MONTANA
Department of Transportation

MDT-BRG-015 04/23

Montana Department of Transportation
Bridge Bureau
Approved Construction Equipment List

Make:	*Caterpillar*
Model:	*CB16*
Equipment Type:	*Asphalt Compactor*
Contractor Modifications:	*None*

Interstate Approval Conditions

Approval Type	*Crossing Only*
Speed:	*No Restriction*
Weight:	*34,392 lb or less*
Traffic:	*Approved with regular traffic*
Location Restrictions:	*No Restriction*

Non-Interstate Approval Conditions

Approval Type	*Crossing Only*
Speed:	*No Restriction*
Weight:	*34,392 lb or less*
Traffic:	*Approved with regular traffic*
Location Restrictions:	*No Restriction*

Comments:

Equipment configuration, weights, and specifications on following pages. Approval does not apply to posted bridges. Other construction equipment is not allowed to operate on or cross bridge at the same time this equipment is on the bridge. Vibratory system must be turned off while on bridge.

Cat® CB16 Asphalt Compactor

Technical Specifications

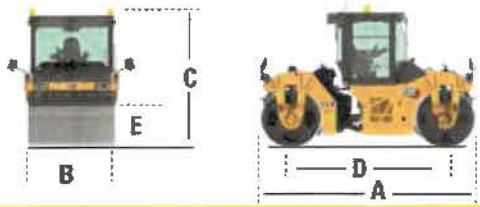
PowerTrain		
Engine Model	Cat C4.4	
Rated Power @ 2400 rpm	106 kW	142 hp
Global Emissions: U.S. EPA Tier 4 Final, U.S. EPA Tier 3, EU Stage IIIA, and China Stage III		
Speed – Operating	0-7 km/h	0-4 mph
Speed – Travel	13 km/h	0-8 mph
Gradeability	30%	

Machine Weight		
Operating Weight – ROPS	14 488 kg	31,941 lb
Maximum Weight – ROPS	15 538 kg	34,255 lb
Static Linear Load – ROPS	36 kg/cm	204 lb/in
Operating Weight – Cab	14 950 kg	32,959 lb
Maximum Weight – Cab	15 600 kg	34,392 lb
Static Linear Load – Cab	37 kg/cm	205 lb/in

Operating Weights are approximate and include ROPS, Cab, coolant, lubricants, full fuel tank, 50% water and 75 kg (165 lb) operator.

Service Refill Capacities		
Fuel Tank	250 L	66 gal
Water Spray Tank	1000 L	264 gal
Cooling System	21 L	5.5 gal
Engine Oil	8.1 L	2.1 gal
Hydraulic Tank	36 L	9.5 gal
DEF Tank	7.9 L	2 gal

Dimensions			
A	Overall Length	4740 mm	15' 6"
B	Overall Width	2325 mm	7' 8"
	Drum Width	2130 mm	84"
	Drum Offset	170 mm	6"
	Drum Shell Thickness	20 mm	0.79"
	Drum Diameter	1300 mm	51"
C	Height at ROPS/FOPS	3068 mm	10'
	Height at Cab	3068 mm	10'
D	Wheelbase	3450 mm	11' 3"
	Ground Clearance	292 mm	11.5"
E	Curb Clearance	723 mm	28"



Vibratory Systems			
Versa Vibe™			
Frequency – HZ (vpm)		42	2520
Amplitude – mm (in)	Drum setting H	0.67	0.030
	Drum setting L	0.57	0.026
Centifugal Force – kN (lbf)	Drum setting H	88.8	19,963
	Drum setting L	75.4	16,950
Frequency – HZ (vpm)		63.3	3800
Amplitude – mm (in)	Drum setting H	0.34	0.016
	Drum setting L	0.26	0.012
Centifugal Force – kN (lbf)	Drum setting H	103.3	23,222
	Drum setting L	77.5	17,422
Oscillation – Rear Drum			
Frequency – HZ (vpm)		40	2400
Amplitude – mm (in)		1.29	0.051
5-Amplitude			
Frequency – HZ (vpm)		42	2520
Amplitude – mm (in)	high	1.03	0.041
	medium high	0.95	0.037
	medium	0.83	0.033
	medium low	0.65	0.026
	low	0.41	0.016
Centrifugal Force – kN (lbF) (high)		138	31,069
Centrifugal Force – kN (lbF) (low)		55.2	12,409
2-Amplitude, 2-Frequency *(Not available in U.S. or Canada)*			
Frequency – HZ (vpm)		42	2520
Amplitude – mm (in)		0.76	0.030
Centrifugal Force – kN (lbF)		87.2	19,603
Frequency – HZ (vpm)		63.3	3800
Amplitude – mm (in)		0.29	0.011
Centrifugal Force – kN (lbF)		76.3	17,152

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