



Cat[®] CW34

Pneumatic Tire Roller

The Cat[®] CW34 is an eight wheel pneumatic tire roller that features a modular ballast system and flexible operating weights. It offers consistent compaction, good visibility, Eco-mode operation and excels on a variety of materials including asphalt and aggregates.

Compaction Performance

- The eight wheel rubber tire roller delivers a compaction width of 2.09 m (82") and operating weight range of 10 000 kg to 27 000 kg (22,050 lb to 59,525 lb).
- Ballast options include 6.5 metric tonnes (7.1 U.S. tons) of modular steel, 6.1 metric tonnes (6.7 U.S. tons) of non-modular steel, and a 3000 liter (793 gallon) water-tight chamber, providing versatility to match job site requirements.
- Front and rear wheel sets oscillate and provide vertical suspension to minimize bridging that can occur on uneven surfaces.
- Optional air-on-the run utilizes a single-point air-fill that balances tire pressures to help meet quality targets and job site requirements.
- Edge management options include a cut-off wheel that creates a vertical edge and a bevel edge that helps provide smoother transitions on and off the paved surface.

Pickup Prevention

- The standard pressurized water spray system with a capacity of 380 L (100 gal) is equipped with triple filtration and adjustable, intermittent spray settings to help manage flow.
- The optional emulsion spray system with dedicated 40 L (10.5 gal) tank, lines and spray bars provides utilization of release agents on the wheels for additional protection against asphalt adhesion
- Each wheel is equipped with a spray nozzle, adjustable high-strength scrapers, and water-retention cocoa mats that help keep the tires clean.
- Optional thermal aprons trap heat to prevent asphalt and aggregates from adhering to the tires.

Comfort, Visibility, and Control.

- The display with simplified navigational controls enables operators to customize screens to monitor current operating conditions including travel speed, fuel level, engine speed, and engine oil pressure.
- The pivoting operating station rotates 90° to either side to provide good visibility when working near obstacles.
- Touch-pad control provides easy activation of Eco-mode, propel-speed ranges, travel speed adjustment, and the tire spray system.
- ROPS are standard and can be equipped with an optional sun canopy.

Smooth Operating Powertrain

- Engines are available to meet regional emission requirements
- Eco-mode operates at 1900 rpm to reduce fuel consumption and lower sound levels.
- Exclusive two-speed hydrostatic propel system provides speeds up to 19 km/hr (12 mph).
- The electronic propel system is designed to shift smoothly between speed ranges while also providing the ability to coast for a fuel-saving enhancement.
- The deceleration pedal enables the operator to gradually reduce speed when retracting the propel lever.



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Safer Operation

- Seat belt alert system utilizes a green beacon mounted on top of the ROPS to indicate when the seat belt is in use. In addition, an audible alarm and on-screen indicator help encourage safer operation.
- The standard 75 mm (3"), high-visibility seat belt allows for easier visual confirmation.
- The optional fore and aft camera system mounted on the front and rear of the ROPS provides outstanding visibility when approaching obstacles. The camera view is integrated into a dedicated operating display.
- Standard LED working lights located in the front and rear bumpers deliver fore and aft illumination.
- Optional auxiliary LED lighting mounted to the ROPS enhances overall job site illumination.

VisionLink™

- VisionLink™ is a cloud-based software application that provides data to your desktop or mobile device, taking the guesswork out of fleet management with key insights to maximize performance – regardless of fleet size or equipment manufacturer.
- The system provides maintenance needs, machine hours, location, fuel usage, idle time, diagnostic codes, and other machine data to your mobile device, desktop or through an API to other software applications.

	Standard	Optional
OPERATING ENVIRONMENT		
Adjustable armrests	✓	
Air conditioner – requires Cab		✓
Cab, ROPS with heat and defrost		✓
Platform ROPS/FOPS	✓	
Propel lever with 6-button control		✓
Power steering	✓	
ROPS		✓
ROPS, Sun canopy		✓
Rotating operating station	✓	
Seat belt, high visibility – 75 mm (3")		✓
Suspension seat, cloth		✓
Suspension seat, cloth, heated		✓
Suspension seat, vinyl	✓	
Suspension seat, vinyl, heated		✓
Vandalism protection	✓	

TECHNOLOGY		
Infrared asphalt temperature sensors		✓
GNSS Mapping - Temperature and Pass-count		✓
VisionLink™	✓	
- Remote Flash	✓	
- Remote Troubleshooting	✓	

POWERTRAIN		
Cat® C4.4, 4-cylinder	✓	
Automatic idle shutdown	✓	
Automatic speed control	✓	
Variable-3 speed transmission		✓

