



CB34
CB34XW
 Utility Compactor



CC34
 Utility Combi
 Compactor

	CB34	CB34 XW	CC34
Cat® C2.2 Diesel Engine			
Gross Power (SAEJ1995) @2400 rpm		34.1 kW (46 hp)	
Net Power (ISO9249) @2400 rpm		33 kW (45 hp)	
Operating Weight (with ROPS)	3940 kg (8,688 lb)	4200 kg (9,259 lb)	3670 kg (8,090 lb)
Compaction Width	1.3 m (51")	1.4 m (55")	1.3 m (51")

Caterpillar® C2.2 Engine

The C2.2 engine provides efficient power while meeting U.S. EPA Tier 4a engine emission requirements.

Power

The liquid-cooled C2.2 engine provides a gross power of 34.1 kW (46 hp) with a torque of 143 Nm for good performance and reliability on grades and in tough conditions.

Large Cooling System

The large cooling system with integrated water and oil coolers keep engine temperatures low in order to maximize fuel efficiency and minimize emissions.

High Ambient Cooling

The high ambient cooling system provides efficient operation in high ambient temperatures.

Low Sound Levels

Low sound levels are achieved in both operating speeds. An intermediate throttle position enables even quieter operation for optimum operator comfort.



Operator's Station

The convenient, comfortable operating environment with three-position seating provides good visibility and promotes day-long productivity.

Operator's Station

The operator's station incorporates a fully-equipped console and an adjustable suspension seat. Arm and wrist rests provide better operator comfort for day-long productivity. The steering wheel includes a steering knob for easy maneuverability in turns.

Instrument Panel

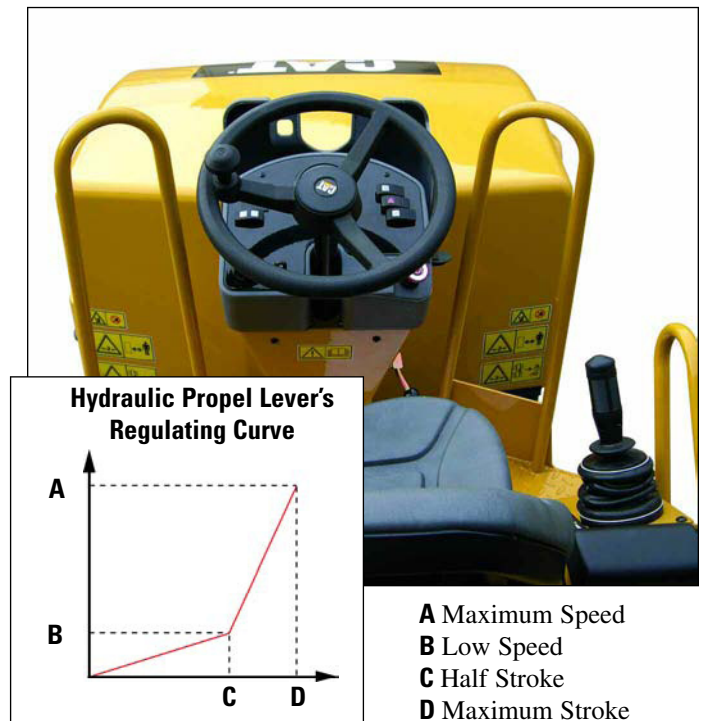
The easy-to-understand instrument panel integrates a fuel level indicator, hour meter and light indicators for machine functions. The key switch includes an automatic engine pre-heat feature that improves cold-weather starting.

Smooth Operation

The hydraulic propel lever's two step regulating curve provides smooth and precise control at low speed. Machine speed increases gradually in the first half of lever stroke for optimum control in confined areas. The second half of lever stroke enables the maximum propel speed to be reached quickly.

Foldable ROPS (Optional)

The foldable ROPS includes two gas shocks that assist the operator and folds forward or backward without the use of special tools.



