



Cat[®] CB2.5 GC, CB2.7 GC, CC2.7 GC

Utility Compactors

The Cat[®] CB2.5 GC, CB2.7 GC, and CC2.7 GC Utility Compactors are well suited for a variety of applications from asphalt to granular base applications. Simplicity, durability, and easy access to routine service points make these compactors an asset to contractors and rental houses.

Simple to Operate

- Convenient, dual-side access with large handrails and wide slip-resistant steps simplify ingress/egress
- Operating console includes gauges for fuel level, water tank level, hour meter, engine coolant temperature as well as warning light indicators to help keep the operator informed
- Durable rocker style switches provide easy activation for engine speed, vibratory drum selection, parking brake, lights, and the optional warning beacon
- Engine speed is controlled with a momentary selection switch for low, mid-range, and high speed settings
- Optional fore/aft and side to side seat adjustments combine with dual propel levers to enable good visibility to either side of the machine

Proven Powertrain

- Efficient Cat[®] C1.7T engine provides 18.4 kW (24.7 hp) of power (*U.S. EPA Engine power is 17.8 kW (23.8 hp).*)
- Auto-warmup feature is designed to prevent vibratory system activation and high engine idle speed until the hydraulic system reaches 10° C (50° F)
- Auto-idle shutdown activates after the factory set default of 30 minutes, shutdown time can be adjusted with Cat Electronic Technician (Cat ET)
- Maximum gradeability occurs when operated with the mid-range engine speed of 1800 rpm selected, while maximum travel speed occurs at the high engine speed of 2200 rpm
- Optional traction control is designed to minimize drum slips and enhance gradeability

Compaction Performance

- Two vibratory frequencies of 50 Hz (3000 vpm) and 62 Hz (3720 vpm) correspond with engine speeds of 1800 rpm and 2200 rpm to provide working speed versatility
- Front only, rear only, or both drum vibratory capabilities help operators conform to a variety of conditions
- Automatic vibratory control offers ramp in, ramp out adjustment, configurable through Cat ET
- Optional Compaction Meter Value (CMV) is designed to keep the operator informed of compaction performance and provide quality control measures
- Single point lift option and robust hitch design provides transport options as well as expanded application versatility for trench work
- Ballast options mounted to the drum supports provide flexibility that increases static linear load for additional compaction performance

Keep the Drums Clean

- Pressurized water spray system with intermittent settings is designed to help operators match conditions for efficient performance
- Triple filtration helps prevent clogs with filters located at the fill point, water pump, and spray nozzles
- The automatic on/off feature deactivates the water spray system when the propel lever moves to neutral and activates the system when the propel lever moves from neutral
- Adjustable folding or fixed design drum scraper options are available
- The integrated freeze protection kit (optional) provides protection in cold temperatures when the machine is not in use



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Service and Maintenance

- VisionLink® is a cloud-based software application that provides data to desktop or mobile devices, taking the guesswork out of fleet management with key insights to maximize performance – regardless of fleet size or equipment manufacturer
- Cat Electronic Technician (Cat ET) capability provides service and trouble-shooting simplification
- Oil change interval of 500 hours is designed to limit downtime and reduce routine maintenance costs
- External fuel fill with lockable cap offers easy access, while providing security
- LED lighting delivers good job site illumination while conserving energy
- Uptime kits and Customer Value Agreements (CVA) are designed to limit downtime

Safety

- An operator presence switch located in the seat is designed to prevent machine operation when not activated
- The seat is equipped with a standard 75 mm (3"), high-visibility, seatbelt that is designed to simplify in-use recognition
- Slip resistant steps and platform make it easier for operator ingress/egress
- Quick-connect harness supports easy installation and removal of the warning beacon

