



Cat[®] CB10

TANDEM VIBRATORY ROLLER

Top Features

The Cat[®] CB10 is a 10 ton roller with 1700 mm (67") 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.

- **Versatile Vibratory Systems** include choice of Auto Adjustable Compaction (AAC), Oscillation, 2-amplitude/2-frequency, 5-amplitude, and VERSA-Vibe™ systems. Multiple options available to match thick and thin lifts as well as various paving speeds.
- **Exceptional Visibility and Control** with handwheel steering technology, touch-pad machine functions, Eco-mode operation, and optional Compaction Control. This machine can be equipped with a Cab or ROPS/FOPS.
- **Smooth Operating Powertrain** with C4.4 engine that meets U.S. EPA Tier 4 Interim and EU Stage IIIB emissions standards. The split drum or solid drum designs provide the operator with options to meet paving requirements. The split drum delivers superior mat quality and smooth performance when making turns.
- **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.
- **Auto-Adjustable Compaction** delivers faster compaction, increased productivity, and simple operation at a lower cost. Each drum is controlled independently and activation is as simple as the push of a button.
- **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.

Specifications

Weights

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

| | | |
|--------------------|------------|-----------|
| Standard machine | 10 670 kg | 23,525 lb |
| Maximum machine | 12 070 kg | 26,610 lb |
| Static linear load | 31.5 kg/cm | 176 lb/in |

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

| | | |
|--------------------|------------|-----------|
| Standard machine | 9710 kg | 21,407 lb |
| Maximum machine | 10 510 kg | 23,171 lb |
| Static linear load | 28.5 kg/cm | 160 lb/in |

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

| | | |
|--------------------|------------|-----------|
| Standard machine | 10 410 kg | 22,950 lb |
| Maximum machine | 11 790 kg | 25,995 lb |
| Static linear load | 30.8 kg/cm | 173 lb/in |

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

| | | |
|--------------------|------------|-----------|
| Standard machine | 9500 kg | 20,945 lb |
| Maximum machine | 10 235 kg | 22,564 lb |
| Static linear load | 27.8 kg/cm | 156 lb/in |

Service Refill Capacities

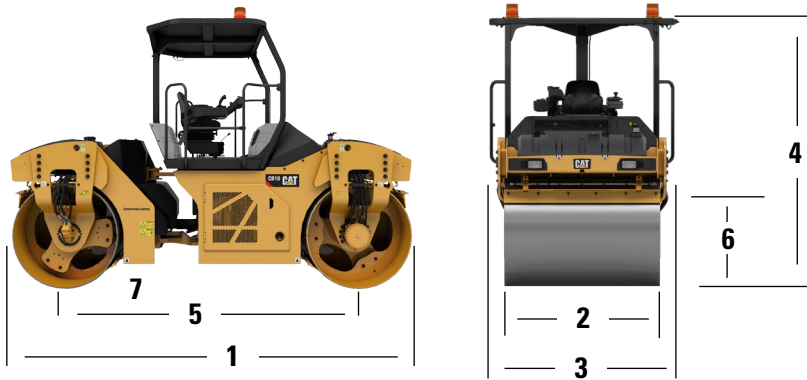
| | | |
|-----------------------|----------|---------|
| Fuel Tank | 208 L | 55 gal |
| Fuel Usage (50% duty) | 12 hours | |
| Cooling System | 22 L | 5.8 gal |
| Engine Oil | 9 L | 2.4 gal |
| Hydraulic Tank | 36 L | 9.5 gal |
| Water Tank | 837 L | 221 gal |

Engine – Powertrain

| | | |
|----------------------------|---------------------------------|--------------------------|
| Engine Model | Cat C4.4 with ACERT™ Technology | |
| Number of Cylinders | 4 | |
| Rated Speed | 2200 rpm | |
| Bore | 105 mm | 4.13" |
| Stroke | 127 mm | 5" |
| Gross Power: | | |
| Tier 4 Interim, Stage IIIB | 98 kW | 131 hp (l), 133.2 hp (m) |
| Speed Ranges: | | |
| Low | 0 - 7 km/hr | 4.3 mph |
| High | 0 - 12 km/hr | 7.5 mph |
| Gradeability (no vibrate): | | |
| Solid drum | 38° | |
| Split drum | 44° | |
| Steering (Inside) | 4.3 m | (14' 1") |
| Articulation Angle | 35° | |
| Drum Offset | 170 mm | (6") |



CB10 Tandem Vibratory Roller



Dimensions

| | | |
|-----------------------|---------|---------|
| 1 Overall Length | 4565 mm | 14' 9" |
| 2 Drum Width | 1700 mm | 67" |
| Drum Offset | 170 mm | 6" |
| Drum Shell Thickness | 17 mm | 0.67" |
| Drum Diameter | 1198 mm | 47" |
| 3 Overall width | 1872 mm | 6' 2" |
| 4 Height at ROPS/FOPS | 2982 mm | 9' 9" |
| Height at Cab | 2982 mm | 9' 9" |
| 5 Wheelbase | 3300 mm | 10' 10" |
| 6 Curb Clearance | 934 mm | 37" |
| 7 Ground Clearance | 268 mm | 10" |

