

CB-113 CB-114

Asphalt Compactors



	CB-113	CB-114
Operating Weight (with ROPS)	1500 kg (3,308 lb)	1500 kg (3,308 lb)
Compaction Width	880 mm (35")	800 mm (31")
Gross Power	16.1 kW (22 hp)	16.1 kW (22 hp)

Production-Sized Results in a Small Package

Highly maneuverable, compact, productive and easy to operate machines that can be driven with ease on small to medium-sized job sites.

Production Capabilities

The CB-113 incorporates an 880 mm (35") offset, front driving drum. The front offset drum provides full flush compaction capabilities on the right side of the machine. Drum vibration is provided on the rear drum only.

The CB-114 has a compaction width of 800 mm (31") and features two driving drums for good control while working in tough conditions.

Comfortable Operating Environment

Both machines provide a comfortable operating environment that contributes to the versatility of the machines. The roomy operator's station and low profile hood and machine design provide good visibility to the drum edges as well as to the front and rear of the machine.



Operator's Station

The convenient and comfortable operating environment promotes day-long productivity.

Operator's Station

The operator's station incorporates a fully-equipped console, adjustable suspension seat and rearview mirror. The steering wheel includes a steering knob providing easy maneuverability.

Suspension Seat

The suspension seat includes an armrest and a retractable seat belt.

Instrument Panel

An easy-to-understand instrument panel integrates a lighting package with turn signals, two-speed electric throttle, vibratory selection, warning lights for main functions and water spray switches.

Foldable ROPS (Standard)

The standard, foldable ROPS can be lowered without the use of tools providing easy transport.



CB-113 Offset Drum

The offset, front driving drum provides flush compaction for increased machine versatility.

Flush Compaction

The CB-113 incorporates an 880 mm (35") offset front drum. The drum is offset on the right side providing full flush compaction near walls, curbs and other vertical obstructions.

Visibility

Visibility to the offset drum edge provides the operator with complete control when working near objects.



Vibratory System and Drums

The vibratory system provides good balance between frequency and amplitude in order to meet various job site conditions.

Balanced Frequency and Amplitude

The machines incorporate a frequency of 53.3 Hz (3,200 vpm) and an amplitude of 0.4 mm (0.016") in order to provide a smooth mat.

Vibration Selection

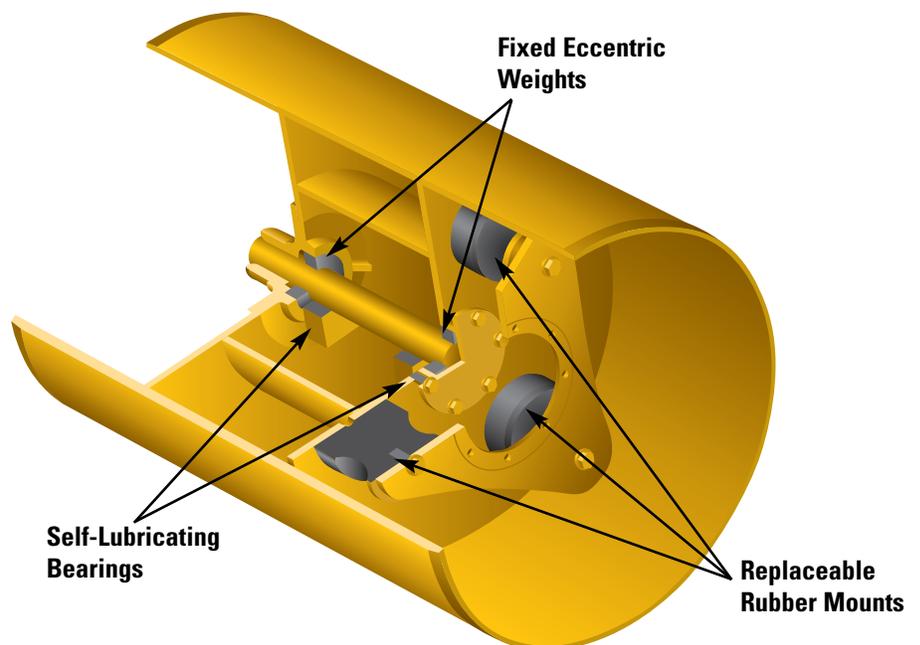
The CB-113 includes a rear-only vibratory selection and the CB-114 provides either both drums or front drum only vibratory selections.