Utility Compactor Application Guide

				0 - 1.8 Tons				1.8 - 3 Tons		3 - 5 Tons		
	Application	Layer Thickness mm (in)	CB1.7	CB1.8	CB2.5 CB2.5 GC	CB2.7 CB2.7 GC	CC2.7 CC2.7 GC	CB2.9	CB4.0	CB4.4	CC4.0	
			900 mm (35 in)	1000 mm (39 in)	1000 mm (39 in)	1200 mm (47 in)	1200 mm (47 in)	1300 mm (51 in)	1300 mm (51 in)	1400 mm (55 in)	1300 mm (51 in)	
Asphalt	Walking Paths, Driveways, Patchwork	25 - 50 (1 - 2)	Best	Best	Better	Better	Better	Good	Good	Good	Good	
		50 - 100 (2 - 3)	Best	Best	Better	Better	Better	Good	Good	Good	Good	
	Parking Lots, Urban Streets	25 - 50 (1 - 2)	Better	Best	Best	Best	Best	Best	Better	Better	Better	
		50 - 100 (2 - 3)	Better	Better	Best	Best	Best	Best	Better	Better	Best	
	Roads, Highways	25 - 50 (1 - 2)	Good	Good	Better	Better	Better	Best	Best	Best	Best	
		50 - 100 (2 - 3)	Good	Good	Better	Better	Better	Better	Best	Best	Best	
Soil	Landscaping	< 100 (4)	Best	Best	Better	Better	Better	Good	Good	Good	Good	
	Small Job Sites	< 100 (4)	Good	Good	Best	Best	Best	Better	Better	Better	Better	
	Medium Job Sites	< 100 (4)	Good	Good	Better	Better	Better	Best	Best	Best	Best	

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Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
OPERATOR ENVIRONMENT			POWERTRAIN		
12-volt power receptacle	✓		Auto engine off and auto warmup	✓	
Adjustable suspension seat with operator presence switch	✓		Air cleaner, dual element	✓	
Dual propel levers		✓	Engine belt guard	✓	
Horn, backup alarm	✓		Fuel filter, water separator, fuel priming pump	✓	
ROPS folding	✓		On-demand hydraulic cooling system	✓	
ROPS fixed		✓	Traction control (CB2.5 GC, CB2.7 GC)		✓
Seat belt – 75 mm (3 in) high visibility orange	✓		TECHNOLOGY		
Seat – adjustable side to side		✓	CMV - Compaction Meter Value		✓
Sun canopy		✓	VisionLink®	✓	
COMPACTION SYSTEM			- Remote Flash	✓	
Ballast kit – 100 kg (220 lb) (CC2.7 GC only)		✓	- Remote Troubleshooting	✓	
Ballast kit – 200 kg (440 lb) (CB2.5 GC, CB2.7 GC)		✓	ELECTRICAL		
Ballast kit – 400 kg (880 lb) (CB2.5 GC, CB2.7 GC)		✓	Battery disconnect		✓
Drum scrapers, fixed or folding		✓	LED roading lights		✓
Edge cutter ready		✓	LED working lights	✓	
Pressurized water spray system	✓		Warning beacon		✓
Vibratory drum selection – front, rear, or both	✓		OTHER		
Water sprayer antifreeze kit		✓	Biodegradeable hydraulic oil		✓
			Bumpers		✓
			Custom paint		✓
			Offset hitch	✓	
			Single point lift		✓
			Vandal protection – lockable hood, fuel fill, and controls cover	✓	

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Technical Specifications

Engine - Powertrain

Engine Model	Cat® C1.7T	
Emissions ¹	U.S. EPA Tier 4 Final, EU Stage V	
<i>¹ Engines with power ratings under 19 kW (25 hp) are not regulated in all regions.</i>		
Number of Cylinders	3	
Rated Speed	2200 rpm	
Engine Power ISO 14396:2002 ²	18.4 kW	24.7 hp
<i>² U.S. EPA engine power is 17.8 kW (23.8 hp).</i>		
Exhaust gas aftertreatment type	Muffler	

