



# Cat<sup>®</sup> CB15

## Asphalt Compactor

**The new Cat<sup>®</sup> CB15 asphalt compactor offers enhancements that simplify operation, provide versatility, and deliver excellent fuel economy. Rotary dials, oscillatory vibration, and 360° seating make this compactor a perfect match for urban streets, rural roads, highways, interstates and other high-production applications.**

### Simple to Operate, Easy to Learn

- Innovative hand-wheel steering technology delivers precise control and good forward visibility
- Easily activate the vibratory system, water spray system and drum offset with the multi-function propel handle
- Machine functions with LED indicators have been independently grouped for simplified control and quick activation
- Dual side access on ROPS/Canopy machines provide operators with flexibility to mount and dismount the machine (U.S. and Canada only)

### Better Fuel Economy

- Get up to 10% better fuel economy with the Cat<sup>®</sup> C4.4 engine and standard Eco-mode
- The C4.4 engine provides 106 kW (142 hp) of power and meets U.S. EPA Tier 4 Final and EU Stage V emissions
- Unique Eco-mode design modifies engine speed based on load requirements; high amplitude vibration utilizes higher engine speed, while static rolling conserves fuel and operates at low engine speed with even lower sound levels

### Easy Vibratory System Set-up

- Five amplitude system utilizes a single frequency with five distinct amplitudes that provide excellent performance on thick lifts and rigid mix designs
- Versa Vibe™ vibratory system creates a 2-in-1 machine with four amplitudes and two frequencies; two settings for lighter hitting and higher working speeds on thin lifts; and two settings for heavier hitting and slower speeds on thick lifts and challenging mix designs
- 2-amplitude/2-frequency vibratory system automatically optimizes amplitude and frequency with a single switch for simple thin/thick lift operation
- Reach compaction goals with automatic speed control; green indicators help ensure travel speed matches correct impact spacing

### Compaction Options Include Oscillation

- Oscillatory vibration on the rear drum combined with standard vertical vibration front drum delivers both performance and versatility
- Oscillation system utilizes proven pod-style eccentric weight technology developed by Caterpillar
- 2 year/2000 hour service interval helps maximize uptime and limit maintenance costs.
- Durable power-transmission belt delivers 2-times the load capacity of timing belt systems leading to extended life
- Standard drum shells offer exceptional long-term life on a variety of mix designs and delivers outstanding mat texture, density, and smoothness.



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## Ensure Mat Coverage with Compaction Control

- Pass-count and Temperature Mapping combines infrared temperature sensors with GPS mapping to keep the operator informed of current asphalt temperatures, machine position, pass-count, and layer coverage
- Compaction Meter Value (CMV) utilizes a drum-mounted accelerometer to measure the combined stiffness of the asphalt layer, base layer, and sub-base layer to indicate road structure quality beneath the surface
- Machine to Machine communication helps keep rolling patterns in sync by sharing mapped data such as CMV, temperature mapping, and pass count coverage between multiple machines

## Prevent Build-Up, Keep the Drum Surfaces Wet

- High capacity water tank provides long duration between fills
- Dual water pumps provide back-up capability and alternate with direction of travel to maximize service life
- Triple filtration prevents clogs with filters located at the fill point, water pumps, and spray nozzles
- Integrated freeze protection kit (optional) provides protection in cold temperatures when machine is not in use

## Boost Performance with Enhanced Visibility

- Optimize sight lines with 360° seating option; always face the direction of travel
- LED Lighting delivers excellent job site illumination while conserving energy
- Night-lighting option provides additional illumination to the ROPS/Cab, drum edges, and drum surfaces

## Product Link™

- Make timely, fact-based decisions to maximize efficiency, improve productivity, and lower owning and operating costs
- Easily track location, machine hours, fuel usage, and idle time
- Diagnostic codes are made available through online web applications
- Remote flash works around your schedule to ensure your machine's software is up to date for optimal performance

## Standard and Optional Equipment

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

	Standard	Optional
<b>OPERATING ENVIRONMENT</b>		
180° seat positioning w/sliding station	✓	
360° seat positioning w/sliding station		✓
Adjustable armrests	✓	
Platform ROPS/FOPS	✓	
Propel lever with 4-button control	✓	
Steering wheel - fixed position, left side	✓	
Steering wheel - elevated position, left side		✓
Suspension seat - no heat	✓	
Suspension seat - with heat		✓
Seat headrest		✓
Seat belt - 76 mm (3") high visibility	✓	
Vandalism protection	✓	
<b>TECHNOLOGY</b>		
Infrared asphalt temperature sensors		✓
CMV accelerometer - front drum		✓
GNSS Mapping - Temperature and Pass-count		✓
Machine to Machine Communication		✓
Product Link™ PLE743	✓	
Product Link PLE783		✓
Remote Flash	✓	
Remote Troubleshooting	✓	
<b>POWERTRAIN</b>		
Cat C4.4, 4-cylinder	✓	
Hitch - offset		✓
Hydraulic oil - biodegradeable		✓
<b>ELECTRICAL SYSTEM</b>		
150 amp alternator	✓	
12-volt charging system	✓	
Automotive-type fuse system	✓	
Batteries - maintenance-free	✓	
Cat Electronic Technician (Cat ET)	✓	
Remote start/charge receptacle	✓	

