



# Cat<sup>®</sup> CW16

## Pneumatic Tire Roller

*The Cat<sup>®</sup> CW16 Pneumatic Compactor offers an efficient Cat engine that delivers smooth, reliable compaction performance on asphalt, chip-seal, soil, and other granular materials.*

### Compaction Performance

- The standard nine-wheel CW16 delivers a compaction width of 1.75 m (69") and operating weight range of 5200 kg to 15 000 kg (11,464 lb to 33,000 lb).
- The 11-wheel option offers a 2.13 m (84") compaction width and weight range of 5300 kg to 15 000 kg (11,685 lb to 33,000 lbs).
- Ballast options include steel, sand, and/or water, making it easy to utilize available resources to adjust operating weights that match job site requirements.
- Oscillating front wheels help avoid bridging over uneven surfaces for optimal compaction results.
- The weight per wheel for the standard 9-wheel CW16 can be adjusted from 580 kg to 1670 kg (1,280 lbs to 3,680 lbs).
- The weight per wheel for the optional 11-wheel version can be adjusted from 480 kg to 1350 kg (1,060 lbs to 2,975 lbs).
- An easy access single-point air-fill balances tire pressures to help meet quality targets and other job site requirements.

### Pickup Prevention

- The standard pressurized water spray system is equipped with triple filtration and adjustable, intermittent spray settings to help manage flow.
- Each wheel is equipped with a spray nozzle, adjustable high-strength scrapers, and water-retention cocoa mats that help keep the wheels clean.
- Optional thermal aprons help trap heat to prevent asphalt and aggregates from adhering to the tires.

### Comfort, Visibility, and Control.

- The touchscreen color display with easy-to-use 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 42° to the left and 35° to the right to provide visibility options when working near obstacles.
- Dual-side steps provide ingress and egress access.
- 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 shifts 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
<b>OPERATING ENVIRONMENT</b>		
Adjustable armrests	✓	
Mirrors		✓
Platform ROPS/FOPS	✓	
Propel lever with 4-button control	✓	
Power steering	✓	
Rotating operating station	✓	
Seat belt, high visibility – 76 mm (3")	✓	
Sun canopy		✓
Suspension seat	✓	
Suspension seat - with heat		✓
Vandalism protection	✓	

<b>TECHNOLOGY</b>		
Infrared asphalt temperature sensors		✓
GNSS Mapping - Temperature and Pass-count		✓
VisonLink®	✓	
- Remote Flash	✓	
- Remote Troubleshooting	✓	

<b>POWERTRAIN</b>		
Cat® C3.6, 4-cylinder	✓	
Hitch - offset		✓
Variable-speed transmission	✓	

<b>ELECTRICAL SYSTEM</b>		
120 amp alternator	✓	
12-volt charging system	✓	
Automotive-type fuse system	✓	
Battery - maintenance-free	✓	
Cat Electronic Technician (Cat ET)	✓	
Remote start/charge receptacle	✓	

	Standard	Optional
<b>WHEELS AND SPRAY SYSTEM</b>		
9-wheel system	✓	
11-wheel system		✓
Ballast – factory installed steel blocks		✓
Edge management - cutoff, bevel		✓
Front wheel oscillation	✓	
Pressurized spray system	✓	
Rear fender – 11 wheel		✓
Spare tire		✓
Thermal aprons		✓
Tires – 12-ply Radial		✓
Tires – 14-ply Bias		✓

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

<b>SAFETY</b>		
Alarm, back-up	✓	
Cameras - front and rear		✓
Horn, warning (front & rear)	✓	
LED Working Lights	✓	
LED Working Lights with turn signals		✓
LED Auxiliary Lighting – 1000/2000 Lumin		✓
Mirror package		✓
Steps, front drum fuel refill	✓	
Steps, rear drum water spray refill		✓
Warning, LED safety beacons	✓	

