



# Cat® CD8

## DRUM-STEER VIBRATORY ROLLER

### Top Features

The Cat® CD8 is an 8 ton drum-steer roller with 1500 mm (59") tandem vibratory drums. It offers excellent visibility, simple vibratory selection, wide mat coverage, and is available in solid or split drum models. These machines excel 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 C3.4B engine that meets U.S EPA Tier 4 Interim and EU Stage IIIB emissions standards. The split drum design delivers superior mat quality and smooth performance when turning. Four steering modes provide excellent maneuverability, while the large drum offset expands mat coverage. The traction control system automatically actuates and delivers a balanced torque to each drum.
- **Versatile vibratory performance** delivered with two amplitude, two frequency vibratory system that automatically matches frequency and amplitude at the flip of a switch. Easily adjustable for thin and thick lift applications.
- **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 temperatures for data 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 dual water pumps, triple filtration, intermittent operation and high capacity for optimal performance. An optional freeze protection kit offers protection in cold temperatures.
- **Unmatched Uptime** with Eco-mode operation conserves fuel, while oil-bath lubrication and vibratory drum service interval extends operation and minimizes life-time operating costs.

### Specifications

#### Weights

##### Operating Weight – Split Drum w/ROPS/FOPS/CAB

Standard machine	8390 kg	18,497 lb
Maximum machine	9450 kg	20,834 lb
Static linear load	27.9 kg/cm	170 lb/in

##### Operating Weight – Solid Drum w/ROPS/FOPS/CAB

Standard machine	7400 kg	16,314 lb
Maximum machine	7980 kg	17,593 lb
Static linear load	24.5 kg/cm	150 lb/in

##### Operating Weight – Split Drum w/ROPS/FOPS/CANOPY

Standard machine	8190 kg	18,056 lb
Maximum machine	9220 kg	20,327 lb
Static linear load	27.2 kg/cm	166 lb/in

##### Operating Weight – Solid Drum w/ROPS/FOPS/CANOPY

Standard machine	7200 kg	15,873 lb
Maximum machine	7760 kg	17,108 lb
Static linear load	23.9 kg	146 lb/in

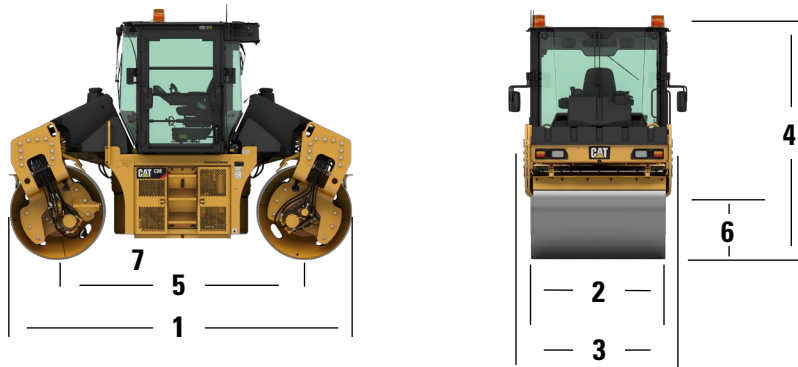
#### Engine – Powertrain

Engine Model	Cat® C3.4B	
Number of Cylinders	4	
Rated Speed	2200 rpm	
Bore	99 mm	3.89"
Stroke	110 mm	4.33"
Gross Power:		
Tier 4 Interim, Stage IIIB	75 kW	100 hp (l), 102 hp (m)
Speed Ranges:		
Low	0 - 7 km/hr	4.3 mph
High	0 - 12 km/hr	7.5 mph
Gradeability (no vibs):		
Solid drum	38°	
Split drum	39°	
Steering (Inside)	2.9 m	(9' 3")
Articulation Angle	25°	



# CD8 Drum Steer Vibratory Roller

## Dimensions



1 Overall length	4284 mm	13' 10"
2 Drum width	1500 mm	59"
Drum offset	1320 mm	51"
Max. compaction width	2820 mm	111"
Drum shell thickness	16 mm	0.67"
Drum diameter	1106 mm	44"
3 Overall width	1664 mm	5' 6"
4 Height at ROPS/FOPS	2940 mm	9' 8"
Height at cab	2940 mm	9' 8"
5 Wheelbase	3120 mm	10' 3"
6 Curb clearance	663 mm	26"
7 Ground clearance	273 mm	10"

## Vibratory Systems

### 2-Amplitude, 2-Frequency – Split Drum

Frequency – Hz (vpm)	42/53.3	(2520/3200)
Amplitude – mm (in)	0.62 - 0.31	(0.024 - 0.012)
Centrifugal Force (high) – kN (lbF)	73.8	(16,590)
Centrifugal Force (low) – kN (lbF)	59.2	(13,309)

### 2-Amplitude, 2-Frequency – Solid Drum

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\* – Solid Drum

Frequency – Hz (vpm)	53.3	(3200)
Amplitude – mm (in) high	0.65	(0.026)
Centrifugal Force (high) – kN (lbF)	68.8	(15,467)
Frequency – Hz (vpm)	57	(3420)
Amplitude – mm (in)	0.31	(0.012)
Centrifugal Force (low) – kN (lbF)	43.2	(9,712)

\* System available for Europe only.

## Standard and Optional Equipment

### STANDARD EQUIPMENT:

- 12-Volt Electrical System
- 120 Amp Alternator
- 600 L (159 gal) Water Tank Capacity
- 2-Amplitude, 2-Frequency Vibratory System
- Automatic Traction Control
- Front and Rear Split Drums
- Locking Engine Compartment
- Roading Lights
- ROPS/FOPS Cab
- Sealed Pod Vibratory System
- Suspension Seat
- Triple Filtered Water Spray System
- Two-Speed Hydrostatic Transmission

### OPTIONAL EQUIPMENT:

- AccuGrade Temperature and Pass-Count Mapping
- Air Conditioning
- Air Suspension Seat w/Heat
- Bio-Degradeable Oil
- Chip Spreader Ready (split drum)
- CMV Sensor
- Edge Cutter
- Freeze Protection Kit
- Front and Rear Solid Drums
- Halogen Lights w/Drum Edge Lights
- High Intensity Discharge (HID) w/Drum Edge Lighting
- High Ambient Cooling System
- IRH Compliant
- LED Lighting
- Machine to Machine Communication
- Mirrors
- Product Link™
- Recording Module (cab only)
- ROPS/FOPS Open Platform
- Temperature Gauge (single sensor)
- Warning Beacon
- Water Distribution Mats (cocoa)
- Water Distribution Mats (rubber)

## Service Refill Capacities

Fuel tank	135 L	36 gal
Fuel usage (50% duty)	12 hours	
Cooling system	15 L	3.9 gal
Engine oil	9 L	2.4 gal
Hydraulic tank	36 L	9.5 gal
Water tank	600 L	159 gal

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