MONTANA Department of Transportation

MDT-BRG-015 04/23

Montana Department of Transportation
Bridge Bureau
Approved Construction Equipment List

mdtacel@mt.gov

Make: Caterpillar

Model: CB10

Equipment Type: tandem vibratory roller

Contractor Modifications: none

Interstate Approval Conditions

Approval Type	**crossing only**
Speed:	**no restriction**
Weight:	**22,575 lb or less**
Traffic:	**approved with regular traffic**
Location Restrictions:	**no restriction**

Non-Interstate Approval Conditions

Approval Type	**crossing only**
Speed:	**no restriction**
Weight:	**22,575 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 load 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. Approval is for a single roller crossing at a time, not two rollers working in tandem.

Cat CB10 Roller



Product Specifications For CB10

Weights

Operating Weight - With Cab	22255 lb
Standard Operating Weight with ROPS	21642 lb
Maximum Operating Weight with Cab	23197 lb
Maximum Operating Weight with ROPS	22575 lb

Operating Specifications

Standard Compaction Width	67 in
Maximum Compaction Width	73 in
Static Linear Load - With Cab	173 lb/in
Static Linear Load - With ROPS/FOPS	168 lb/in
Travel Speed - Maximum	7 mile/h

Dimensions

Overall Length	186 in
Overall Width	85 in
Height - With ROPS/FOPS or Cab	118 in
Wheel Base	139 in
Drum Diameter	47 in

Engine

Engine Model	Cat® C3.6

Engine Power (1)	120 hp

Vibratory System

Drum Width	67 in
Centrifugal Force per Drum - Maximum	14185 lb
Centrifugal Force per Drum - Minimum	11982 lb
Nominal Amplitude - High	0.034 in
Nominal Amplitude - Low	0.01 in
Vibration Selection	Independent per drum, front only, rear only, both

Service Refill Capacities

Fuel Tank Capacity	36.5 gal (US)
Water Spray Tank Capacity	225 gal (US)

CB10 Standard Equipment

Operating Environment

180º seat positioning w/ sliding station
Adjustable armrests
Full-color display with touchscreen operation
Platform ROPS/FOPS
Propel lever w/ 4-button control
Steering wheel - fixed position, left side
Suspension seat - no heat
Seatbelt - 76 mm (3 in) high visibility
Vandalism protection

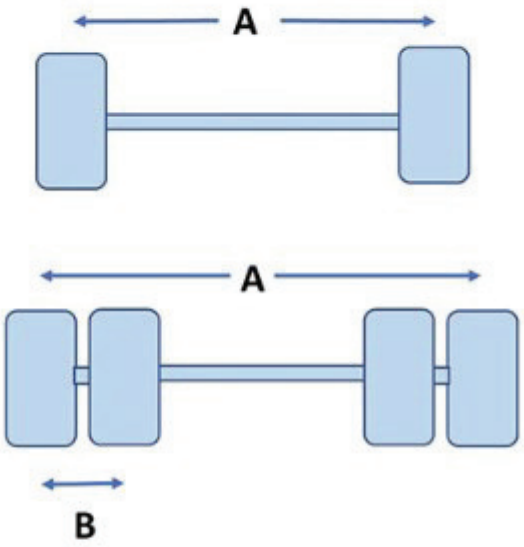
Technology

Visionlink®
Remote flash
Remote troubleshooting

Powertrain

If your company would like to submit equipment to be considered for inclusion in the ACEL, provide an application to MDT at: mdtacel@mt.gov
ACEL analysis is listed below.

- Equipment manufacturer's product specifications — See above.
- Detailed dimensions and data for equipment on wheels
  - Equipment Width (dimensions A and B)



Double Drum Roller 5.5' Width

  - Equipment Length (center of front axle to center of rear axle) — 11 feet
  - Number of axles — 2 axles
  - Distance between axles (center of tire to center of tire) — 11 feet
  - Maximum Gross Equipment Weight — 22,575 lbs
- Detailed dimensions and data for equipment on tracks
  - Equipment Width (center of track to center of track – if there is only one line of tracks, note this in the measurements
  - Equipment Length (center of front track to center of rear track)
  - Number of tracks in each track line
  - Length of each track
  - Maximum Gross Equipment Weight
- Information on any equipment modifications on your equipment (note that some modifications may preclude inclusion onto the ACEL)
- Contractor's contact information for ACEL analysis-related correspondence or follow-up information.