Machine Performance

Maximum Machine Speed		
CB2.5 GC, CB2.7 GC	9.4 km/hr	5.8 mph
CC2.7 GC	8.6 km/hr	5.3 mph
Theoretical Gradeability (no vibs)		
CB2.5 GC	44%	
CB2.7 GC	41%	
CC2.7 GC	50%	

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

Vibratory System Specifications

Frequency		
High	62 Hz	3720 vpm
Low	50 Hz	3000 vpm
Amplitude		
CB2.5 GC	0.51 mm	0.020 in
CB2.7 GC	0.52 mm	0.020 in
CC2.7 GC	0.52 mm	0.020 in
Maximum Centrifugal Force		
CB2.5 GC	26.2 kN	5885.3 lbf
CB2.7 GC	31.0 kN	6968.8 lbf
CC2.7 GC	31.0 kN	6968.8 lbf

Machine Weights

Standard Operating Weight with ROPS³		
CB2.5 GC	2521 kg	5546 lb
CB2.7 GC	2698 kg	5936 lb
CC2.7 GC	2599 kg	5718 lb
Maximum Weight⁴		
CB2.5 GC	3021 kg	6646 lb
CB2.7 GC	3198 kg	7036 lb
CC2.7 GC	2799 kg	6171 lb
Operating Weight (Front)		
CB2.5 GC	1185 kg	2607 lb
CB2.7 GC	1301 kg	2861 lb
CC2.7 GC	1310 kg	2882 lb
Operating Weight (Rear)		
CB2.5 GC	1336 kg	2939 lb
CB2.7 GC	1398 kg	3075 lb
CC2.7 GC	1289 kg	2836 lb
Weight per Tire – Operating Weight		
CC2.7 GC	322 kg	709 lb
Static Linear Load – Operating Weight (Front)		
CB2.5 GC	11.85 kg/cm	66.2 lb/in
CB2.7 GC	10.84 kg/cm	60.7 lb/in
CC2.7 GC	10.91 kg/cm	61.1 lb/in
Static Linear Load – Operating Weight (Rear)		
CB2.5 GC	13.36 kg/cm	74.7 lb/in
CB2.7 GC	11.65 kg/cm	65.1 lb/in

³ Operating Weights include coolant, lubricants, full fuel tank, 50% water, and 80 kg (176 lb) operator.

⁴ Maximum Machine Weight includes all options, heaviest ballast configuration, full fluids, and 80 kg (176 lb) operator.

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Technical Specifications

Electrical

System Voltage	12 v
Battery Capacity	750 CCA
Alternator	85 Amp

Dimensions

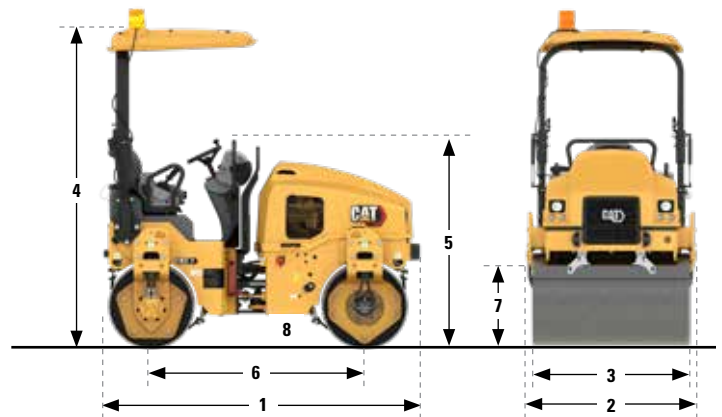
1 Overall Length*	2596 mm	102.2 in
2 Overall Width		
CB2.5 GC	1112 mm	43.8 in
CB2.7 GC	1312 mm	51.7 in
CC2.7 GC	1312 mm	51.7 in
3 Drum Width		
CB2.5 GC	1000 mm	39.4 in
CB2.7 GC	1200 mm	47.2 in
CC2.7 GC	1200 mm	47.2 in
Drum Shell Thickness	14 mm	0.6 in
Drum Diameter	720 mm	28.3 in
Drum Offset	50 mm	2.0 in
4 Overall Height		
with ROPS**	2595 mm	102.2 in
with ROPS and Canopy**	2709 mm	106.7 in
5 Transport Height with foldable ROPS	1799 mm	70.8 in
6 Wheelbase	1800 mm	70.9 in
7 Curb Clearance	453 mm	17.8 in
8 Ground Clearance	285 mm	11.2 in
Inside Turning Radius		
CB2.5 GC	2640 mm	103.9 in
CB2.7 GC	2540 mm	100.0 in
CC2.7 GC	2540 mm	100.0 in
Outside Turning Radius		
CB2.5 GC	3640 mm	143.3 in
CB2.7 GC	3740 mm	147.2 in
CC2.7 GC	3740 mm	147.2 in

