lb
WEIGHT AT DRUM				
Sun Canopy				
Oval Padfoot Drum	6303 kg	13,894 lb	7655 kg	16,877 lb
Square Padfoot Drum	6334 kg	13,965 lb	7687 kg	16,947 lb
ROPS/FOPS Canopy				
Oval Padfoot Drum	6372 kg	14,047 lb	7725 kg	17,030 lb
Square Padfoot Drum	6404 kg	14,118 lb	7757 kg	17,100 lb
ROPS/FOPS Cab				
Oval Padfoot Drum	6415 kg	14,142 lb	7767 kg	17,123 lb
Square Padfoot Drum	6447 kg	14,212 lb	7800 kg	17,195 lb

Operating weights are approximate and consider full fluids and 75 kg (165 lb) operator. Cab weights include heat and air conditioning.

PADFOOT DRUM VIBRATORY SYSTEM				
	CP11 GC		CP13 GC	
Nominal Amplitude – High	1.8 mm	0.071 in	1.8 mm	0.071 in
Frequency at High Idle	30 Hz	1800 vpm	30 Hz	1800 vpm
Frequency at Eco-Mode	28.6 Hz	1716 vpm	28.6 Hz	1716 vpm
Nominal Amplitude – Low	0.89 mm	0.035 in	0.89 mm	0.035 in
Frequency at High Idle	33 Hz	1980 vpm	33 Hz	1980 vpm
Frequency at Eco-Mode	31.5 Hz	1890 vpm	31.5 Hz	1890 vpm
Centrifugal Force				
Maximum @ 30 Hz (1800 vpm)	249 kN	55,932 lb	249 kN	55,932 lb
Minimum @ 33 Hz (1980 vpm)	148 kN	33,249 lb	148 kN	33,249 lb
VM Class at High Amplitude (Cab Configuration)	VM3		VM3	

STANDARD & OPTIONAL EQUIPMENT

Features, standard and optional equipment may vary by region. Please check with your local Cat dealer for specific offerings and availability in your area.

OPERATOR ENVIRONMENT	STANDARD	OPTIONAL
Sun Canopy with Handrails, Floor Mat, Interior Rear View Mirror	●	
ROPS/FOPS Canopy with Handrails, Floor Mat, Interior Rear View Mirror		○
ROPS/FOPS Cab with Climate Control, Floor Mat, Exterior Rear View Mirrors		○
Vinyl Adjustable Seat	●	
Vinyl Suspension Seat		○
Deluxe High-back Air-ride Seat (Cab)		○
Sun/Debris Shields (Canopy)		○
Roll-down Sun Screen (Cab)		○
Interior Rear View Mirror (Cab)		○
Exterior Rear View Mirrors (Canopy)		○
Adjustable Tilting Steering Column	●	
Rear View Camera with Color Touchscreen Display		○
High Visibility 76 mm (3 in) Seat Belt	●	
12-Volt Power Outlet	●	
Horn, Backup Alarm	●	
Seat Belt Switch		○
Sound Reduction Kit		○

VIBRATORY SYSTEM	STANDARD	OPTIONAL
Smooth Drum (CS10 GC, CS11 GC, CS13 GC)	●	
Padfoot Drum – Oval or Square Pads (CP11 GC, CP13 GC)	●	
Removable Shell Kit – Oval or Square Pads (CS10 GC, CS11 GC, CS13 GC)		○
Pod-Style Eccentric Weight Housings	●	
Dual Amplitude, Dual Frequency	●	
Auto-vibe Function	●	
MicroVibe™ (CS10 GC, CS11 GC, CS13 GC)		○
Rear Adjustable Steel Scraper	●	
Dual Adjustable Steel Scrapers (CP11 GC, CP13 GC)	●	
Dual Adjustable Steel Scrapers (CS10 GC, CS11 GC, CS13 GC)		○
Dual Adjustable Polyurethane Scrapers (CS10 GC, CS11 GC, CS13 GC)		○

TECHNOLOGY SOLUTIONS	STANDARD	OPTIONAL
VisionLink®	●	
Remote Disable		○
Measure – Machine Drive Power (MDP)		○
Measure – Compaction Meter Value (CMV) (CS10 GC, CS11 GC, CS13 GC)		○
Machine Speed Sensor		○

POWERTRAIN	STANDARD	OPTIONAL
Cat C4.4 Engine	●	
Single Propel Pump	●	
Fuel Filter, Water Separator, Priming Pump, Water Indicator	●	
Eco-Mode	●	
Radiator/Hydraulic Oil Cooler	●	
Dual Braking System	●	
Two-Speed Hydrostatic Transmission	●	
Limited Slip Differential	●	
Traction Control Basic		○
Traction Control Advanced (CS13 GC, CP13 GC)		○
Transmission Guard		○

ELECTRICAL	STANDARD	OPTIONAL
12-Volt Electrical System	●	
120-Amp Alternator	●	
900 Cold-cranking Amps Battery Capacity	●	
Battery Disconnect Switch	●	

OTHER	STANDARD	OPTIONAL
Sight Gauges for Hydraulic Oil Level and Radiator Coolant Level	●	
Scheduled Oil Sampling (S•O•S℠) Ports: Engine Oil, Hydraulic Oil, and Coolant	●	
High Ambient Hydraulic Oil (Factory Fill)		○
Lug Tread Tires (CP11 GC, CP13 GC)	●	
Flotation Tread or Lug Tread Tires (CS10 GC, CS11 GC, CS13 GC)		○
Working Lights (2 Forward, 2 Rear)	●	
Upgraded Lighting Package (4 Forward, 4 Rear)		○
Amber Rotating Beacon		○
XT Weight Kit (CS10 GC, CS11 GC)		○

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

Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

QEDQ2247-04 (12-2024)
Build Number: 01A
Brazil MAR-1, equivalent to
U.S. EPA Tier 3 and EU Stage IIIA

CAT®