



# Cat<sup>®</sup>

## CB1.7 and CB1.8

### *Utility Compactors*

***The Cat<sup>®</sup> CB1.7 and CB1.8 utility compactors are well suited for smaller applications such as driveways, walking paths, patchwork and landscaping. They are designed with industry leading features and performance to get the job done.***

#### **Simple Operation**

- Ergonomic operating environment with vandal protection
- Easy access due to logically placed handles and lower platform height
- Simple operation with mechanical propel and speed control levers

#### **Efficient Performance**

- Compact size for excellent maneuverability in tight spaces
- Excellent drum edge visibility enhances control for better coverage and compaction results
- Industry-leading compaction force delivers outstanding results
- Industry-leading water tank capacity of 145 L (38 gal) sized for less fills throughout the day
- Single-point lift option for trench work and alternative transport options

#### **Optimized Power**

- Powerful Cat<sup>®</sup> C1.1 engine; single source supplier for parts, service, and support
- Cooling system capability of up to 49° C (120° F) for good performance in harsh environments
- Quickly move around the job site with maximum travel speed of 8.6 kph (5.3 mph) for good mobility

#### **Reliable and Easy to Maintain**

- 3 year / 3000 hour vibratory drum service interval
- Reliable triple filtration design for the water spray system
- 500 hour oil change interval to reduce maintenance time and costs
- Robust hitch design easily supports single lift point option
- ProductLink<sup>™</sup> for remote monitoring of machine location and status
- Customer Value Agreements available to ensure maximum uptime



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## Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
<b>OPERATOR ENVIRONMENT</b>			<b>POWERTRAIN</b>		
Adjustable Suspension Seat w/ Operator Presense Switch		✓	Air Cleaner, Dual Element	✓	
ROPS Folding	✓		Engine Belt Guard	✓	
ROPS Fixed		✓	<b>TECHNOLOGY</b>		
Operator Console w/ Emergency Stop, Simple Rocker Switches, and Machine Warning Indicator Lights	✓		Telematics - ProductLink™	✓	
Dual 12-volt Power Outlet	✓		<b>ELECTRICAL</b>		
Horn, Backup Alarm	✓		Working Lights	✓	
<b>COMPACTION SYSTEM</b>			Battery Disconnect		✓
Folding Scrapers	✓		Roading Lights		✓
Vibe Selection - Front, Rear, or both	✓		Rotating Amber Beacon		✓
Pressurized, Triple-Filtration Spray System	✓		Light Guards		✓
			<b>OTHER</b>		
			Vandal Protection - lockable hood and controls cover	✓	
			Machine Lift and Tiedowns	✓	
			Single Point Lift		✓

Utility Compactor Application Guide											
			0 - 1.8 Tons		1.8 - 3 Tons				3 - 5 Tons		
Material	Application	Layer Thickness mm (in)	CB1.7	CB1.8	CB2.5 CB2.5 GC	CB2.7 CB2.7 GC	CC2.7 CC2.7 GC CC2.6	CB2.9	CB4.0 CB34B	CB4.4 CB36B	CC4.0 CC34B
			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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## Technical Specifications

### Engine - Powertrain

Engine Model	Cat® C1.1T	
Emissions	U.S. EPA Tier 4 Final EU Stage V	
Number of Cylinders	3	
Rated Speed	2800 rpm	
Engine Power ISO 14396:2002	18.4 kW	24.7 hp
Net Power ISO 9249:2007	17.8 kW	23.9 hp
Exhaust gas aftertreatment type	Muffler	

### Machine Performance

Maximum Machine Speed	8.6 km/hr	5.3 mph
Theoretical Gradeability (no vibs) <sup>2</sup>		
CB1.7	36%	
CB1.8	33%	

<sup>2</sup> 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	57 Hz	3420 vpm
Amplitude		
CB1.7	0.50 mm	0.019 in
CB1.8	0.47 mm	0.018 in
Maximum Centrifugal Force	13.6 kN	3057 lb/ft

### Electrical

System Voltage	12 v
Battery Capacity	650 CCA
Alternator	40 Amp

### Miscellaneous

Articulation Angle	32°
Oscillation Angle	8°

### Service Refills

Fuel Tank (total capacity)	30 L	7.9 gal
Water Spray Tank (total capacity)	145 L	38 gal
Cooling System	3.9 L	1.0 gal
Engine Oil w/ Filter	4.4 L	1.1 gal
Hydraulic Tank (service refill)	34 L	8.9 gal

## Technical Specifications

### Machine Weights<sup>4</sup>

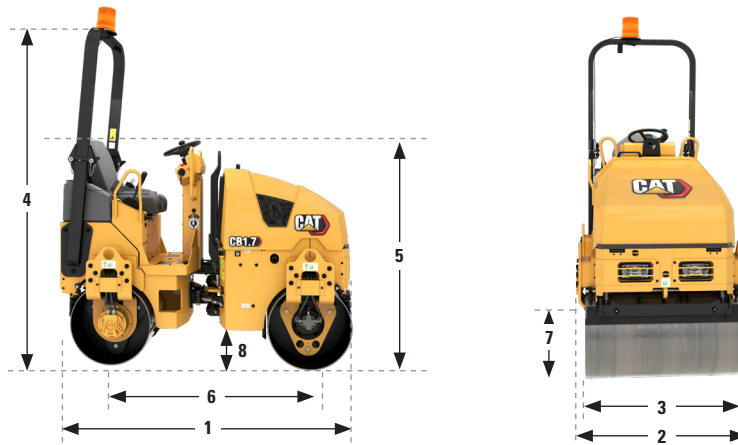
Standard Machine Operating Weight with ROPS			
CB1.7	1605 kg	3538 lb	
CB1.8	1735 kg	3825 lb	
Maximum Machine Weight <sup>5</sup>			
CB1.7	1808 kg	3985 lb	
CB1.8	1953 kg	4305 lb	
Static Linear Load			
CB1.7	9.4 kg/cm	72 lb/in	
CB1.8	9.1 kg/cm	63 lb/in	

<sup>4</sup> Operating weights include coolant, lubricants, full fuel tank, 50% water, and 80 kg (176 lb) operator.

<sup>5</sup> Maximum machine weight includes all options, full fluids, and 80 kg (176 lb) operator.

### Dimensions

1	Overall Length	2040 mm	80 in
2	Overall Width		
	CB1.7	1012 mm	40 in
	CB1.8	1112 mm	44 in
3	Drum Width		
	CB1.7	900 mm	35 in
	CB1.8	1000 mm	39 in
4	Overall Height		
	w/ ROPS/FOPS	2400 mm	94.5 in
5	Transport Height w/ Foldable ROPS	1630 mm	64 in
6	Wheelbase	1376 mm	54 in
7	Curb Clearance	403 mm	16 in
8	Ground Clearance	251 mm	10 in
	Inside Turning Radius		
	CB1.7	1950 mm	77 in
	CB1.8	1900 mm	75 in
	Outside Turning Radius		
	CB1.7	2850 mm	112 in
	CB1.8	2900 mm	114 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](http://www.caterpillar.com/en/company/sustainability.html).

### ENGINE

- The Cat C1.1 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.

### 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:

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Operator Sound Pressure Level (ISO 6396:2008) – 93 dB(A)

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Exterior Sound Power Level (ISO 6395:2008) – 106 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 systems balances power and efficiency
  - Extended maintenance intervals reduce fluid and filter consumption
  - Variable speed cooling fan helps reduce fuel consumption



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