



Cat[®] CB44B

TANDEM VIBRATORY ROLLER

Top Features

The Cat[®] CB44B is a 7.5 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 C3.4B engine that meets U.S. EPA Tier 4 Interim and E.U. Stage IIIB emissions standards. The split drum or solid drum designs provide the contractor with options to meet paving requirements. The split drum delivers superior mat quality and smooth performance when turning.
- **Versatile Vibratory Systems** include choice of dual amplitude/dual 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.
- **Best Lifetime Value** with ECO-mode operation that conserves fuel, while oil-bath lubrication extends vibratory drum service intervals and minimizes life-time operating costs.

Specifications

Weights

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

| | | |
|--------------------|------------|-----------|
| Standard machine | 9330 kg | 20,569 lb |
| Maximum machine | 10 470 kg | 23,082 lb |
| Static linear load | 31.1 kg/cm | 174 lb/in |

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

| | | |
|--------------------|------------|-----------|
| Standard machine | 9030 kg | 19,908 lb |
| Maximum machine | 10 250 kg | 22,597 lb |
| Static linear load | 29.8 kg/cm | 167 lb/in |

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

| | | |
|--------------------|---------|-----------|
| Standard machine | 7990 kg | 17,615 lb |
| Maximum machine | 8720 kg | 19,224 lb |
| Static linear load | 26.3 kg | 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 | 742 L | 196 gal |

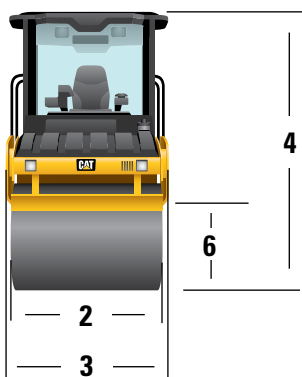
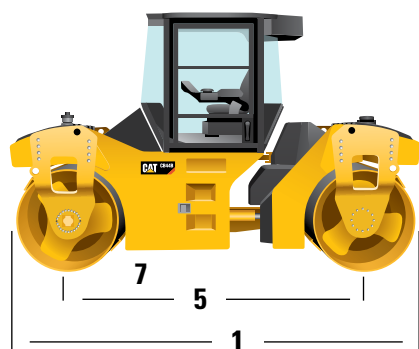
Engine – Powertrain

| | | |
|----------------------------|------------------------|------------------------|
| 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 vibe): | | |
| Solid drum | 35° | |
| Split drum | 38° | |
| Steering (Inside) | 4.4 m | (14' 8") |
| Articulation Angle | 35° | |



CB44B 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 | 16 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.

Dual Amplitude, Dual Frequency - Split Drum

| | | |
|----------------------|-------------|-----------------|
| Frequency – Hz (vpm) | 42/53.3 | (2520/3200) |
| Amplitude – mm (in) | 0.62 - 0.31 | (0.024 - 0.012) |

Dual Amplitude, Dual Frequency - Solid Drum

| | | |
|----------------------|-------------|-----------------|
| Frequency – Hz (vpm) | 53.3/63.3 | (3200/3800) |
| Amplitude – mm (in) | 0.65 - 0.31 | (0.026 - 0.012) |

Dual Amplitude, Dual Frequency - Solid Drum

| | | |
|----------------------|-------------|------------------|
| Frequency – Hz (vpm) | 45/53.3/57 | (2700/3200/3420) |
| Amplitude – mm (in) | 0.65 - 0.31 | (0.026 - 0.012) |

Five amplitude - Solid Drum

| | | |
|----------------------|-------------|--------------|
| 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) |

Standard and Optional Equipment

STANDARD EQUIPMENT:

- Front and Rear Solid Drums
- 5-Amplitude Vibratory System
- Sealed Pod Vibratory System
- ROPS/FOPS Platform
- Two-Speed Hydrostatic Transmission
- Locking Engine Compartment
- Triple Filtered Water Spray System
- 742 L Water Tank Capacity
- 12-Volt Electrical System
- 120 Amp Alternator
- Suspension Seat
- Working Lights

OPTIONAL EQUIPMENT:

- ROPS/FOPS Cab
- Roading Lights
- 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
- Cat Compaction Control (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 Split Drum

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at www.cat.com

QEHQ1584-01 (09-12)

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