Vibratory System

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

Dual Frequency Vibratory System

The standard vibratory system incorporates two frequencies of 61 Hz (3,660 vpm) and 69 Hz (4,140 vpm) in order to provide application versatility.

Vibratory Selection

A vibratory selection switch provides standard front, rear and both drum vibratory capabilities.

Automatic Vibratory Control

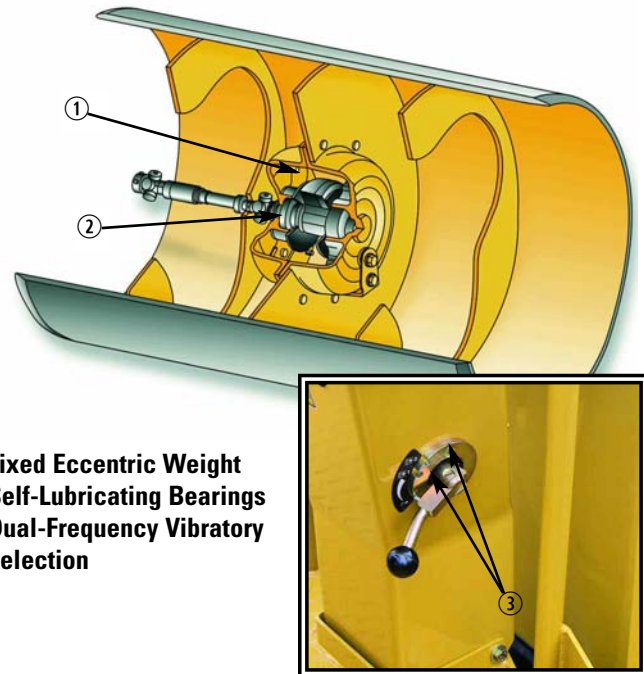
The vibratory system includes an automatic start feature that activates whenever the propel lever is moved from the neutral position.

Rear Drum Vibratory Delay

The rear drum vibratory delay feature controls the start of the rear drum in order to assist power management on slopes.

Pod-style Eccentric Weights

The eccentric weights are enclosed in a pod-style housing providing cleanliness that extends bearing life.



1 Fixed Eccentric Weight
2 Self-Lubricating Bearings
3 Dual-Frequency Vibratory Selection

Water Spray System

Corrosion-proof components provide long life and reliable operation.

Water Tank

A 300 L (79 gal) high-capacity polyethylene water tank is enclosed within the machine frame, providing extended operation. The large water tank fill and drain allow the system to be filled or drained within minutes.

Spray Capabilities

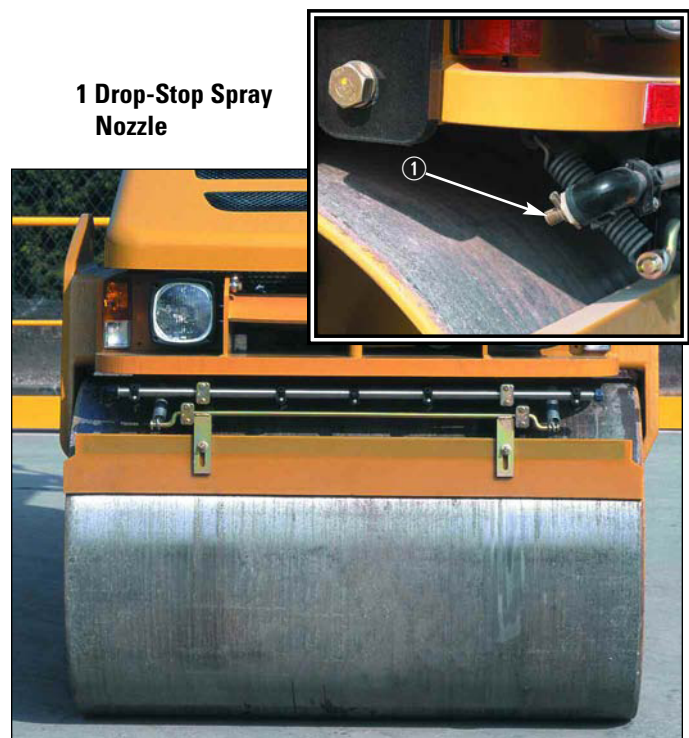
The standard pressurized water spray system with constant or intermittent capabilities provides extended operation between refills.

