



Cat[®] CB13

Asphalt Compactor

The new Cat[®] CB13 asphalt compactor offers enhancements that simplify operation, provide versatility, and deliver excellent fuel economy. Rotary dials, oscillatory vibration (option), and 360° seating (option) 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 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

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
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 SM)	✓	
Sight Gauges	✓	
- Engine coolant	✓	
- Hydraulic oil	✓	
SAFETY		
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	12 500 kg	27,557 lb
Maximum Weight – ROPS	13 150 kg	28,991 lb
Static Linear Load – ROPS	33 kg/cm	183 lb/in
Operating Weight – Cab	12 900 kg	28,440 lb
Maximum Weight – Cab	13 550 kg	29,873 lb
Static Linear Load – Cab	34 kg/cm	189 lb/in

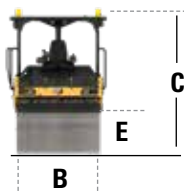
Operating Weights are approximate and include ROPS, Cab, coolant, lubricants, full fuel tank, 50% water and 75 kg (165 lb) operator.

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	2000 mm	79"
	Drum Offset	170 mm	6"
	Drum Shell Thickness	17 mm	0.67"
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	0.78
	Drum setting L	0.66
Centrifugal Force – kN (lbf)	Drum setting H	88.8
	Drum setting L	75.4

Frequency – HZ (vpm)	63.3	3800
Amplitude – mm (in)	Drum setting H	0.40
	Drum setting L	0.30
Centrifugal Force – kN (lbf)	Drum setting H	103.3
	Drum setting L	77.5

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	0.96
	medium high	0.82
	medium	0.66
	medium low	0.49
low	0.30	0.012
Centrifugal Force – kN (lbf) (high)	110	24,728
Centrifugal Force – kN (lbf) (low)	34.7	7,800

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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