



Cat[®] CB13

TANDEM VIBRATORY ROLLER

Top Features

The CB13 is a 13 metric ton vibratory compactor equipped with 2000 mm (79") drums. This model delivers excellent mat densities, good visibility and comfort, fuel efficiency with Eco-mode, and an industry-leading water spray system.

- **Exceptional Visibility and Control** with hand-wheel steering, 8-button touch-pad machine control, LCD display, and 360° seating option help keep operators engaged.
- **Smooth and Quiet Powertrain** with C4.4 engine that meets emissions equivalent to U.S. EPA Tier III, EU Stage IIIA and China Stage III. Eco-mode, and the auto-vibe features help provide reliable control.
- **Simple Vibratory Systems** include an optional rear drum oscillation system, the high-impact five amplitude system, two amplitude/two frequency system, or the highly versatile Versa-Vibe system. The rear-drum Oscillation System can be combined with any of the fore-mentioned systems.
- **Oscillatory Vibration System** combines standard vibration on the front drum with oscillation technology on the rear drum. The oscillation system performs effectively on thin lifts and near sensitive structures such as buildings, bridge decks, and over underground utilities.
- **Machine to Machine Communication** provides real time progress of multiple machines. It allows operators to monitor each others rolling pattern and continue the pass where it was left off. The system greatly enhances nighttime operation when low lighting conditions exist.
- **Cat Compaction Control** keeps the operator informed for higher performance and efficiency. Infrared temperature sensors combined with mapping keep the operator informed of when optimal temperatures exist and where compaction has taken place. Temperature Mapping records data for future analysis, while Pass-Count Mapping keeps the operator informed of where mat coverage has taken place and the number of passes made.

Specifications

Weights

CB13 Operating Weight w/ROPS/FOPS/CANOPY

Standard machine	12 500 kg	27,557 lb
Maximum machine	13 150 kg	28,991 lb
Static linear load	33 kg/cm	184 lb/in

CB13 Operating Weight w/ROPS/FOPS/CAB

Standard machine	12 900 kg	28,440 lb
Maximum machine	13 550 kg	29,873 lb
Static linear load	34 kg/cm	189 lb/in

Service Refill Capacities

Fuel Tank	250 L	66 gal
Fuel Usage (50% duty)	12 hours	
Cooling System	21 L	5.5 gal
Engine Oil	8.1 L	2.1 gal
Hydraulic Tank	36 L	9.5 gal
Water Tank	1000 L	264 gal

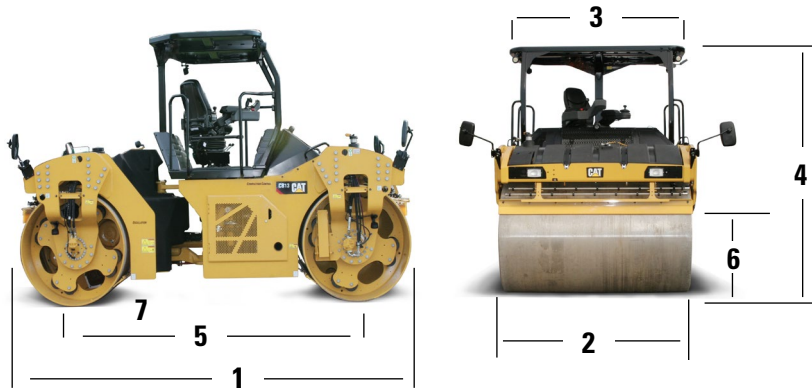
Engine – Powertrain

Engine Model	Cat C4.4 w/ACERT™ Technology		
	<i>* Meets emissions equivalent to U.S. EPA Tier III, EU Stage IIIA, and China Stage III</i>		
Gross Power:	106 kW	142 hp	144 metric hp
Number of Cylinders	4		
Rated Speed	2200 rpm		
Eco-mode	Variable rpm		
Bore	105 mm	4.13"	
Stroke	127 mm	5"	
Speed Ranges:			
Low	0 - 7 km/hr	4.5 mph	
High	0 - 13 km/hr	8 mph	
Steering (Inside)	4.33 m	14' 2"	
Articulation Angle	36°		
Hitch Oscillation	±6°		
Gradeability (Theoretical) No Vibration	38%		



CB13 Tandem Vibratory Roller

Dimensions



1 Overall Length	4742 mm	15' 6"
2 Drum Width	2000 mm	79"
Drum Offset	170 mm	6"
Drum Shell Thickness	17 mm	0.67"
Drum Diameter	1300 mm	51"
3 Overall width at ROPS	2325 mm	7' 8"
4 Height at ROPS/FOPS/Cab	3068 mm	10'
w/Product Link™	3090 mm	10' 2"
5 Wheelbase	3450 mm	11' 3"
6 Curb Clearance	723 mm	28"
7 Ground Clearance	292 mm	11.5"

Vibratory Systems

Five Amplitude

Frequency – Hz (vpm)	42	(2520)
Amplitude – mm (in)	high	0.96 (0.038)
	medium high	0.82 (0.032)
	medium	0.66 (0.026)
	medium low	0.49 (0.019)
	low	0.30 (0.012)
Centrifugal Force (high) – kN (lbF)	110.0	(24,728)
Centrifugal Force (low) – kN (lbF)	34.7	(7,800)

Versa-Vibe™

Frequency – Hz (vpm)	42	(2520)
Amplitude – mm (in)	high	0.78 (0.030)
	low	0.66 (0.026)
Centrifugal Force (high) – kN (lbF)	88.8	(19,963)
Centrifugal Force (low) – kN (lbF)	75.4	(16,950)
Frequency – Hz (vpm)	63.3	(3800)
Amplitude – mm (in)	high	0.40 (0.016)
	low	0.30 (0.012)
Centrifugal Force (high) – kN (lbF)	103.3	(23,222)
Centrifugal Force (low) – kN (lbF)	77.5	(17,422)

Two Amplitude, Two Frequency

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

Optional Equipment

OPTIONAL EQUIPMENT:

- 360° Rotating Seat
- Accelerometer Ready Kit
- Air Conditioning
- Air Suspension Seat w/Heat
- Bio-Degradeable Oil
- Cat Compaction Control
 - Compaction Meter Value
 - Infrared Temperature Gauge
 - Machine to Machine Communication
 - Pass-count Mapping
 - Temperature Mapping
- Drum Covers
- Edge Cutter
- Freeze Protection Kit
- Halogen Lights w/Drum Edge Lights
- Heated Seat
- High Intensity Discharge (HID) Lights w/Drum Edge Lighting
- LED Lights
- Mirrors
- Offset Hitch
- Oscillatory Vibration
- Premium Water Spray Nozzles
- Product Link
- Roading Lights
- ROPS/FOPS Cab
- Two Amplitude/Two Frequency Vibratory System
- Versa Vibe Vibratory System
- Warning Beacon
- Water Distribution Mats (cocoa)
- Water Distribution Mats (rubber)

Oscillatory Vibration System – Rear Drum

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

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