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

Triple water filtration reduces machine downtime caused by system clogs.



1 Drop-Stop Spray Nozzle

Extra Wide Drums

Wider drums on the CB34 XW provide increased production results on larger applications.

Increased Production

The CB34 XW is equipped with 1.4 m (55") wide drums and can cover greater mat widths in fewer overlapping passes.

Increased Amplitude

Wider drums and dual-frequency balanced with the higher amplitude setting makes this machine an excellent choice for thin asphalt lifts and larger job sites.



CC34 Tires Provide Uniform Compaction

The CC34 incorporates a steel, front drum with rear, pneumatic tires. The pneumatic tires provide even compaction on uneven surfaces.

Versatile Machine

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

High Contact Pressures

Four, 6 ply rubber tires generate high contact pressures that penetrate deep into the lift.

Flexible Tires

The flexible tires provide a kneading action resulting in a smooth, tight surface.

Self-Adjusting Scrapers

Each tire includes a self-adjusting scraper. The scrapers are designed for even wear and can be retracted when not in use, limiting wear.

Tire Spray System (Optional)

The tire spray system applies a solvent to the tires in order to prevent material from adhering to them.



1 Tire Spray Control (Optional)

Reliability and Serviceability

The CB34, CB34 XW and CC34 machines 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.

Oil-bath Lubrication

An oil-bath lubricates the eccentric weight bearings, extending routine maintenance to 3 year/3000 hour intervals.

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 engine oil, hydraulic system and vibratory system. Remote-mounted drains provide simplified collection of fluids.

Quick-Connect Hydraulic Test Ports

The quick-connect hydraulic test ports simplify system diagnosis.

Color-coded Electrical System

Electrical wiring is color-coded and numbered for simple troubleshooting. Nylon-braided wrap and all-weather connectors ensure electrical system integrity.



Engine

Caterpillar C2.2 four cylinder, diesel engine meets engine emission requirements.

Gross Power

SAE J1995	34.1 kW	46 hp
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Net Power

ISO 9249	33 kW	45 hp
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Specifications

Bore	84 mm	3.30"
Stroke	100 mm	3.94"
Displacement	2216 cm ³	87 in ³

- The net power ratings apply at a rated speed of 2400 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.

Transmission

CB34 and CB34 XW

A variable displacement piston pump supplies pressure flow to the fixed displacement hydraulic motors that drive the front and rear drums.

CC34

A variable displacement piston pump supplies pressure flow to the fixed displacement hydraulic motors that drive the front drum. The pump also supplies pressure flow to the two, fixed displacement motors that drive the rear wheels.

Speed Range

0-12.5 km/hr (0-8 mph)

Steering System

Priority-demand hydraulic power assist steering system provides smooth machine handling.

Minimum Turning Radius

CB34/CC34

Inside drum edge	3.0 m (9' 10")
Outside drum edge	4.3 m (14' 1")

CB34 XW

Inside drum edge	2.95 m (9' 8")
Outside drum edge	4.35 m (14' 4")

Steering Angle 35°

Instrumentation

The control console includes: steering wheel with knob, water spray system switch, vibratory drum selector switch, horn, hazard flasher control, turn signals, warning and working light switches, engine start switch with preheat and the secondary brake.

The instrument panel cluster integrates the fuel level indicator, service hour meter and also the light indicators for: roading lights, secondary brake, hydraulic oil temperature, engine coolant temperature, alternator, engine oil pressure, vibration on, engine preheat and the turn signals.

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 three-position lever for low, intermediate and high engine speed.

The control console, engine compartment and literature compartment are equipped with lockable covers.

