



Cat[®] CB15, CB16 TANDEM VIBRATORY ROLLERS

Top Features

The CB15, and CB16 are 15 and 16 metric ton vibratory compactors with 2130 mm (84") drums. These large models deliver excellent mat densities, good visibility and comfort, fuel efficiency with Eo-mode, and an industry-leading water spray system.

- **Exceptional Visibility and Control** with hand-wheel steering, touch-pad machine functions, 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 3, EU Stage IIIA, and China Stage III standards. Eco-mode and the auto-vibe features help provides 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

CB15 Operating Weight with ROPS/FOPS/CANOPY

Standard machine	13 135 kg	28,958 lb
Maximum machine	13 785 kg	30,391 lb
Static linear load	32 kg/cm	181 lb/in

CB15 Operating Weight with ROPS/FOPS/CAB

Standard machine	13 535 kg	29,840 lb
Maximum machine	14 185 kg	31,273 lb
Static linear load	33 kg/cm	186 lb/in

CB16 Operating Weight with ROPS/FOPS/CANOPY

Standard machine	14 488 kg	31,941 lb
Maximum machine	15 538 kg	34,255 lb
Static linear load	36 kg/cm	204 lb/in

CB16 Operating Weight with ROPS/FOPS/CAB

Standard machine	14 950 kg	32,959 lb
Maximum machine	15 600 kg	34,392 lb
Static linear load	37 kg/cm	205 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

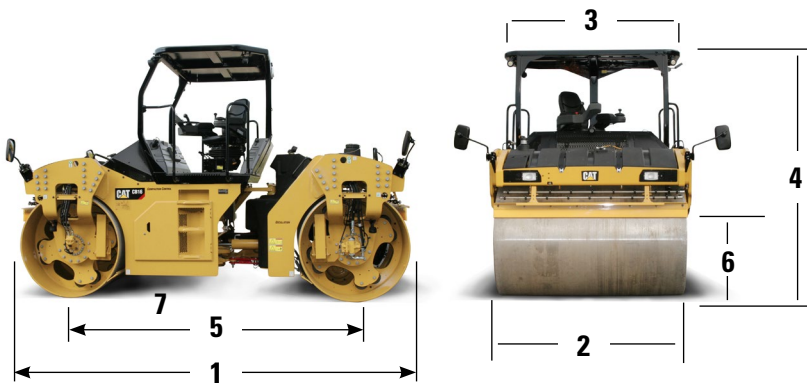
Engine – Powertrain

Engine Model	Cat C4.4 with ACERT [™] Technology	
	<i>* Meets emissions equivalent to U.S. EPA Tier 3, EU Stage III, and China Stage III standards.</i>	
Gross Power:	106 kW	142 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)	4.265 m	(14')
Articulation Angle	36°	
Hitch Oscillation	±6°	
Gradeability (Theoretical) No Vibration		
CB15	34%	
CB16	31%	



CB15, CB16 Tandem Vibratory Rollers

Dimensions



1 Overall Length	4742 mm	15' 6"
2 Drum Width	2130 mm	84"
Drum Offset	170 mm	6"
Drum Shell Thickness	20 mm	0.79"
Drum Diameter	1300 mm	51"
3 Overall width at ROPS	2325 mm	7' 8"
4 Height at ROPS/FOPS/Cab with Product Link™	3068 mm	10'
	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	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 (high) – kN (lbF)	138.2	(31,069)
Centrifugal Force (low) – kN (lbF)	55.2	(12,409)

Versa-Vibe™

Frequency – Hz (vpm)	42	(2520)
Amplitude – mm (in)	high	0.67 (0.030)
	low	0.57 (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	0.34 (0.016)
	low	0.26 (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 (CMV)
 - 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 System
- Premium Water Spray Nozzles
- Product Link
- Rooding 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)	1.23	(0.049)

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