

TANDEM VIBRATORY ROLLERS

CB7 | CB8 | CB10 | CB13 | CB15 | CB16



CAT[®]

TANDEM VIBRATORY ROLLERS

The Cat® line of Tandem Vibratory Rollers offer many technological enhancements that provide better control, more versatility, and increased efficiency:

- + 360° SEAT POSITIONING
- + OSCILLATORY VIBRATION
- + CAT COMPACTION CONTROL

Ready to help you make your business stronger, Cat Tandem Vibratory Rollers give you new ways to get the most work done at the lowest cost—so you put more money in your pocket.



CAT® TANDEM VIBRATORY ROLLERS

RELIABLE. COMFORTABLE. PRODUCTIVE.

These models deliver excellent mat densities, good visibility and comfort, fuel efficiency with Eco-mode, and unmatched reliability.

ELIMINATE CONCERNS

CAT COMPACTION CONTROL

IS HERE TO ASSIST

Traffic, haul trucks, paver stops, night-time operation are genuine concerns when operating an asphalt compactor. The degree to which these become distractions can have a direct affect on the quality of the pavement. Did every part of the mat receive the same number of passes? Was the asphalt temperature conducive for compaction? Was the base prepared correctly? Where did I stop on the previous pass? Do I have the amplitude set correctly?

The following Cat Compaction Control Technologies can help provide answers to these questions.



PASS-COUNT AND TEMPERATURE MAPPING

Helps ensure the mat gets covered completely when optimal temperatures exist. It combines infrared temperature sensors with GPS mapping to keep the operator informed of current asphalt temperatures, machine position, pass-count, and layer coverage.



COMPACTION METER VALUE (CMV)

Utilizes a drum-mounted accelerometer to measure the combined stiffness of the asphalt layer, base layer, and sub-base layer. It can help indicate issues with the road structure, even beneath the asphalt layer.



MACHINE-TO-MACHINE COMMUNICATION

Helps keep rolling patterns in sync by sharing mapped data such as CMV, temperature mapping, coverage area, and pass-count maps between the displays of multiple machines.



360° SEAT POSITIONING ENHANCES SAFETY

Working in unfavorable conditions is typical in the paving business, but the operating station helps keep operators comfortable, safe, and productive.



KEEP MOVING FORWARD

Visibility and comfort are enhanced by the 360° seat positioning option that enables the operator to always face the direction of travel. Handwheel steering technology eliminates the front steering console, enabling the operator to easily monitor water spray performance as well as oncoming obstacles. An optional 8-button control panel simplifies control for efficient performance.

BECOME MORE VERSATILE WITH OSCILLATORY VIBRATION



The design combines high-performance vertical vibration on the front drum with oscillation technology on the rear drum. The front drum with vertical vibration is available in two amplitude, five amplitude, or Versa-Vibe systems that provide initial compaction, while the rear drum with oscillation continues the excellent performance for optimal smoothness and density.

UNIQUE FEATURES

- Proven pod-style eccentric weight technology developed by Caterpillar
- 2 year/2000 hour service interval helps maximize uptime and limit maintenance costs.
- Durable power-transmission delivers 2-times the load capacity of timing belt systems leading to extended life
- Standard drum and optional hardened drum shells offer exceptional long-term life on a variety of mix designs and delivers outstanding mat texture, density, and smoothness.

** Refer to the price list for model availability.*



ASPHALT COMPACTION GUIDE

KNOW YOUR SETTINGS

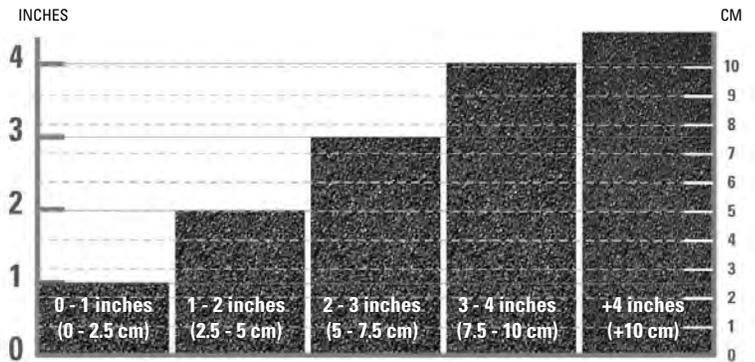


Frequency
Console Setting



Amplitude
Handwheel Setting

ASPHALT THICKNESS



Versa Vibe™ System



High Frequency



Low Amplitude



High Frequency



High Amplitude



High Frequency



High Amplitude



Low Frequency



Low Amplitude



Low Frequency



Low Amplitude



Low Frequency



High Amplitude

2 Amplitude 2 Frequency System



High Frequency



High Frequency



High Frequency



Low Frequency



Low Frequency



Low Frequency

5 Amplitude System



1 or 2



2 or 3



2 or 3 or 4



3 or 4



4 or 5

Frequency:

The number of times that the drum hits the asphalt layer.