Miscellaneous

Articulation Angle	32°
Oscillation Angle	6°
Number of Tires (CC2.7 GC)	4

Service Refill Capacities

Fuel Tank (total capacity)	55 L	14.37 gal
Water Spray Tank (total capacity)		
CB2.5 GC, CB2.7 GC	200 L	52.80 gal
CC2.7 GC	160 L	42.24 gal
Emulsion Tank (total capacity) (CC2.7 GC)	26 L	6.86 gal
Cooling System	7.9 L	2.09 gal
Engine Oil with Filter	6.0 L	1.58 gal
Hydraulic Tank (service refill)	21 L	5.54 gal



*Bumper option adds 95 mm (3.7 in)

**Beacon option adds 175 mm (6.8 in)

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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® C1.7T 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 (hydrogenated 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.

**Engines with no aftertreatment devices can use higher blends, up to 100% biodiesel.*

***Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels*

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 70% of maximum value:

Operator Sound Pressure Level (ISO 6396:2008) – 88 dB(A)

Exterior Sound Power Level (ISO 6395:2008) – 104 dB(A)

- Hearing protection may be needed when operating with an open operator station 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.
 - Advanced hydraulic system balances power and efficiency
 - Hydraulic on-demand fan changes speed with temperature
 - Extended maintenance intervals reduce fluid and filter consumption
 - Auto idle shutdown reduces unproductive hours and fuel burned

RECYCLING

- The materials included in machines are categorized as below with approximate weight percentage. Because of variations of product configurations, the following values in the table may vary.

Material Type	Weight Percentage		
	CB2.5 GC	CB2.7 GC	CC2.7 GC
Steel	69.59%	71.73%	66.65%
Iron	12.96%	12.05%	12.44%
Mixed Metal	5.24%	4.87%	5.03%
Fluid	3.31%	3.08%	3.18%
Nonferrous Metal	3.00%	2.79%	2.88%
Plastic	1.71%	1.59%	1.64%
Rubber	1.56%	1.45%	5.66%
Other	1.34%	1.25%	1.29%
Uncategorized	1.24%	1.15%	1.19%
Mixed Nonmetallic	0.03%	0.03%	0.03%
Mixed-Metal and Nonmetal	0.01%	0.01%	0.01%
Total	100%	100%	100%

- A machine with higher recyclability rate will ensure more efficient usage of valuable natural resources and enhance End-of-Life value of the product. According to ISO 16714 (Earthmoving machinery – Recyclability and recoverability – Terminology and calculation method), recyclability rate is defined as percentage by mass (mass fraction in percent) of the new machine potentially able to be recycled, reused or both.

All parts in the bill of material are first evaluated by component type based on a list of components defined by the ISO 16714 and Japan CEMA (Construction Equipment Manufacturers Association) standards. Remaining parts are further evaluated for recyclability based on material type.

Because of variations of product configurations, the following value in the table may vary.

Recyclability – 96%

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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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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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