ELECTRICAL SYSTEM		
100 amp alternator	✓	
24-volt charging system	✓	
Automotive-type fuse system	✓	
Battery (2) - maintenance-free	✓	
Cat Electronic Technician (Cat ET)	✓	
Remote start/charge receptacle	✓	

	Standard	Optional
WHEELS AND SPRAY SYSTEM		
All-wheel oscillation	✓	
Ballast – factory installed steel blocks		✓
Cocoa mat, with scraper		✓
Edge management - cutoff, bevel		✓
Emulsion spray system		
Front wheel vertical suspension	✓	
Pressurized water spray system	✓	
Spare tire		✓
Steps, refill assist		✓
Thermal tire aprons		✓
Tire inflation system, manual		✓
Tire inflation system, automatic		✓
Tires – 13/80 R20 MX C-1 Radial		✓
Tires – 11.00-20 TI 18PR C-1 Bias		✓

SERVICE AND MAINTENANCE		
Grouped filters with ground level access	✓	
Hydraulic oil – bio-degradeable		✓
Remote access drains	✓	
Sampling ports for Scheduled Oil Sampling (S·O·S SM)	✓	
Sight Gauges	✓	
- Engine coolant	✓	
- Hydraulic oil	✓	

SAFETY		
Alarm, back-up	✓	
Horn, warning (front & rear)	✓	
Lights, halogen		✓
Lights, LED		✓
Mirrors, external		✓
Rear backup light and stop indication	✓	
Roading lights with turn signals		✓
Working lights		✓

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Technical Specifications

Power Train

Engine Model	Cat C4.4	
Emissions	Meets U.S. EPA Tier 4 Final emission standards	
Engine power @ 2200 rpm (ISO 14396-2002)	98 kW	131 hp
	Meets Brazil MAR-1, emits equivalent to U.S. EPA Tier 3 and EU Stage IIIA	
Engine power @ 2200 rpm (ISO 14396-2002)	96.5 kW	129 hp
Speed – Low	0-6 km/h	0-4 mph
Speed – Medium	12 km/h	0-7 mph
Speed – High	19 km/h	0-12 mph

Service Refill Capacities

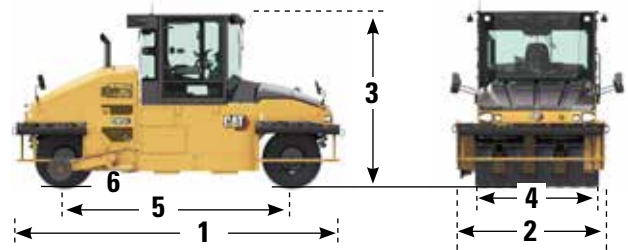
Fuel tank	270 L	71 gal
Diesel Exhaust Fluid (DEF) tank <i>(Tier 4 Final)</i>	19 L	5 gal
Cooling system	27 L	7 gal
Engine oil	9 L	2.4 gal
Hydraulic tank	32 L	8.5 gal
Water spray tank	380 L	100 gal
Emulsion tank	40 L	10.5 gal

Ballast	Machine Weight		Load per Wheel
Base machine	10 000 kg - 10 mt	22,050 lb - 9.84 t	1.25 mt
Base w/water only	13 000 kg - 13 mt	28,660 lb	1.62 mt
Internal steel	14 000 kg - 14 mt	30,800 lb	1.75 mt
Internal steel	16 000 kg - 16 mt	35,000 lb	2.00 mt
Internal steel	18 000 kg - 18 mt	39,600 lb	2.25 mt
Internal steel	20 000 kg - 20 mt	44,000 lb	2.50 mt
Internal steel and water	24 000 kg - 24 mt	52,800 lb	3.00 mt
Modular steel, internal steel, and water	27 000 kg - 27 mt	59,400 lb	3.40 mt

Weights shown include 80 kg (176 lb) operator, full capacity fuel tank, full capacity water tank, Cab and all machine options. Weights are approximate and may vary by market due to standard and optional equipment requirements. Water and sand ballast are not supplied by the manufacturer.

Dimensions

1	Overall length	5350 mm	17' 6"
2	Overall width	2160 mm	85"
3	Overall height - ROPS	3000 mm	9' 10"
4	Compaction width	2090 mm	82"
	Tire overlap	42 mm	1.5"
5	Wheelbase	3900 mm	12' 9"
6	Ground clearance without ballast	309 mm	12"
	Ground clearance with ballast	260 mm	10"



Environmental Declaration

The following information applies to the machine at the time of final manufacture as configured for sale in the regions covered in this document. The content of this declaration is valid as of the date issued; however, content related to machine features and specifications are subject to change without notice. For additional information, please see the machine's Operation and Maintenance Manual.

