

	CB-334D	CB-335D
Operating weight	3850 kg	3590 kg
Compaction width	1300 mm	1300 mm
Gross power	31.7 kW/42.5 hp	23.5 kW/31.5 hp

## **All-around Performers**



The CB-334D and CB-335D are versatile machines that can be used as the only compactor on small to intermediate sized jobs or on larger jobs in conjunction with high-production models.

The CB-334D and CB-335D are true 4 ton rollers. They are not stretched versions of 2.5 ton machines like most competitive units.

The CB-334D is performance driven with its high frequency vibratory system that generates 68 Hz. Its high tractive effort provides plenty of power to work on grades.

Meanwhile, the CB-335D is more versatility driven. Its steel front drum and rubber tired rear wheels allow it to function as both a vibratory and a pneumatic compactor. This versatility can help eliminate an operator, decrease maintenance costs and lower transportation expenses.

The CB-334D and CB-335D provide a comfortable and convenient operating environment that contribute to the versatility of the machines. The roomy operator's seat slides from side to side for excellent visibility to drum edge or tire contact points. Their low-profile design provides great visibility to the front and rear.

In addition, the machines are quiet for the operator and spectators. The low sound levels make them a perfect match for commercial jobs when compaction must coincide with day-to-day business operations, for example, on a parking lot at a convenience store. They also are simple to operate, allowing the least experienced crew member to operator them.

The CB-334D and CB-335D are supported by an extensive dealer network and parts distribution system as well as by Caterpillar dealer representatives that are highly trained and motivated.

# Caterpillar® 3013 and 3014 Engines

Reliable and durable diesel engines for years of low maintenance operation.



Precise balance and optimum running speed for smooth operation and extended engine life.

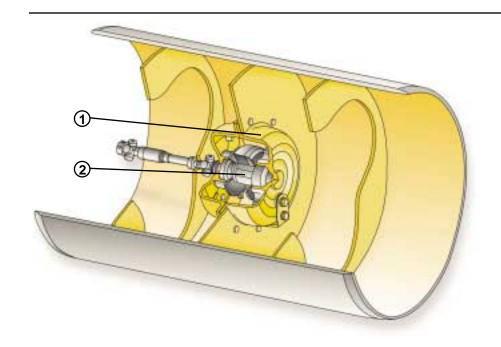
**Engines are liquid-cooled** keeping temperature low and helping reduce component wear.

Timing drive use three helically cut gears that help reduce noise levels.

Heat-treated chrome molybdenum steel crankshaft provides durable service life.

## **Vibratory System**

Precise system delivers optimum compactive force.



**Pod-style weight housings** are assembled and sealed at the factory to ensure cleanliness, extended bearing life and easy field exchange/service.

**Change interval** for bearing lubrication is every three years or 3000 hours.

Balance between frequency and amplitude provides a good mat finish for commercial work.

**High frequency on CB-334D** produces 68 Hz. This is the highest in its size class.

- 1 Pod-style weight housing
- 2 Fixed eccentric weight

## **Operator Comfort**

Operating ease and comfort promote all-day productivity.

**Single-lever control** provides simplified operation, making the machines a perfect fit for inexperienced operators.

**Easy-to-understand instrument panel** allows the operator to quickly verify the status of machine systems.

**Lockable cover** protects instrumentation and gauges.

**Low sound levels** make them comfortable for both operators and spectators.

**Isolated operator's station** with four rubber mounts helps eliminate vibration before it reaches the operator, controls and instrumentation.



#### **Operator's Station**

Environment for operator contributes to machine versatility.

**Seat slides from side to side** and locks into three positions – right, center and left

When positioned on the left or right side, operator has unobstructed visibility to drum edge or wheel contact points.

**Roomy operator's station** provides plenty of leg room for all-day operation.

**Suspension seat** with armrests provides lasting comfort.



#### **Water Spray System**

Corrosion-proof system and extended-life components provide reliable operation.



**Constant or intermittent spray capabilities** provide extended operation between refills.

**Polyethylene water tank** capacity is 300 liters. When using the intermittent spray mode, an operator can expect to fill the tank only twice during an eight hour shift on the CB-334D and only once with the CB-335D.

