

CS10 GC Vibratory Soil Compactor

Technical Specifications

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

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ENGINE			
Engine Model	Cat®	Cat® C3.6	
Engine Power - ISO 14396:2002	90.0 kW	120.7 hp	
Gross Power - SAE J1995:2014	91.7 kW	123 hp	
Net Power - ISO 9249:2007	83.7 kW	112.2 hp	
Net Power - SAE J1349:2011	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	

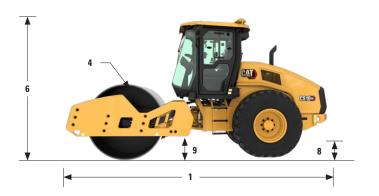
- Cat C3.6 engine meets U.S. EPA Tier 4 Final / EU Stage V emission standards.
- The power ratings apply at an engine speed of 2,000 rpm when tested under the conditions for the specified standard in effect at the time of manufacture. The stated speed is when tested under the reference conditions for 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.

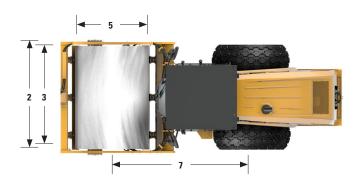
SERVICE REFILL CAPACITIES		
Fuel Tank (total capacity)	213 L	56.3 gal
Diesel Exhaust Fluid (DEF) refill capacity	19 L	5.0 gal
Cooling System	18.5 L	4.9 gal
Engine Oil w/ Filter	11.6 L	3.1 gal
Eccentric Weight Housings (combined)	26 L	6.9 gal
Axle and Final Drives	10 L	2.6 gal
Hydraulic Tank (service refill)	23 L	6.1 gal

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

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	34°	
Hitch Oscillation Angle	15	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	

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	5!	5%

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

Operating Weight - Standard 10 340kg 22,796 lb 10 49 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 French Classification, data/class WMZ 38.6 VMZ 38.9 VMZ Low Amplitude 27.3 VMZ 27.5 VMZ Low Amplitude 27.3 VMZ 27.5 VMZ MYT weight Bumper 11353 kg 25,000 lb 15,007 lb 25,308 lb At Drum 7170 kg 15,807 lb 7213 kg 15,902 lb Static Linear Load 38.6 kg/cm 188.1 lbs/in 38 kg/cm 189.3 lbs/in French Classification, data/class 47.5 VM3 47.8 VM3 High Amplitude 47.5 VM3 47.8 VM2 At Drum 7458 kg 16,442 lb 750 kg 16,538 lb French Classification, data/class 1218 kg 26,854 lb 1235 kg	OPERATION SPECIFICATION	ROPS/FOI	PS Canopy	ROPS/F	OPS Cab
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 11353 kg 25.030 lb 115.07 kg 25.969 lb At Drum 7170 kg 15,807 lb 7213 kg 15,902 lb Static Linear Load 33.6 kg/cm 188.1 lbs/in 38.8 lbs/in 189.3 lbs/in French Classification, data/class High Amplitude 47.5 VM3 47.8 VM3 Low Amplitude 47.5 VM3 47.8 VM3 At Drum 7458 kg 16,442 lb 750 kg 16,538 lb French Classification, data/class High Amplitude 41.5 VM3 41.7 VM3 Low Amplitude 41.5 VM3 41.7 VM3 Low Amplitude 41.5 VM2 28.8 VM2 W/Square Shell Kit 12 181 kg 26,854 lb 12 335 kg <t< th=""><th>Operating Weight - Standard</th><th>10 340kg</th><th>22,796 lb</th><th>10 494 kg</th><th>23,136 lb</th></t<>	Operating Weight - Standard	10 340kg	22,796 lb	10 494 kg	23,136 lb
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 47.5 VM3 47.8 VM3 High 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 750 lkg 16,538 lb French Classification, data/class 41.5 VM3 41.7 VM3 Low Amplitude 41.5 VM3 41.7 VM3 Low Amplitude 28.6 VM2 28.8 VM2 W/ Square Shell Kit 12 18 kg 26,854 lb 12 335 kg 27,194 lb At Drum <t< td=""><td>At Drum</td><td>5830 kg</td><td>12,853 lb</td><td>5873 kg</td><td>12,948 lb</td></t<>	At Drum	5830 kg	12,853 lb	5873 kg	12,948 lb
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Low Amplitude 27.8 VM2 28.0 VM2	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.