Rubber Mounts

Replaceable rubber mounts isolate vibration and enhance vibratory capabilities.

Versatile Drum Scrapers

Each drum includes a spring-loaded self-adjusting scraper and a fixed position scraper to prevent material build-up.



Water Spray System

Corrosion-proof components provide long life and reliable operation.

Spray Capabilities

The standard pressurized water spray system with constant or intermittent capabilities provides extended operation between refills. The intermittent spray setting increases spray time by 50% over the continuous setting.

Water Pump and Filters

The extended life water pump and filters are conveniently located for easy access while providing optimum spray and flow.

Water Filtration

Double water filtration reduces machine downtime caused by system clogs.

Large Water Tank Fill and Drain

The large water tank fill and drain allow the system to be filled and drained within minutes.



Reliability and Serviceability

The CB-113 and CB-114 provide the reliability and serviceability that you've come to expect from Caterpillar.

Vertical Lift Engine Enclosure

The vertical lift engine enclosure allows fast access to routine service points.

Water Spray System

The filters can be easily removed without the use of special tools.

Extended Life Oils

Extended life oils increase maintenance intervals for the vibratory system, hydraulic system and engine oil. A remote mounted drain for the engine oil provides simplified collection of fluids.

Quick-Connect Hydraulic Test Ports

The quick-connect hydraulic test ports simplify system diagnosis.



Heavy Weight (CB-114 only) and Single Lifting Point Options

The additional weight at the front and rear drums increases the static linear load and the single lifting point provides simplified loading.

Additional 100 kg (220 lb)

Two steel ballasts provide an additional 100 kg (220 lb) to the operating weight of the machine.

Equal Weight Distribution

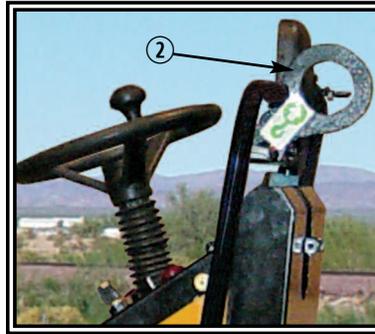
The two steel ballasts fitted to the front and rear of the machine provide equal weight distribution.

Increased Static Linear Load

The Heavy Weight option increases the static linear load to 10 kg/cm (56.90 lb/in) providing increased compaction results.

Single Lifting Point

A solid bar and lifting eye attached to the frame allows the machine to be easily loaded without using ramps.



- 1 Heavy Weight
- 2 Single Lifting Point

Optional Equipment

Single Lifting Point

A solid bar and lifting eye attached to the center of the machine provides a single lifting point for easy loading.

Heavy Weight (CB-114 only)

Two steel ballasts provide an additional 100 kg (220 lb) for increased versatility.

Back-up Alarm

An audible alarm is activated when the machine is shifted into reverse.

Bio-Degradable Hydraulic Oil

Ecologically-friendly hydraulic oil is fully compatible with hydraulic components.

* Optional equipment may vary per region. Contact your Caterpillar Dealer for specific information.

Compaction Characteristics

	CB-113	CB-114
Vibratory Selection	Rear	Front or Both
Frequency	53.3 Hz	53.3 Hz
	3,200 vpm	3,200 vpm
Nominal Amplitude	0.4 mm	0.4 mm
	0.016"	0.016"
Centrifugal Force	10.25 kN	10.25 kN
	2,306 lb	2,306 lb
Static Linear Load		
Front	8.5 kg/cm	9.4 kg/cm
	48.65 lb/in	53.35 lb/in
Rear	9.4 kg/cm	9.4 kg/cm
	53.35 lb/in	53.35 lb/in

* Static Linear Load for the CB-114 Heavy Weight is 10 kg/cm (56.90 lb/in).

Engine

Hatz 2G 40H, air-cooled, 4-stroke, 2-cylinder diesel engine. The engine meets U.S. EPA Tier 2 engine emission requirements.

