

Cat® CB2.5, CB2.7, CB2.9, CC2.7

Utility Compactors

The Cat® line of 2-3 ton utility compactors are well suited for a variety of applications from asphalt work to base compaction and even landscaping. They are designed with industry leading features and performance to get the job done.

Simple to Operate

- Rocker switches and Cat® gauge cluster with water tank gauge to help make operation easy.
- Variable water spray system to extend time between water fills.
- Optional sliding operator seat and dual propel levers for reducing operator fatigue and better job surface visibility.

Proven Productivity

- Large 720 mm (28 in) drum diameters for smooth mat finish.
- 14 mm (0.55 in) thick drum shells for longer durability.
- Dual vibratory frequencies and ballast options to maximize compactive effort.
- C1.7T engine with 36 kW (48.2 hp) (gross).

Technology Ready

- ProductLink™ for remote monitoring of machine location and status.
- Optional Compaction Measurement Value (CMV) displayed to the operator for improved compaction performance and consistency.

Superior Safety

- High visibility 75 mm (3 in) orange seat belt to make job site safety visible.
- Seat with operator presence sensor to prevent unintended operation while out of the seat.
- Slip resistant steps and platform for improved operator safety.
- Optional rotating amber beacon.

Easy to Service

- Cat controls with ET capability for easy troubleshooting.
- Reduced maintenance tasks for quick servicing.
- 500 hour oil change interval to reduce maintenance time and costs
- External fuel fill for easy access.
- LED lighting for durable and reliable performance.
- Uptime kits and customer value agreements available to ensure maximum uptime.

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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

Standard and Optional Equipment

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

	Standard	Optional
OPERATOR ENVIRONMENT		
Adjustable Suspension Seat with Operator Presense Switch	✓	
ROPS Folding	✓	
ROPS Fixed		✓
Seat Belt – 75 mm (3 in) high visibility orange	✓	
Operator Console w/ Water Tank Gauge, Emergency Stop, and Glove Box	✓	
12-volt Power Outlet	✓	
Horn, Backup Alarm	✓	
Sun Canopy		✓
Seat – Side Shift		✓
Dual Propel Levers		✓
COMPACTION SYSTEM		
Folding Scrapers		✓
Fixed Scrapers	✓	
Vibe Selection – Front, Rear, or both	✓	
Pressurized, Triple-Filtration Spray System with Test Mode	✓	
Cocoa Mats		✓
Edge Cutter Ready		✓
Water Sprayer Antifreeze Kit		✓
Ballast Kit – 200 kg (440 lb) (CB2.5, CB2.7, CB2.9)		✓
Ballast Kit – 400 kg (880 lb) (CB2.5, CB2.7, CB2.9)		✓
Ballast Kit - 100 kg (220 lb) (CC2.7 only)		

	Standard	Optional
POWERTRAIN		
Auto Engine Off and Auto Warmup	✓	
Air Cleaner, Dual Element	✓	
Engine Belt Guard	✓	
Traction Control (CB2.5, CB2.7, CB2.9)		✓
Fuel Filter, Water Separator, Priming Pump, Water Indicator (CC2.7 only)	✓	
On-demand Hydraulic Cooling Fan	✓	
TECHNOLOGY		
Telematics – ProductLink™	✓	
Remote Flash / Troubleshoot		✓
CMV - Compaction Measurement Value		✓
ELECTRICAL		
LED Working Lights	✓	
Battery Disconnect		✓
LED Roading Lights		✓
Rotating Amber Beacon		✓
OTHER		
Vandal Protection – lockable hood, fuel fill, and controls cover	✓	
Biodegradeable Hydraulic Oil		✓
Bumpers		✓
Machine Lift and Tiedowns	✓	
Offsets Hitch	✓	
Single Point Lift		✓
Custom Paint		✓

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Technical Specifications

Engine - Powertrain		
Engine Model	Cat® C1.7T	
Emissions	US EPA Tier 4 Final EU Stage V	
Number of Cylinders	3	
Rated Speed	2800 rpm	
Engine Power ISO 14396:2002	36.0 kW	48.2 hp
Net Power ISO 9249:2007[1]	35.5 kW	47.6 hp
Exhaust gas aftertreatment type	DOC/DPF	

[1] *Net Power is calculated at minimum cooling fan speed.*

Machine Performance		
Maximum Machine Speed		
CB2.5, CB2.7, CB2.9	12 km/hr	7.5 mph
CC2.7	11 km/hr	6.8 mph
Theoretical Gradeability (no vibe)[2]		
CB2.5	44%	
CB2.7	41%	
CB2.9	38%	
CC2.7	50%	

[2] *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	64 Hz	3840 vpm
Low	53 Hz	3180 vpm
Amplitude		
CB2.5	0.51 mm	0.020 in
CB2.7	0.52 mm	0.020 in
CB2.9	0.50 mm	0.020 in
CC2.7	0.52 mm	0.020 in
Maximum Centrifugal Force		
CB2.5	30 kN	6697 lbf
CB2.7	35 kN	7929 lbf
CB2.9	36 kN	8109 lbf
CC2.7	35 kN	7929 lbf