Standard and Optional Equipment

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

	Standard	Optional
OPERATOR ENVIRONMENT		
ROPS/FOPS Canopy with Handrails/ Guardrails, Floormat	✓	
Vinyl Adjustable Seat, Seat Belt	✓	
Adjustable Tilting Steering Column	✓	
12-volt Power Outlet	✓	
Horn, Backup Alarm	✓	
Internal Rear View Mirror	✓	
ROPS/FOPS Cab with Climate Control		✓
Deluxe High-back Air-ride Seat (Cab)		✓
Sun/Debris Shields (Canopy)		✓
Cab Internal Roll-down Sun Screen (Cab)		✓
Rear View Camera with Color Touchscreen Display		✓
Sound Reduction Kit		✓
VIBRATORY SYSTEM		
Smooth Drum	\checkmark	
Dual Amplitude, Dual Frequency	✓	
Pod-Style Eccentric Weight Housings	✓	
Auto-vibe Function	✓	
Rear Adjustable Steel Scraper	✓	
Padfoot Shell Kit (oval or square pads available)		✓
Dual Adjustable Steel Scrapers		✓
Dual Adjustable Polyurethane Scrapers		✓

	Standard	Optional
POWERTRAIN		·
Cat® C3.6 Diesel Engine, 4 cylinder	✓	
Single Propel Pump	✓	
Fuel Filter, Water Separator, Priming Pump, Water Indicator	✓	
Radiator/Hydraulic Oil Cooler	✓	
Dual Braking System	✓	
Two-speed Hydrostatic Transmission	✓	
Transmission Guard		✓
TECHNOLOGY SOLUTIONS		
Measure - Machine Drive Power and/or CMV		✓
Map - SBAS GNSS Mapping		✓
Connect - Cloud and Machine Connectivity		✓
ELECTRICAL		
12 volt Electrical System	✓	
150 ampere Alternator	✓	
900 Cold-cranking Amps Battery Capacity	✓	
OTHER		
Product Link [™]	✓	
Sight Gauges for Hydraulic Oil Level and Radiator Coolant Level	✓	
S·O·S SM Sampling Valves: Engine Oil, Hydraulic Oil and Coolant	✓	
High Ambient Temperature Oil Factory Fill		✓
Printer Port		✓
Seat Belt Switch		✓
Upgraded LED Light Package		✓
Amber Rotating Beacon		✓
NEAN : 1 - 10:		

Environmental Declaration

The following information applies to the machine at the time of final manufacture as configured for sale in the regions covered in this document. The content of this declaration is valid as of the date issued; however, content related to machine features and specifications are subject to change without notice. For additional information, please see the machine's Operation and Maintenance Manual.

For more information on sustainability in action and our progress, please visit www.caterpillar.com/en/company/sustainability.html.

ENGINE

- The Cat C3.6 is available in configurations that meet U.S. EPA Tier 4
 Final and EU Stage V emission standards.
- Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels up to:
 - √ 20% biodiesel FAME (fatty acid methyl ester)
 - √ 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels

Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.

AIR CONDITIONING SYSTEM

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 2.2 kg (4.9 lb) of refrigerant, which has a $\rm CO_2$ equivalent of 3.146 metric tonnes (3.468 tons).

PAINT

- Based on best available knowledge, the maximum allowable concentration, measured in parts per million (PPM), of the following heavy metals in paint are:
- Barium < 0.01%
- Cadmium < 0.01%
- Chromium < 0.01%
- Lead < 0.01%

SOUND PERFORMANCE

With cooling fan speed at maximum value:

Operator Sound Pressure Level (ISO 6396:2008) - 76 dB(A)

Exterior Sound Power Level (ISO 6395:2008) - 109 dB(A)

- When properly installed and maintained, the cab offered by Caterpillar, when tested with doors and windows closed according to ANSI/SAE J1166 OCT98, meets OSHA and MSHA requirements for operator sound exposure limits in effect at time of manufacture.
- 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.

OILS AND FLUIDS

- Caterpillar factory fills with ethylene glycol coolants. Cat Diesel Engine Antifreeze/Coolant (DEAC) and Cat Extended Life Coolant (ELC) can be recycled. Consult your Cat dealer for more information.
- Cat BIO HYDO™ Advanced is an EU Ecolabel approved biodegradable hydraulic oil.
- Additional fluids are likely to be present, please consult the Operations and Maintenance Manual or the Application and Installation guide for complete fluid recommendations and maintenance intervals.

FEATURES AND TECHNOLOGY

- The following features and technology may contribute to fuel savings and/or carbon reduction. Features may vary. Consult your Cat dealer for details.
 - Standard eco-mode limits engine RPM, lowering overall fuel consumption by up to 10% compared to high idle
 - Optional compaction control reduces unnecessary passes, contributing to lower overall fuel consumption
 - Extended maintenance intervals reduce fluid and filter consumption
 - Auto engine idle shutdown reduces unproductive hours and fuel burned

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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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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