**Triple water filtration** reduces machine downtime caused by system clogs.

**Extended-life water pump** provides optimum spray and flow.

Water pump and filters are conveniently located for easy access.

**Large water tank drain** allows system to be drained in less than five minutes.

## **Excellent Forward and Rearward Visibility**

Low-profile design provides convenient control of machines.



**Excellent forward visibility** allows the operator to see objects 0.6 m high and 1 m in front of the machine.

#### Rearward visibility is even better.

Operator can see objects that are 0.8 m behind the machine and flush to the surface.

**Sloped engine enclosure** and lowprofile rear end provide unobstructed sight lines to ground personnel working near machine.

## **Drum Design Keeps Production High**

Weight is concentrated above each drum for excellent machine balance.

**Tapered-bevel drum edges** help eliminate marks on deep lifts or when turning.

**Drums are constructed of rolled steel plate** and are finished to reduce surface irregularities.

**Replaceable rubber mounts** isolate vibration and enhance vibratory capabilities.

**Each drum** is fitted with two adjustable, spring-applied scrapers, positioned at the front and rear of each drum.



## **Tires Enhance Versatility – CB-335D**

Weight is concentrated above the tires and drum for excellent machine balance.

Steel front drum and rubber tires at the rear allow a single machine to function as both a double drum and pneumatic compactor.

**Four rubber tires** generate a high ground contact pressure that penetrates deep into the lift.

#### Because the tires are flexible,

horizontal pressures develop, assisting with compaction.

**Each tire** is fitted with a replaceable, spring-loaded scraper. The scrapers can be positioned above the tires when the they are not needed.



# **Serviceability**

Time-saving features reduce maintenance requirements and increase production.



**Engine enclosure** pivots upward and locks into place.

External engine components, hydraulics and routine service points are clustered in easy-to-access locations.

**Visual indicators** simplify verification of fluid levels and filter conditions.

**Extended-life oils** increase maintenance intervals for the vibratory system, hydraulic system and engine oil.

Sealed-for-life bearing material in articulation hitch never needs to be greased.

Remote-mounted drains for hydraulic oil and cooling system provide simplified collection of fluids.

**Quick-connect hydraulic test ports** simplify system diagnosis.

**Electrical wiring** is color-coded and numbered for simple troubleshooting.

**Nylon-braided wrap and all-weather connectors** ensure electrical system integrity.

#### **Engine**

Caterpillar 3014 (CB-334D) and 3013 (CB-335D) liquid-cooled diesel engine.

	C	B-334D	C	B-335D
Ratings at 2800 rpm	kW	hp	kW	hp
Gross power	31.7	42.5	23.5	31.5
The following ratings apply at 2800 rpm when tested under the specified standard conditions:				
Net Power	kW	hp	kW	hp
ISO 9249	29.2	39.1	21.7	29.1
EEC80/1269	29.2	39.1	21.7	29.1

#### **Power rating conditions**

 Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler and alternator.

#### **Dimensions**

Bore	84 mm	84 mm
Stroke	90 mm	90 mm
Displacement	2 liters	2 liters

 Dual-element, dry-type air cleaner with visual restriction indicator.

## **Transmission**

**CB-334D** – Variable-displacement piston pump supplies pressure flow to fixed-displacement hydraulic motors that drive the front and rear drums.

**CB-335D** – Variable-displacement piston pump supplies pressure flow to a fixed-displacement hydraulic motor that drives the front drum, and the pump supplies pressure flow to two fixed-displacement motors that drive the rear wheels.

For both machines, a propel lever located at the operator's station provides smooth hydrostatic control of the infinitely variable speeds in both forward and reverse.

Speed range 0-11 km/h

## **Brakes**

Brake systems meet ISO 3450.

#### Service

 Closed-loop hydrostatic drive system provides dynamic braking during machine operation.

#### **Secondary and Parking**

 A multi-disc brake inside each drum traction motor immobilizes the roller. Activation is by a switch on the operator's console or when the engine is shut off.

## **Final Drives**

**CB-334D** – High-torque, low-speed hydraulic motors directly drive each drum.

**CB-335D** – High-torque, low-speed hydraulic motor directly drives the front drum, and two high-torque, low-speed hydraulic motors directly drive the rear wheels.