Water Spray System

The water spray system includes easy to clean spray bars that are constructed of stainless steel for corrosion resistance. The water tank is constructed of reinforced polyethylene. An intermittent spray setting increases spray time by 50% over the continuous setting. Triple water filtration includes a filter in the tank fill spout, an in-line filter at the water pump and filters in each spray nozzle.

Electrical System

The 12-volt electrical system includes one maintenance-free Cat® battery with 750 cold cranking amps. The wiring is color-coded, numbered and wrapped in nylon braid. The system includes a 65-amp alternator.

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.

Wheels and Tires (CC34)

Four tires are mounted on a fixed axle. Each wheel includes a retractable, self-loading, self-adjusting scraper that helps remove asphalt and soil particles from the tires.

Optional Equipment

Battery Disconnect Switch
Biodegradable Hydraulic Oil
Brake Release Pump (CC34)
Cocoa Mats
Drum End Guards
Engine Tachometer
High Ambient Cooling System
Light Protector Grids
Non-Machined Drum Edges
Roading and Working Light Package
Roll-Over Protective Structure (ROPS)
ROPS (Foldable)s
Spark Arrestor Muffler
Sun Canopy
Suspension Seat with Seat Switch
Tire Spray System (CC34 only)
Traction Control
Warning Beacon
Water Distribution Mats

Tire Spray System (CC34)

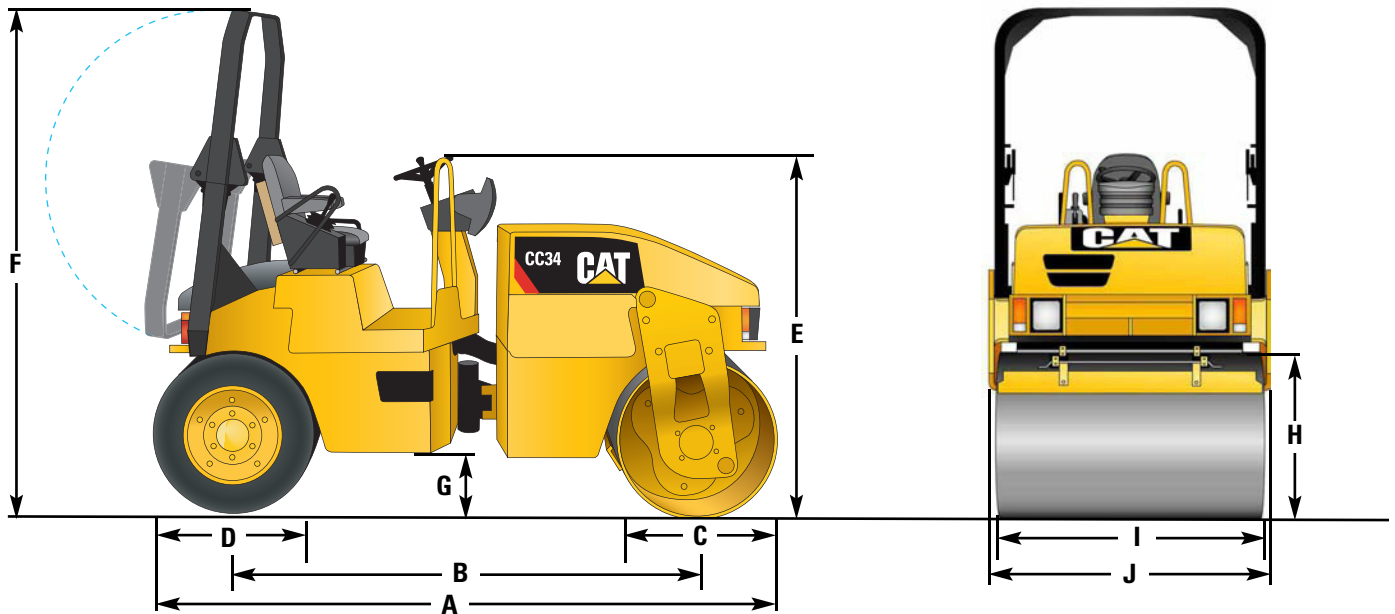
The optional tire spray system allows a solvent to be sprayed on the tire surfaces in order to prevent asphalt from adhering to the tires. One spray nozzle is positioned above each tire. The system is controlled with an on/off switch on the control console.