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## Technical Specifications

### Power Train

Engine Model	Cat C3.6	
Engine power @ 2200 rpm (ISO 14396-2002)	75 kW	100.6 hp
<b>Meets U.S. EPA Tier 4 Final and EU Stage V emission standards.</b>		
Engine Model	Cat C3.6	
Engine power @ 2200 rpm (ISO 14396-2002)	75 kW	100.6 hp
<b>Emits equivalent to U.S. EPA Tier 3 and EU Stage IIIA.</b>		
Speed – Low	0-9 km/h	0-6 mph
Speed – High	19 km/h	0-12 mph

### Service Refill Capacities

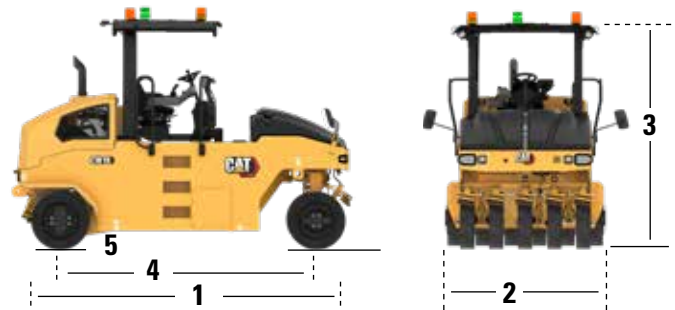
Fuel tank	135 L	35 gal
Diesel Exhaust Fluid (DEF) tank	19 L	5 gal
Cooling system	16.6 L	4.4 gal
Engine oil	6.5 L	1.7 gal
Hydraulic tank	31.9 L	8.4 gal
Water spray tank	348 L	92 gal

### Machine Weight

Base Machine	Empty	5200 kg	11,164 lb
	Water Only	8700 kg	19,180 lb
5.2 Tonne	Wet Sand	12 200 kg	26,896 lb
	Steel Only	8500 kg	18,739 lb
9.3 Tonne	Steel + Water	11 750 kg	25,904 lb
	Steel + Wet Sand	15 000 kg	33,069 lb
10.4 Tonne	Steel Only	8500 kg	18,739 lb
	Steel + Water	11 750 kg	25,904 lb
13 Tonne	Steel + Wet Sand	15 000 kg	33,069 lb
	Steel Only	8500 kg	18,739 lb
13 Tonne	Steel + Water	11 750 kg	25,904 lb
	Steel + Wet Sand	15 000 kg	33,069 lb

### Dimensions

1	Overall length	4462 mm	14.6'
2	Compaction width - 9 wheel radial tire	1728 mm	68"
	- 9 wheel bias tire	1754 mm	69"
	- 11 wheel radial tire	2103 mm	83"
	- 11 wheel bias tire	2132 mm	84"
3	Wheel overlap - radial tire	32 mm	1.26"
	- bias tire	36 mm	1.42"
3	Overall height - ROPS	3000 mm	9' 10"
4	Wheelbase	3340 mm	10' 11"
5	Ground clearance	156 mm	6"



## 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](http://www.caterpillar.com/en/company/sustainability.html).

### ENGINE

- The Cat® C3.6 engine is available in configurations that meet U.S. EPA Tier 4 Final and EU Stage V emission standards.
- Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels\*\* up to:
  - ✓ 20% biodiesel FAME (fatty acid methyl ester)\*
  - ✓ 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels
- Cat engines that 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.

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

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

### 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

With cooling fan speed at 70% of maximum value, engines meeting U.S. EPA Tier 4 Final or EU Stage V:

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Operator Sound Pressure Level (ISO 6396:2008) – 87 dB(A)

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

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With cooling fan speed at 70% of maximum value and engines that emit equivalent to U.S. EPA Tier 3 or EU Stage IIIA:

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Operator Sound Pressure Level (ISO 6396:2008) – 83.7 dB(A)

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Exterior Sound Power Level (ISO 6395:2008) – 102 dB(A)

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- Hearing protection may be needed when operating with an open operator station 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.
- Cat Bio HYDO™ Advanced is an EU Ecolabel approved biodegradable hydraulic oil.
- 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

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For more complete information on Cat products, dealer services and industry solutions, visit us on the web at [www.cat.com](http://www.cat.com)

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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(Not available in Brazil, Europe, or Korea)