	Standard	Optional
<b>VIBRATORY SYSTEM</b>		
Five amplitude		✓
Two amplitude/two frequency - both drums		✓
Versa Vibe™ - both drums		✓
Two amplitude/two frequency w/Oscillation		✓
Versa Vibe w/Oscillation		✓
Mats - cocoa		✓
Mats - water distribution		✓
Freeze protection - water spray system		✓
Rear drum oscillation kit - field installed drum		✓
<b>SERVICE AND MAINTENANCE</b>		
Maintenance-free Hitch	✓	
3 yr/3000 hr conventional vibratory system service interval	✓	
2 yr/2000 hr Oscillatory vibration system service interval	✓	
Grouped filters with ground level access	✓	
Remote access drains	✓	
Sampling ports for Scheduled Oil Sampling (S-O-S <sup>SM</sup> )	✓	
Sight Gauges	✓	
- Engine coolant	✓	
- Hydraulic oil	✓	
<b>SAFETY</b>		
Alarm, back-up	✓	
Horn, warning (front & rear)	✓	
LED Working Lights	✓	
LED Working Lights with turn signals		✓
LED Rooding Lights		✓
Mirror package		✓
Steps, front drum fuel refill	✓	
Steps, rear drum water spray refill		✓
Warning, LED safety beacons	✓	

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## Technical Specifications

### PowerTrain

Engine Model	Cat C4.4	
Rated Power @ 2400 rpm	106 kW	142 hp
Global Emissions: U.S. EPA Tier 4 Final, U.S. EPA Tier 3, EU Stage IIIA, and China Stage III		
Speed – Operating	0-7 km/h	0-4 mph
Speed – Travel	13 km/h	0-8 mph
Gradeability	30%	

### Machine Weight

Operating Weight – ROPS	13 135 kg	28,958 lb
Maximum Weight – ROPS	13 785 kg	30,391 lb
Static Linear Load – ROPS	32 kg/cm	181 lb/in
Operating Weight – Cab	13 535 kg	29,840 lb
Maximum Weight – Cab	14 185 kg	31,273 lb
Static Linear Load – Cab	33 kg/cm	186 lb/in

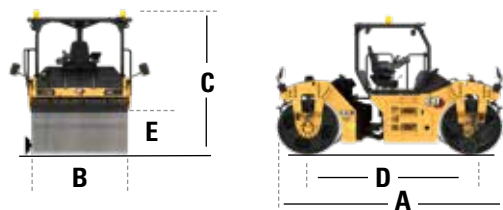
Operating Weights are approximate and include ROPS, Cab, coolant, lubricants, full fuel tank, 50% water and 75 kg (165 lb) operator.

### Service Refill Capacities

Fuel Tank	250 L	66 gal
Water Spray Tank	1000 L	264 gal
Cooling System	21 L	5.5 gal
Engine Oil	8.1 L	2.1 gal
Hydraulic Tank	36 L	9.5 gal
DEF Tank	7.9 L	2 gal

### Dimensions

A	Overall Length	4740 mm	15' 6"
B	Overall Width	2325 mm	7' 8"
	Drum Width	2130 mm	84"
	Drum Offset	170 mm	6"
	Drum Shell Thickness	20 mm	0.79"
	Drum Diameter	1300 mm	51"
C	Height at ROPS/FOPS	3068 mm	10'
	Height at Cab	3068 mm	10'
D	Wheelbase	3450 mm	11' 3"
	Ground Clearance	292 mm	11.5"
E	Curb Clearance	723 mm	28"



### Vibratory Systems

#### Versa Vibe™

Frequency – HZ (vpm)	42	2520
Amplitude – mm (in) Drum setting H	0.67	0.030
Drum setting L	0.57	0.026
Centrifugal Force – kN (lbf) Drum setting H	88.8	19,963
Drum setting L	75.4	16,950
Frequency – HZ (vpm)	63.3	3800
Amplitude – mm (in) Drum setting H	0.34	0.016
Drum setting L	0.26	0.012
Centrifugal Force – kN (lbf) Drum setting H	103.3	23,222
Drum setting L	77.5	17,422

#### Oscillation – Rear Drum

Frequency – HZ (vpm)	40	2400
Amplitude – mm (in)	1.29	0.051

#### 5-Amplitude

Frequency – HZ (vpm)	42	2520
Amplitude – mm (in) high	1.03	0.041
medium high	0.95	0.037
medium	0.83	0.033
medium low	0.65	0.026
low	0.41	0.016
Centrifugal Force – kN (lbf) (high)	138	31,069
Centrifugal Force – kN (lbf) (low)	55.2	12,409

#### 2-Amplitude, 2-Frequency (Not available in U.S. or Canada)

Frequency – HZ (vpm)	42	2520
Amplitude – mm (in)	0.76	0.030
Centrifugal Force – kN (lbf)	87.2	19,603
Frequency – HZ (vpm)	63.3	3800
Amplitude – mm (in)	0.29	0.011
Centrifugal Force – kN (lbf)	76.3	17,152

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