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 ± 35 degree steering angle, and a horizontal pin provides a ± 10 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 degree steering angle.

Dimensions

	CB34/CC34	CB34 XW
A Length	3.12 m (10' 3")	
B Wheelbase	2.32 m (7' 7")	
C Drum Diameter	800 mm (31")	
Drum Shell Thickness	13 mm (0.5")	15.5 mm (0.6")
D Tire Diameter (CC34)	770 mm (30")	—
E Height at Steering Wheel	1.84 m (6' 0")	
F Height at ROPS	2.56 m (8' 4")	
Height with ROPS Folded	1.89 m (6' 2")	
G Ground Clearance	284 mm (11")	
H Curb Clearance	602 mm (23.5")	
I Compaction Width	1.3 m (51")	1.4 m (55")
J Machine Width	1.39 m (55")	1.49 m (58")



Service Refill Capacities

	Liters	Gallons
Fuel Tank	57	15
Engine Oil w/Filter	10.6	2.8
Hydraulic Fluid Tank	48	12.7
Water Spray System	300	79.0
Tire Spray System	20	5.3

Compaction Characteristics

Vibratory Selection

CB34	Front, Rear or Both
CB34 XW	Front, Rear or Both
CC34	Front

Frequency

CB34/CC34	69 Hz	4,140 vpm
	61 Hz	3,660 vpm
CB34 XW	53 Hz	3,180 vpm
	48 Hz	2,880 vpm

Amplitude

CB34/CC34	0.37 mm	0.015"
CB34 XW	0.50 mm	0.020"

Centrifugal Force

CB34/CC34	33.1 kN	7,448 lb
CB34 XW	29.5 kN	6,638 lb

Static Linear Load

CB34/CC34	15.2 kg/cm	86 lb/in
CB34 XW	15 kg/cm	84 lb/in

Weights

	CB34	CB34 XW	CC34
w/ROPS	3940 kg (8,688 lb)	4200 kg (9,259 lb)	3670 kg (8,091 lb)
at front drum	1940 kg (4,278 lb)	2070 kg (4,564 lb)	1950 kg (4,300 lb)
at rear drum	2000 kg (4,410 lb)	2130 kg (4,696 lb)	—
at rear wheels	—	—	1720 kg (3,793 lb)
per wheel	—	—	430 kg (948 lb)

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

Caterpillar offers a comprehensive line of Utility Compactors

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



	CB14	CB14 XW	CB14 Full Flush
Operating Weight - kg (lb)	1620 (3,571)	1840 (4,057)	1600 (3,527)
Drum Width - mm (in)	800 (31)	1000 (39)	900/800 (35/31)
Frequency - Hz (vpm)		53.3 (3,780)	
Centrifugal Force - kN (lb)	10.3 (2,318)	11.4 (2,565)	10.3 (2,318)
Gross Power - kW (hp)		16.1 (21.6)	



	CB22	CB24	CC24	CB32
Operating Weight - kg (lb)	2500 (5,512)	2700 (5,953)	2400 (5,291)	3230 (7,121)
Drum Width - m (ft)	1.00 (3' 3")	1.20 (3' 11")	1.20 (3' 11")	1.3 (4' 3")
Frequency - Hz (vpm)		63/55 (3,780/3300)		
Centrifugal Force - kN (lb)	27.6/21.0 (6,210/4,725)	31.3/23.8 (7,043/5,355)	31.3/23.8 (7,043/5,355)	31.3/23.8 (7,043/5,355)
Gross Power - kW (hp)		24.4 (32.7)		

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