Machine Weights[3]		
Standard Machine Operating Weight with ROPS		
CB2.5	2521 kg	5546 lb
CB2.7	2698 kg	5936 lb
CB2.9	2916 kg	6415 lb
CC2.7	2599 kg	5718 lb
Maximum Machine Weight[4]		
CB2.5	3021 kg	6646 lb
CB2.7	3198 kg	7036 lb
CB2.9	3416 kg	7515 lb
CC2.7	2779 kg	6114 lb
Operating Weight (Front)		
CB2.5	1185 kg	2607 lb
CB2.7	1301 kg	2861 lb
CB2.9	1391 kg	3060 lb
CC2.7	1310 kg	2882 lb
Operating Weight (Rear)		
CB2.5	1336 kg	2939 lb
CB2.7	1398 kg	3075 lb
CB2.9	1525 kg	3355 lb
CC2.7	1289 kg	2836 lb
Weight per Tire – Operating Weight		
CC2.7	322 kg	709 lb
Static Linear Load – Operating Weight (Front)		
CB2.5	11.85 kg/cm	66.2 lb/in
CB2.7	10.84 kg/cm	60.6 lb/in
CB2.9	10.70 kg/cm	59.8 lb/in
CC2.7	10.91 kg/cm	61.0 lb/in
Static Linear Load – Operating Weight (Rear)		
CB2.5	13.36 kg/cm	74.7 lb/in
CB2.7	11.65 kg/cm	65.1 lb/in
CB2.9	11.79 kg/cm	66.02 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.*

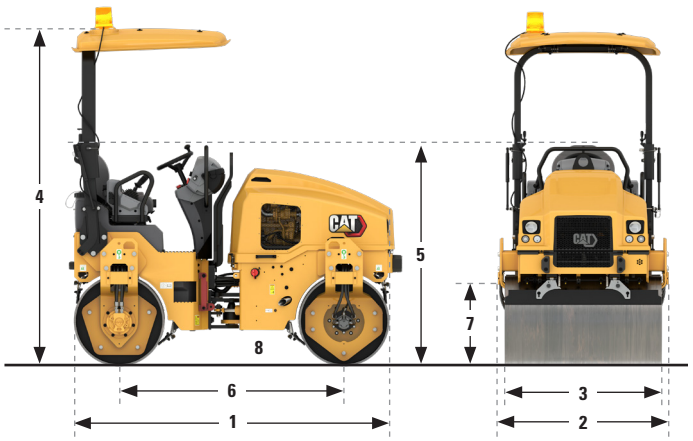
Technical Specifications

Electrical	
System Voltage	12 v
Battery Capacity	750 CCA
Alternator	85 Amp

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

	Dimensions		
1	Overall Length*	2596 mm	102.2 in
2	Overall Width		
	CB2.5	1112 mm	43.8 in
	CB2.7	1312 mm	51.7 in
	CB2.9	1412 mm	55.6 in
	CC2.7	1312 mm	51.7 in
3	Drum Width		
	CB2.5	1000 mm	39.4 in
	CB2.7	1200 mm	47.2 in
	CB2.9	1300 mm	51.2 in
	CC2.7	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	2640 mm	103.9 in
	CB2.7	2540 mm	100.0 in
	CB2.9	2490 mm	98.0 in
	CC2.7	2540 mm	100.0 in
	Outside Turning Radius		
	CB2.5	3640 mm	143.3 in
	CB2.7	3740 mm	147.2 in
	CB2.9	3790 mm	149.2 in
	CC2.7	3740 mm	147.2 in

Service Refill Capacities		
Fuel Tank (total capacity)	55 L	14.37 gal
Water Spray Tank (total capacity)		
CB2.5, CB2.7, CB2.9	200 L	52.80 gal
CC2.7	160 L	42.24 gal
Emulsion Tank (total capacity) CC2.7 only	26 L	6.86 gal
Cooling System	8.3 L	2.19 gal
Engine Oil with Filter	6.3 L	1.66 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)

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® C1.7 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.

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

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 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	CB2.7	CB2.9	CC2.7
Steel	78.61%	71.73%	75.04%	64.19%
Iron	10.20%	12.05%	13.53%	9.47%
Mixed Metal	0.40%	4.87%	0.66%	1.86%
Fluid	1.55%	3.08%	1.44%	3.28%
Nonferrous Metal	4.00%	2.79%	4.54%	5.10%
Plastic	2.02%	1.59%	1.32%	2.30%
Rubber	0.43%	1.45%	0.40%	4.53%
Other	0.63%	1.25%	1.00%	4.13%
Uncategorized	1.03%	1.15%	0.96%	4.12%
Mixed Nonmetallic	0.00%	0.03%	0.00%	0.00%
Mixed-Metal and Nonmetal	1.13%	0.01%	1.11%	1.00%
Total	100%	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%	96%	96%	95%

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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QEHQ2652-04 (09-2023)
Build Number: 03A
(Tier 4 Final, Stage V)