Engine	Hatz 2G 40H	
Gross Power	kW	hp
@ 3000 rpm	16.1	22
Net Power	kW	hp
ISO 9249	14.7	20
Specifications		
Bore	92 mm	3.62"
Stroke	75 mm	2.95"
Displacement	997 cm ³	60.8 in ³

- The net power ratings apply at a rated speed of 3000 RPM when tested under the reference conditions for the specific standard.
- The net power advertised is the power available at the flywheel when the engine is equipped with alternator, air cleaner and muffler.

Brakes

The brake systems meet ISO 3450 and EN-500-4. The braking system will automatically engage if a pressure drop in the hydraulic system occurs.

Service

The service braking system consists of a closed-loop, hydrostatic system that provides dynamic braking during machine operation.

Secondary

A spring-applied, pressure-released brake inside of each propel motor immobilizes the machine. The secondary brake can be activated by a switch on the operator's console or when the engine is shut off.

Transmission

The transmission incorporates a dual hydrostatic drum drive with hydraulic motors fitted in series. A variable-displacement piston-type pump supplies pressure flow to fixed displacement hydraulic motors that drive the front and rear drums. The mechanical-type propel lever provides smooth control of the infinitely variable speeds in both forward and reverse.

Speed

0-8 km/hr (0-5 mph)

Steering System

An engine-driven gear-type pump supplies hydraulic fluid for the steering circuit.

Minimum Turning Radius

Inside Drum Edge	3.0 m (9' 10")
Outside Drum Edge	
CB-113	3.9 m (12' 8")
CB-114	3.8 m (12' 5")
Steering Angle	24°

Water Spray System

The water spray system includes easy to clean spray bars that are constructed of PVC for corrosion resistance. The water tank is constructed of stainless steel. An electric water pump provides continuous or intermittent spray capability.

Dual filtration is provided by a filter on the tank fill spout and an in-line filter at the water pump.

Instrumentation

The operator's station includes: steering wheel with knob, water spray system switch, vibratory drum selector switch, horn, hazard flasher control, turn signals, lights switches, engine start switch and parking brake.

The instrument panel is equipped with light indicators for: roading lights, water system on, vibration on and turn signals. The instrument panel is also equipped with warning light indicators for: parking brake, alternator, engine oil pressure, hydraulic oil pressure and air filter.

The vibratory system is actuated with a switch on the top of the propel lever. When the vibratory system is activated, a vibration indicator light illuminates.

The engine throttle control is operated via a two-position switch for low and high idle engine speed. The service hour meter is located in the engine compartment.

The control console and hood are equipped with lockable covers.

Frame

The frame is fabricated from heavy gauge steel plate and joined at the center articulation pivot. Two self-aligning bearings on the pivot housing provide a ± 24 degree steering angle, and a horizontal pin provides a ± 8 degree oscillation angle. The articulation pivot is structurally reinforced for extended service life. For transport purposes, the articulation pivot can be secured at the zero steering angle.

Electrical System

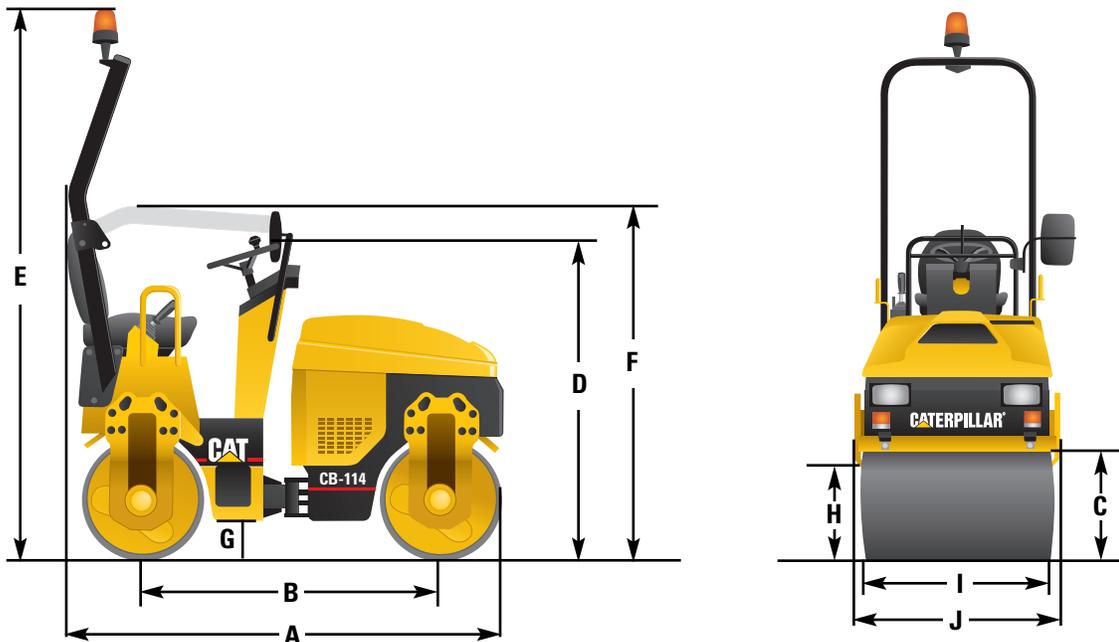
The 12-volt electrical system includes one maintenance-free Cat battery with 650 cold cranking amps. The wiring is color-coded, numbered and wrapped in nylon braid. The system includes a 55-amp alternator.