## **Steering**

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

Minimum turning radius	
Inside drum edge	3000 mm
Outside drum edge	4300 mm
Steering angle (each direction	n) 35°

#### **Hydraulic system**

One 70 mm bore, double-acting cylinder powered by a gear-type pump. Output at 2800 rpm is 23 liter/min with relief valve at 117 bar.

#### Instrumentation

The control console includes: steering wheel; engine throttle; water spray system switch; vibratory system switch; vibratory drum selector switch; hour meter; horn; fuel gauge; start switch; heat start switch; parking brake; and four-segment light for hydraulic oil temperature, oil pressure, alternator, and engine coolant. The control console is protected with a lockable cover.

#### **Electrical System**

The 12-volt electrical system includes one maintenance-free Cat battery and color-coded and numbered wiring wrapped in nylon braid. The system includes a 55-amp alternator.

The starting system provides 750 cold cranking amps.

#### **Sound Levels**

**CB-334D** – Sound levels measured at the operator's station are 82.1 dB(A), and sound levels measured at 15 m are 69.7 dB(A).

**B-335D** – Sound levels measured at the operator's station are 82.4 dB(A), and sound levels measured at 15 m are 71.5 dB(A).

# **Tire Wetting System**

**CB-335D** – option Tire Wetting System allows a solvent to be sprayed on the tire surfaces, helping prevent asphalt from adhering to the tires. One spray nozzle is positioned above each tire. The system is controlled with a momentary switch on the control console.

Capacity

20 liters

### **Wheels and Tires**

**CB-335D** – 7.50 x 16 6-ply tires are standard. Each tire is equipped with a replaceable scraper. The scrapers help clean asphalt or soil off the tires. The scrapers can be positioned above the tires when they are not needed. Wheels are on a fixed axle.

### **Water Spray System**

Spray bars are constructed of stainless steel for corrosion resistance. The water tank is reinforced polyethylene. An electric water pump provides either continuous or intermittent spray. Intermittent spray setting increases spray time by 50% over continuous setting. Triple filtration includes a filter on the tank fill spout, an in-line filter at the water pump and filters on each spray nozzle. Spray nozzles are easily removed without tools for cleaning.

Water capacity

300 liters

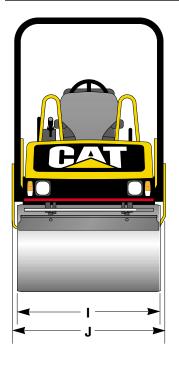
#### Frame

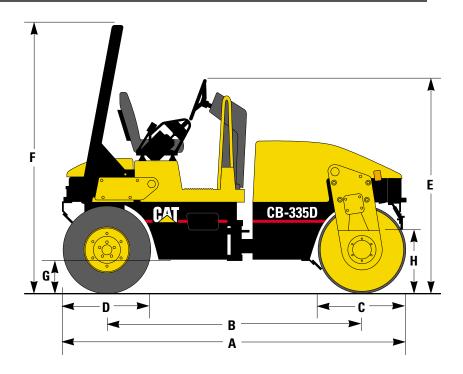
Frame is fabricated from heavy gauge steel plate and joined at the center articulation pivot by a single-piece hitch. Oscillating stops provide  $\pm 9^{\circ}$  frame oscillation. Articulation angle is  $\pm 35^{\circ}$ . The articulation pivot is structurally reinforced for extended service life. Special bearing material in articulation hitch never needs to be greased.

## **Compaction Characteristics**

	CB-334D	CB-335D
Vibration selections	Front or both	Front
Eccentric weight drive	Hydraulic	Hydraulic
Frequency	68 Hz	59 Hz
Nominal amplitude	0.37 mm	0.37 mm
Centrifugal force per drum	32 kN	25 kN
Load per cm of drum contact:		
Static	14.8 kg/cm	14.9 kg/cm
Centrifugal	39.9 kg/cm	34.5 kg/cm

# **Dimensions**





	CB-334D	CB-335D
	mm	mm
A Operating length	3120	3120
<b>B</b> Wheelbase	2321	2321
<b>C</b> Drum diameter	800	800
Drum shell thickness	13	13
<b>D</b> Tire diameter	_	770
E Height at steering wheel	1892	1892

	CB-334D	CB-335D	
	mm	mm	
F Height at ROPS	2550	2550	
<b>G</b> Ground clearance	260	260	
H Curb clearance	585	585	
Compaction width	1300	1300	
J Machine width	1390	1390	

# **Weights (approximate)**

Operating weights include lubricants, 80 operator, full fuel tank, full hydraulic system and half-full water tank.