Low: 40 - 46 Hz (2400 - 2800 vibration per minute)

High: Above 56 Hz (3400 vibrations per minute)



Amplitude:

The distance that the drum penetrates the asphalt layer.

Low: Drum movement between 0.25 - 0.5 mm (0.01" - 0.02")

High: Drum movement over 0.75 mm (0.03")



* Recommended "Impact Spacing": 33 to 46 impacts per meter (10 to 14 impacts per foot)

TECHNICAL SPECIFICATIONS

See cat.com for complete specifications.

	CB7			CB8			CB10		
ENGINE									
Gross Power	82 kW	111.5 mhp	110 hp	82 kW	111.5 mhp	110 hp	97 kW	131.8 mhp	130 hp
MACHINE WEIGHT									
Operating Weight with ROPS	7990 kg	17,615 lb		8520 kg	18,783 lb		9500 kg	20,945 lb	
Operating Weight – Maximum	8720 kg	19,224 lb		9250 kg	20,343 lb		10 235 kg	22,564 lb	
Static Linear Load	26.3 kg/cm	147 lb/in		25.1 kg/cm	141 lb/in		27.8 kg/cm	156 lb/in	
DIMENSIONS									
Overall Length	4565 mm	14 ft 5 in		4565 mm	14 ft 5 in		4565 mm	14 ft 5 in	
Overall Width	1670 mm	65 in		1862 mm	73 in		1872 mm	74 in	
Height	2980 mm	9 ft 9 in		2980 mm	9 ft 9 in		2982 mm	9 ft 9 in	
Compaction Width	1500 mm	59 in		1700 mm	67 in		1700 mm	67 in	
Drum Offset – Optional	170 mm	6 in		170 mm	6 in		170 mm	6 in	
VIBRATORY SPECIFICATIONS									
Amplitude – Maximum	0.65 mm	0.026 in		0.56 mm	0.022 in		1.06 mm	0.042 in	
Frequency – Minimum/Maximum	50/63.3 Hz – 3,000/3,800 vpm			50/63.3 Hz – 3,000/3,800 vpm			42/63.3 Hz – 2520/3800 vpm		
Centrifugal Force – Maximum	78.3 kN	17,603 lbF		78.3 kN	17,603 lbF		128.9 kN	28,977 lbF	
SERVICE REFILL CAPACITIES									
Fuel Tank Capacity	208 L	55 gal		208 L	55 gal		208 L	55 gal	
Water Tank Capacity	700 L	185 gal		700 L	185 gal		800 L	211 gal	

	CB13			CB15			CB16		
ENGINE									
Gross Power	106 kW	144 mhp	142 hp	106 kW	144 mhp	142 hp	106 kW	144 mhp	142 hp
MACHINE WEIGHT									
Operating Weight with ROPS	12 500 kg	27,557 lb		13 135 kg	28,958 lb		14 488 kg	31,941 lb	
Operating Weight – Maximum	13 150 kg	28,991 lb		13 785 kg	30,391 lb		15 538 kg	34,255 lb	
Static Linear Load	33 kg/cm	184 lb/in		32 kg/cm	181 lb/in		36 kg/cm	204 lb/in	
DIMENSIONS									
Overall Length	4742 mm	15 ft 6 in		4742 mm	15 ft 6 in		4742 mm	15 ft 6 in	
Overall Width	2325 mm	92 in		2325 mm	92 in		2325 mm	92 in	
Height	3068 mm	10 ft		3068 mm	10 ft		3068 mm	10 ft	
Compaction Width	2000 mm	79 in		2130 mm	84 in		2130 mm	84 in	
Drum Offset – Optional	170 mm	6 in		170 mm	6 in		170 mm	6 in	
VIBRATORY SPECIFICATIONS									
Amplitude – Maximum	0.096 mm	0.038 in		1.03 mm	0.041 in		1.03 mm	0.041 in	
Frequency – Minimum/Maximum	42/63.3 Hz – 2520/3800 vpm			42/63.3 Hz – 2520/3800 vpm			42/63.3 Hz – 2520/3800 vpm		
Centrifugal Force – Maximum	110 kN	24,728 lbF		138 kN	31,069 lbF		138 kN	31,069 lbF	
SERVICE REFILL CAPACITIES									
Fuel Tank Capacity	250 L	66 gal		250 L	66 gal		250 L	66 gal	
Water Tank Capacity	1000 L	264 gal		1000 L	264 gal		1000 L	264 gal	

BUILT FOR IT.™

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

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