



Cat[®] CB7

TANDEM VIBRATORY ROLLER

Top Features

The Cat[®] CB7 is a 7 ton roller with 1500 mm (59") tandem vibratory drums. It is available in solid or split drum models and excels on a variety of asphalt mix designs as well as other granular materials.

- **Exceptional Visibility and Control** with handwheel steering technology, touch-pad machine functions, Eco-mode operation, and automatic speed 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.
- **Versatile Vibratory Systems** include choice of two amplitude/two frequency or 5-amplitude systems. Versatile systems for both thick and thin lifts as well as varying paving speeds.
- **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 analysis, while Pass-Count Mapping keeps the operator informed of where mat coverage has taken place and the number of passes made.
- **Industry-Leading Water Spray System** features a single fill point, dual water pumps, triple filtration, intermittent operation and high capacity for optimal performance. An optional freeze protection kit offers protection in cold temperatures.
- **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	8190 kg	18,056 lb
Maximum machine	8940 kg	19,709 lb
Static linear load	26.9 kg/cm	151 lb/in

Operating Weight – w/ROPS/FOPS/CANOPY

Standard machine	7990 kg	17,615 lb
Maximum machine	8720 kg	19,224 lb
Static linear load	26.3 kg/cm	147 lb/in

Service Refill Capacities

Fuel Tank	208 L	55 gal
Fuel Usage (50% duty)	12 hours	
Cooling System	18 L	4.7 gal
Engine Oil	9 L	2.4 gal
Hydraulic Tank	36 L	9.5 gal
Water Tank	700 L	185 gal

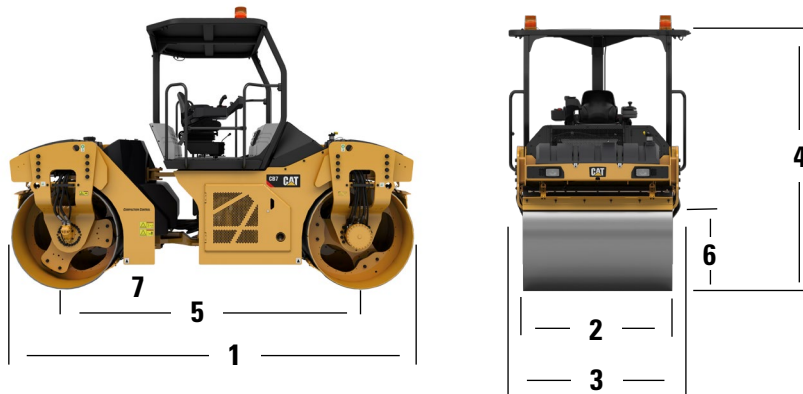
Engine – Powertrain

Engine Model	Cat C4.4	
Number of Cylinders	4	
Rated Speed	2200 rpm	
Bore	105 mm	4.1"
Stroke	127 mm	5"
Gross Power: Meets Tier 3, Stage IIIA, China Stage III, Brazil MAR-1	82 kW	110 hp (l), 111.5 hp (m)
Speed Ranges:		
Low	0 - 7 km/hr	4.3 mph
High	0 - 12 km/hr	7.5 mph
Gradeability (no vibrate)		35°
Steering (Inside)	4.4 m	(14' 8")
Articulation Angle	35°	
Hitch Oscillation	±6°	



CB7 Tandem Vibratory Roller

Dimensions



1 Overall Length	4565 mm	14' 5"
2 Drum Width	1500 mm	59"
Drum Offset	170 mm	6"
Drum Shell Thickness	17 mm	0.67"
Drum Diameter	1108 mm	44"
3 Overall width	1670 mm	5' 5"
4 Height at ROPS/FOPS	2980 mm	9' 9"
Height at Cab	2980 mm	9' 9"
5 Wheelbase	3300 mm	10' 10"
6 Curb Clearance	898 mm	35"
7 Ground Clearance	226 mm	9"

Vibratory Systems

2-Amplitude, 2-Frequency System

Frequency – Hz (vpm)	53.3/63.3	(3200/3800)
Amplitude – mm (in)	0.65 - 0.31	(0.026 - 0.012)
Centrifugal Force (high) – kN (lbF)	78.3	(17,603)
Centrifugal Force (low) – kN (lbF)	53.3	(11,982)

2-Amplitude, 2-Frequency System (CE)

Frequency – Hz (vpm)	50/57	(3000/3420)
Amplitude – mm (in)	0.65 - 0.31	(0.026 - 0.012)
Centrifugal Force (high) – kN (lbF)	68.8	(15,467)
Centrifugal Force (low) – kN (lbF)	43.2	(9,712)

5-Amplitude System

Frequency – Hz (vpm)	53.3	(3200)
Amplitude – mm (in)		
high	0.64	(0.025)
medium high	0.56	(0.022)
medium	0.45	(0.018)
medium low	0.35	(0.014)
low	0.25	(0.010)
Centrifugal Force (high) – kN (lbF)	76.9	(17,288)
Centrifugal Force (low) – kN (lbF)	30.2	(6,789)

Standard and Optional Equipment

STANDARD EQUIPMENT:

- 5-Amplitude Vibratory System
- 700 L (185 gal) Water Tank Capacity
- 12-Volt Electrical System
- 150 Amp Alternator
- Locking Engine Compartment
- ROPS/FOPS Platform
- Sealed Pod Vibratory System
- Suspension Seat
- 2-Speed Hydrostatic Transmission
- Triple Filtered Water Spray System
- Working Lights

OPTIONAL EQUIPMENT:

- Air Conditioning
- Air Suspension Seat w/Heat
- Cat Compaction Control (Temperature and Pass-Count Mapping)
- CMV Sensor
- Edge Cutter
- Freeze Protection Kit
- Halogen Lights w/Drum Edge Lights
- High Ambient Cooling System
- High Intensity Discharge (HID) w/ Drum Edge Lighting
- LED Lighting
- Machine to Machine Communication
- Mirrors
- Product Link
- ROPS/FOPS Cab
- Roading Lights
- Temperature Gauge (single sensor)
- 2 Amplitude, 2 Frequency Vibratory System
- Water Distribution Mats (cocoa)
- Water Distribution Mats (rubber)
- Warning Beacon



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