Cat® CB15

Asphalt Compactor

The new Cat® 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® 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 emission standards, or emits equivalent to U.S. EPA Tier 3, EU Stage IIIA
- 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.

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
OPERATING ENVIRONMENT		
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	✓	
TECHNOLOGY		
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	✓	
POWERTRAIN		
Cat® C4.4, 4-cylinder	✓	
Hitch - offset		✓
Hydraulic oil - biodegradeable		✓
ELECTRICAL SYSTEM		
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
VIBRATORY SYSTEM		
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		✓
SERVICE AND MAINTENANCE		
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℠)	✓	
Sight Gauges	✓	
- Engine coolant	✓	
- Hydraulic oil	✓	
SAFETY		
Alarm, back-up	✓	
Horn, warning (front & rear)	✓	
LED Working Lights	✓	
LED Working Lights with turn signals		✓
LED Roading Lights		✓
Mirror package		✓
Steps, front drum fuel refill	✓	
Steps, rear drum water spray refill		✓
Warning, LED safety beacons	✓	

Cat® CB15 Asphalt Compactor

Technical Specifications

PowerTrain		
Engine Model	Cat C4.4	
Engine power @ 2400 rpm (ISO 14396-2002)	106 kW	142 hp
Meets U.S. EPA Tier 4 Final emission standards, or emits equivalent to U.S. EPA Tier 3, EU Stage IIIA		
Speed – Operating	0-7 km/h	0-4 mph
Speed – Travel	13 km/h	0-8 mph
Gradeability	30%	

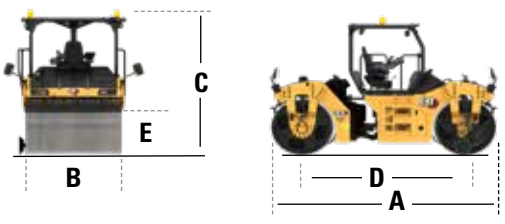
Machine Weight		
Operating Weight – ROPS	13 135 kg	28,958 lb
Maximum Weight – ROPS	13 785 kg	30,391 lb
Static Linear Load – ROPS	32 kg/cm	181 lb/in
Operating Weight – Cab	13 535 kg	29,840 lb
Maximum Weight – Cab	14 185 kg	31,273 lb
Static Linear Load – Cab	33 kg/cm	186 lb/in

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	0.026
	Drum setting L	0.57	0.022
Centifugal 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	0.013
	Drum setting L	0.26	0.010
Centifugal 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



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® C4.4 engine is available in configurations that meet U.S. EPA Tier 4 Final emission standards, or emits equivalent to U.S. EPA Tier 3, EU Stage IIIA.
- Cat U.S. EPA Tier 4 Final 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
- Cat engines that emit equivalent to U.S. EPA Tier 3 or EU Stage IIIA, are compatible with diesel fuel blended with the following lower-carbon intensity fuels up to:
  - ✓ 100% 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.*
*** For use of blends higher than 20% biodiesel, consult your Cat dealer.*

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, engines meeting U.S. EPA Tier 4 Final or emits equivalent to U.S. EPA Tier 3, EU Stage IIIA:

Operator Sound Pressure Level – 83 dB(A) European Directive 2005/88/EC, ISO 6396:2008, EN 500-1, and EN 500-4
Exterior Sound Power Level – 87 dB(A) European Directive 2005/88/EC, ISO 6396:2008, EN 500-1, and EN 500-4

- 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.
  – Eco-mode operates at lower engine rpm to reduce fuel consumption
  – Variable speed, hydraulic fan helps reduce power demand
  – Auto-idle shutdown conserves fuel
  – Compaction control option helps increase operator efficiency
  – Extended maintenance intervals reduce fluid and filter consumption