



Cat[®] CB10

TANDEM VIBRATORY ROLLER

Top Features

The Cat[®] CB10 is a 10 ton roller with 1700 mm (67") tandem vibratory drums and excels on a variety of asphalt mix designs as well as other granular materials.

- **Versatile Vibratory Systems** include choice of Oscillation, 2-amplitude/2-frequency, 5-amplitude, and VERSA-Vibe™ systems. Multiple options available to match thick and thin lifts as well as various paving speeds.
- **Exceptional Visibility and Control** with handwheel steering technology, touch-pad machine functions, Eco-mode operation, and optional Compaction Control. This machine can be equipped with a Cab or ROPS/FOPS.
- **Smooth Operating Powertrain** with C4.4 engine that meets emissions equivalent to U.S. EPA Tier 3, EU Stage IIIA, China Stage III, and Brazil MAR-1.
- **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.
- **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.

Specifications

Weights

Operating Weight – w/ROPS/FOPS/CAB

Standard machine	9710 kg	21,407 lb
Maximum machine	10 510 kg	23,171 lb
Static linear load	28.5 kg/cm	160 lb/in

Operating Weight – w/ROPS/FOPS/CANOPY

Standard machine	9500 kg	20,945 lb
Maximum machine	10 235 kg	22,564 lb
Static linear load	27.8 kg/cm	156 lb/in

Service Refill Capacities

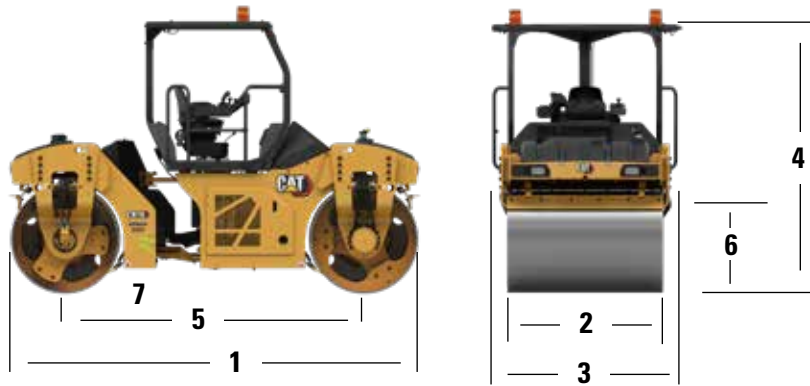
Fuel Tank	208 L	55 gal
Fuel Usage (50% duty)	12 hours	
Cooling System	22 L	5.8 gal
Engine Oil	9 L	2.4 gal
Hydraulic Tank	36 L	9.5 gal
Water Tank	800 L	211 gal

Engine – Powertrain

Engine Model	Cat C4.4	
Number of Cylinders	4	
Rated Speed	2200 rpm	
Bore	105 mm	4.13"
Stroke	127 mm	5"
Gross Power: Meets Tier 3, Stage IIIA, China Stage III, Brazil MAR-1	97 kW	130 hp (I), 131.8 hp (m)
Speed Ranges:		
Low	0 - 7 km/hr	4.3 mph
High	0 - 12 km/hr	7.5 mph
Gradeability (no vibe)		38°
Steering (Inside)	4.3 m	(14' 1")
Articulation Angle	35°	
Drum Offset	170 mm	(6")



CB10 Tandem Vibratory Roller



Dimensions

1 Overall Length	4565 mm	14' 9"
2 Drum Width	1700 mm	67"
Drum Offset	170 mm	6"
Drum Shell Thickness	17 mm	0.67"
Drum Diameter	1198 mm	47"
3 Overall width	1872 mm	6' 2"
4 Height at ROPS/FOPS	2982 mm	9' 9"
Height at Cab	2982 mm	9' 9"
5 Wheelbase	3300 mm	10' 10"
6 Curb Clearance	934 mm	37"
7 Ground Clearance	268 mm	10"

Vibratory Systems

2-Amplitude, 2-Frequency System

Frequency – Hz (vpm)	43/63.3	(2580/3800)
Amplitude – mm (in)	0.82 - 0.32	(0.032 - 0.012)
Centrifugal Force (high) – kN (lbF)	81.6	(18,344)
Centrifugal Force (low) – kN (lbF)	69.9	(15,714)

2-Amplitude, 2-Frequency System

Frequency – Hz (vpm)	43/53.3	(2580/3200)
Amplitude – mm (in)	0.82 - 0.32	(0.032 - 0.012)
Centrifugal Force (high) – kN (lbF)	81.6	(18,344)
Centrifugal Force (low) – kN (lbF)	49.6	(11,151)

Versa-Vibe System

Frequency – Hz (vpm)	43	(2580)
Amplitude – mm (in) high	0.86	(0.034)
low	0.72	(0.028)
Centrifugal Force (high) – kN (lbF)	87.6	(19,693)
Centrifugal Force (low) – kN (lbF)	72.9	(16,389)

Frequency – Hz (vpm)	63.3	(3800)
Amplitude – mm (in) high	0.39	(0.015)
low	0.26	(0.010)
Centrifugal Force (high) – kN (lbF)	86.7	(19,491)
Centrifugal Force (low) – kN (lbF)	58.2	(13,084)

Oscillatory Vibration System – Rear Drum

Frequency – Hz (vpm)	40	(2400)
Amplitude – mm (in)	1.12	(0.044)

5-Amplitude Vibratory System

Frequency – Hz (vpm)	43	(2580)
Amplitude – mm (in) – high	1.06	(0.042)
medium high	0.91	(0.036)
medium	0.73	(0.029)
medium low	0.54	(0.021)
low	0.34	(0.013)
Centrifugal Force (high) – kN (lbF)	107.0	(24,055)
Centrifugal Force (low) – kN (lbF)	34.6	(7,778)



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