



Cat® CD44B

DRUM-STEER VIBRATORY ROLLER

Top Features

The Cat® CD44B is a 7.5 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 E.U. 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 dual amplitude, dual 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

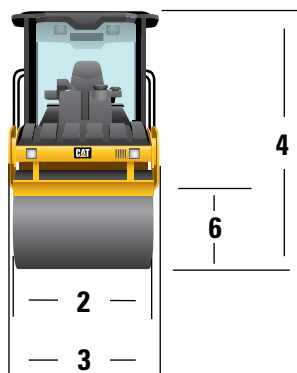
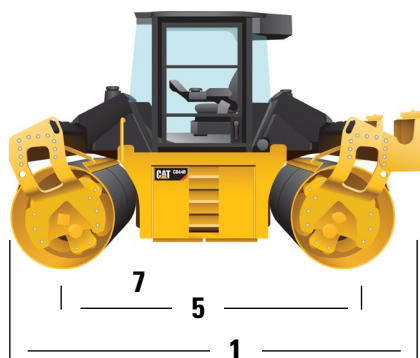
Engine – Powertrain

Engine Model	Cat® C3.4B with ACERT™ Technology	
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	(12' 3")
Articulation Angle	25°	



CD44B 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

Dual Amplitude, Dual Frequency - Split Drum

Frequency – Hz (vpm)	42/53.3	(2520/3200)
Amplitude – mm (in)	0.68 - 0.34	(0.027 - 0.013)

Dual Amplitude, Dual Frequency - Solid Drum

Frequency – Hz (vpm)	53.3/66.7	(3200/4000)
Amplitude – mm (in)	0.65 - 0.31	(0.026 - 0.012)

Dual Amplitude, Dual Frequency - Solid Drum

Frequency – Hz (vpm)	45/53.3	(2700/3200)
Amplitude – mm (in)	0.67 - 0.35	(0.026 - 0.014)

Service Refill Capacities

Fuel tank	135 L	36 gal
Fuel usage (50% duty)	12 hours	
Cooling system	15	3.9 gal
Engine oil	9	2.4 gal
Hydraulic tank	36 L	9.5 gal
Water tank	750 L	198 gal

Standard and Optional Equipment

STANDARD EQUIPMENT:

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

OPTIONAL EQUIPMENT:

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

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QE HQ1586 (6-12)

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