Dimensions

	CB-113	CB-114
A Length	2.08 m (6' 10")	2.08 m (6' 10")
B Wheelbase	1.43 m (4' 8")	1.43 m (4' 8")
C Drum Diameter	575 mm (22.5")	575 mm (22.5")
Drum Shell Thickness	10 mm (0.39")	10 mm (0.39")
D Height at Steering Wheel	1.52 m (5' 0")	1.52 m (5' 0")
E Height at ROPS	2.62 m (8' 7")	2.62 m (8' 7")
F Height with ROPS Folded	1.74 m (5' 8")	1.74 m (5' 8")
G Ground Clearance	195 mm (7.5")	195 mm (7.5")
H Curb Clearance	Offset Drum	370 mm (14.5")
I Compaction Width	880 mm (35")	800 mm (31")
J Machine Width	940 mm (37")	884 mm (35")

Service Refill Capacities

	Liters	Gallons
Engine Oil w/Filter	2.5	0.66
Fuel Tank	22	5.8
Hydraulic Fluid Tank	43	11.4
Hydraulic Circuit	48	12.7
Water Spray System	87	23.0



Weights (approximate)

Operating weights include lubricants, 80 kg (176 lb) operator, full fuel tank, full hydraulic system and half-full water tank.

	CB-113/114	CB-114 Heavy Weight
Operating Weight with ROPS	1500 kg (3,308 lb)	1600 kg (3,528 lb)
Weight at Front Drum	750 kg (1,654 lb)	800 kg (1,764 lb)
Weight at Rear Drum	750 kg (1,654 lb)	800 kg (1,764 lb)

Caterpillar offers a comprehensive line of Utility Compactors

Contact your local Caterpillar® Dealer to learn more about the complete line of Caterpillar® Paving Products.



CB-214E

Operating Weight	2390 kg (5,270 lb)
Drum Width	1.00 m (3' 3")
Frequency	63 Hz (3,780 vpm)
Centrifugal Force	27.6 kN (6,075 lb)
Gross Power	24.4 kW (32.7 hp)



CB-224E

CB-225E

Operating Weight	2570 kg (5,670 lb)	2240 kg (4,940 lb)
Drum Width	1.20 m (3' 11")	1.20 m (3' 11")
Frequency	63 Hz (3,780 vpm)	63 Hz (3,780 vpm)
Centrifugal Force	31.4 kN (6,975 lb)	31.4 kN (6,975 lb)
Gross Power	24.4 kW (32.7 hp)	24.4 kW (32.7 hp)

CB-334E

CB-335E

Operating Weight	3960 kg (8,730 lb)	3670 kg (8,092 lb)
Drum Width	1.30 m (4' 3")	1.30 m (4' 3")
Frequency	69 Hz (4,140 vpm)	69 Hz (4,140 vpm)
Centrifugal Force	32.3 kN (7,267 lb)	32.3 kN (7,267 lb)
Gross Power	37.3 kW (50 hp)	37.3 kW (50 hp)



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