	CB-334D	CB-335D	
	<b>с</b> Б- <b>334Б</b> kg	<b>СБ-333Б</b> kg	
Operating (without ROPS)	3850	3590	
Operating (with ROPS)	3965	3720	
Weight at front drum	1930	1940	
Weight at rear drum	1920	_	
Weight at rear wheels	_	1650	
Weight per rear wheel	_	412	

# **Service Refill Capacities**

	CB-334D	CB-335D	
	Liters	Liters	
Fuel Tank	48	48	
Crankcase	7.1	5.7	
Hydraulic fluid tank	35	35	
Hydraulic circuit	43	43	
Water Spray System	300	300	
Tire wetting system	20	20	

#### **Optional Equipment**

Note: Standard and optional equipment may vary. Consult your Caterpillar dealer for specifics.

#### **Roll Over Protective Structure (ROPS)**

is a two-post structure that bolts directly onto flanges welded to the machine frame. The ROPS meets criteria ISO 3471-1994.

**Sun Canopy** is a fiber-glass structure that blocks the operator's station from the sun. ROPS is required.

**Working Light Package** consists of two front headlights and one rear light.

**Roading Light Package** consists of two front headlights, one rear light, turn signals and hazard lights.

**Rotating Beacon** includes an amber beacon and mount that can be attached to machines with ROPS. An extra mount is needed for machines without ROPS.

**Seat Switch** requires operator to be seated for machine to be operated.

**Engine Tachometer** displays engine speed (rpm) on an analog dial.

**Back-up Alarm** is standard equipment, but it can be deducted for cost savings.

**Drum-End Gaurd System** helps prevent material from entering ends of drums.

**Tire Wetting System** allows a solvent to be sprayed on the tire surfaces, helping prevent asphalt from adhering to the tires. One spray nozzle is positioned above each tire. The system is controlled with a momentary switch on the control console. The system is fed by a 20 liters tank located on the left side of the operator's station. This option is available for the CB-335D only.

**Cocoa Mats** retain water as it is distributed by the water spray system. The mats allow water to seep out of them, providing continuous water distribution to drum surfaces. This option is available for the CB-334D only.

#### **Value Analysis**

#### **Versatile Operation**

- High-frequency vibratory system on CB-334D.
- CB-335D rubber tires make it effective on both asphalt and soil.

#### **Productivity**

- Responsive diesel power.
- High travel speeds.
- Nearly equal front-rear weight distribution.

#### **Easy Control**

- Single lever control of forward/ reverse speeds.
- Low-effort steering.
- Excellent visibility.

#### **Simplified Maintenance**

- Simple, durable design.
- Rugged construction for extended service life.
- Easy access to all major components.

## **Total Customer Support System**

**Parts availability** – most parts on dealer's shelf when you need them. Computer-controlled, emergency search system backup.

**Parts stock lists** – dealer helps you plan on-site parts stock to minimize your parts investment while maximizing machine availability.

**Service capability** – dealer's shop or fast field service by trained technicians using latest tools and technology.

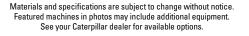
Machine management services – effective preventive maintenance programs, cost-effective repair options, customer meetings, operator and mechanic training.

**Remanufactured parts** – pumps and motors, engines, fuel system and charging system components available from dealer at 20-50% of new part cost.

**Literature support** – easy-to-use parts books, operation and maintenance manuals, and service manuals help you get maximum value from equipment.

Flexible financing – your dealer can arrange attractive financing on the entire line of Caterpillar equipment. Terms structured to meet cash flow requirements. See how easy it is to own, lease or rent Cat equipment.

# **CB-334D Double Drum Vibratory Asphalt Compactor CB-335D Combi Asphalt Compactor**



HEHG9550 (0499)hr