Vibratory Systems

2-Amplitude, 2-Frequency – Split Drum (VT1)*

| | | |
|-------------------------------------|-------------|-----------------|
| Frequency – Hz (vpm) | 42/53.3 | (2520/3200) |
| Amplitude – mm (in) | 0.61 - 0.33 | (0.024 - 0.013) |
| Centrifugal Force (high) – kN (lbF) | 86.7 | (19,491) |
| Centrifugal Force (low) – kN (lbF) | 75.5 | (16,973) |

2-Amplitude, 2-Frequency – Solid Drum (VT2)**

| | | |
|-------------------------------------|-------------|-----------------|
| Frequency – Hz (vpm) | 43/63.3 | (2580/3800) |
| Amplitude – mm (in) | 0.82 - 0.32 | (0.032 - 0.012) |
| Centrifugal Force (high) – kN (lbF) | 81.6 | (18,344) |
| Centrifugal Force (low) – kN (lbF) | 69.9 | (15,714) |

2-Amplitude, 2-Frequency – Solid Drum (VT2)**

| | | |
|-------------------------------------|-------------|-----------------|
| Frequency – Hz (vpm) | 43/53.3 | (2580/3200) |
| Amplitude – mm (in) | 0.82 - 0.32 | (0.032 - 0.012) |
| Centrifugal Force (high) – kN (lbF) | 81.6 | (18,344) |
| Centrifugal Force (low) – kN (lbF) | 49.6 | (11,151) |

Versa-Vibe – Solid Drum (U.S. and Canada only)

| | | |
|-------------------------------------|------|----------|
| Frequency – Hz (vpm) | 43 | (2580) |
| Amplitude – mm (in) high | 0.86 | (0.034) |
| low | 0.72 | (0.028) |
| Centrifugal Force (high) – kN (lbF) | 87.6 | (19,693) |
| Centrifugal Force (low) – kN (lbF) | 72.9 | (16,389) |

| | | |
|-------------------------------------|------|----------|
| Frequency – Hz (vpm) | 63.3 | (3800) |
| Amplitude – mm (in) high | 0.39 | (0.015) |
| low | 0.26 | (0.010) |
| Centrifugal Force (high) – kN (lbF) | 86.7 | (19,491) |
| Centrifugal Force (low) – kN (lbF) | 58.2 | (13,084) |

* Meets French VT1 Method Spec Classification

** Meets French VT2 Method Spec Classification

Auto-Adjustable Compaction (AAC) – Split Drum

| | | |
|-------------------------------------|-------|----------|
| Frequency – Hz (vpm) | 42 | (2520) |
| Amplitude Range – mm (in) – high | 0.84 | (0.033) |
| low | 0.18 | (0.007) |
| Centrifugal Force (high) – kN (lbF) | 128.9 | (28,977) |
| Centrifugal Force (low) – kN (lbF) | 27.1 | (6,092) |

| | | |
|-------------------------------------|-------|----------|
| Frequency – Hz (vpm) | 53.3 | (3200) |
| Amplitude Range – mm (in) – high | 0.45 | (0.017) |
| low | 0.18 | (0.007) |
| Centrifugal Force (high) – kN (lbF) | 111.1 | (24,976) |
| Centrifugal Force (low) – kN (lbF) | 43.6 | (9,806) |

Oscillatory Vibration System – Rear Drum

| | | |
|--------------------------------------|------|---------|
| Frequency – Hz (vpm) | 40 | (2400) |
| Amplitude – mm (in) Hardened Drum*** | 1.35 | (0.053) |
| Standard Drum | 1.12 | (0.044) |

*** Beneficial for rigid stone mix designs.

5-Amplitude – Solid Drum (VT2)**

| | | |
|-------------------------------------|-------|----------|
| Frequency – Hz (vpm) | 43 | (2580) |
| Amplitude – mm (in) – high | 1.06 | (0.042) |
| medium high | 0.91 | (0.036) |
| medium | 0.73 | (0.029) |
| medium low | 0.54 | (0.021) |
| low | 0.34 | (0.013) |
| Centrifugal Force (high) – kN (lbF) | 107.0 | (24,055) |
| Centrifugal Force (low) – kN (lbF) | 34.6 | (7,778) |

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

QEHQ2241-01 (1-17)

© 2017 Caterpillar
All Rights Reserved

Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

CAT, CATERPILLAR, SAFETY.CAT.COM, their respective logos, "Caterpillar Yellow" and the "Power Edge" trade dress, as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