For more information on sustainability in action and our progress, please visit www.caterpillar.com/en/company/sustainability.html.

ENGINE

- The Cat® C4.4 engine is available in configurations that meet U.S. EPA Tier 4 Final emission standards.
- Cat U.S. EPA Tier 4 Final engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) and are compatible* with ULSD blended with the following lower-carbon intensity fuels** up to:
 - ✓ 20% biodiesel FAME (fatty acid methyl ester)***
 - ✓ 100% renewable diesel, HVO (hydrogenated vegetable oil) and GTL (gas-to-liquid) fuels
- Cat engines meet Brazil MAR-1 emission standards, emit equivalent to U.S. EPA Tier 3 and EU Stage IIIA, are compatible with diesel fuel blended with the following lower-carbon intensity fuels up to:
 - ✓ 100% biodiesel FAME (fatty acid methyl ester)****
 - ✓ 100% renewable diesel, HVO (hydrogenated vegetable oil) and GTL (gas-to-liquid) fuels

Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.

* While Caterpillar engines are compatible with these alternative fuels, some regions may not allow their use.

** Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.

*** Engines with no aftertreatment devices are compatible with higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer).

**** For use of blends higher than 20% biodiesel, consult your Cat dealer.

AIR CONDITIONING SYSTEM

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 2.1 kg (4.63 lb) of refrigerant, which has a CO2 equivalent of 3.003 metric tonnes (3.310 tons).

PAINT

- Based on best available knowledge, the maximum allowable concentration, measured in parts per million (PPM), of the following heavy metals in paint are:
 - Barium < 0.01%
 - Cadmium < 0.01%
 - Chromium < 0.01%
 - Lead < 0.01%

SOUND PERFORMANCE

Operator sound pressure levels were measured at 70% of the maximum engine cooling fan speed. Exterior sound pressure levels were measured at 100% of the maximum engine cooling fan speed.

Operator Sound Pressure Level w/cab (ISO 6396:2008) – 82 dB(A)

Exterior Sound Power Level w/cab (ISO 6395:2008) – 103 dB(A)

- The dynamic operator sound pressure level measurements are performed according to the dynamic test procedures that are specified in ISO 6396:2008. The measurements were made with the cab doors and the cab windows closed.
- The dynamic spectator sound power level measurements are performed according to the dynamic test procedures that are specified in ISO 6395:2008.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/windows open) for extended periods or in a noisy environment.

OILS AND FLUIDS

- Caterpillar factory fills with ethylene glycol coolants. Cat Diesel Engine Antifreeze/Coolant (DEAC) and Cat Extended Life Coolant (ELC) can be recycled. Consult your Cat dealer for more information.
- Additional fluids are likely to be present, please consult the Operations and Maintenance Manual or the Application and Installation guide for complete fluid recommendations and maintenance intervals.

FEATURES AND TECHNOLOGY

- The following features and technology may contribute to fuel savings and/or carbon reduction. Features may vary. Consult your Cat dealer for details.
 - Eco-mode operates at lower engine rpm to reduce fuel consumption
 - Variable speed, hydraulic fan helps reduce power demand
 - Auto-idle shutdown conserves fuel
 - Compaction control option helps increase operator efficiency
 - Extended maintenance intervals reduce fluid and filter consumption

RECYCLING

The materials included in machines are categorized as below with approximate weight percentage. Because of variations of product configurations, the following values in the table may vary.

Material Type	Weight Percentage
Steel	68.78%
Iron	11.25%
Rubber	7.16%
Fluid	4.52%
Other	2.22%
Plastic	2.14%
Non-ferrous Metal	1.73%
Uncategorized	1.14%
Mixed: Metal and Nonmetal	0.60%
Mixed: Metal	0.45%
Mixed Nonmetallic	0.01%
Total	100%

- A machine with higher recyclability rate will ensure more efficient usage of valuable natural resources and enhance End-of-Life value of the product. According to ISO 16714 (Earthmoving machinery – Recyclability and recoverability – Terminology and calculation method), recyclability rate is defined as percentage by mass (mass fraction in percent) of the new machine potentially able to be recycled, reused or both.

All parts in the bill of material are first evaluated by component type based on a list of components defined by the ISO 16714 and Japan CEMA (Construction Equipment Manufacturers Association) standards. Remaining parts are further evaluated for recyclability based on material type.

Because of variations of product configurations, the following value in the table may vary.

Recyclability – 96%

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Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

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