



# Cat<sup>®</sup> CW16

## PNEUMATIC TIRE ROLLER

### Top Features

The Cat<sup>®</sup> CW16 is a standard 9 wheel pneumatic roller with an option to increase to 11 wheels. Equipped with an efficient Cat engine, this machine delivers smooth, reliable compaction performance on asphalt and soft base materials.

- **Exceptional Visibility and Control** with a rotating operating station, LCD display and touch-pad machine functions. ROPS or Sun Canopy options are available.
- **Smooth Operating Powertrain** with Eco-mode, electronic propel control and smooth braking system. An exclusive two-speed hydrostatic propel system delivers excellent maneuverability with speeds up to 19 km/hr (12 mph). The system shifts smoothly between speed ranges while also providing the ability to coast for a fuel saving enhancement.

- **Versatile Compaction Performance** is offered by the flexible ballast options, and oscillating front wheels. Ballast options include steel, sand, and water, making it easy to adjust operating weights and match job site requirements. Oscillating front wheels deliver compaction across the entire machine width for excellent results.
- **Pickup Prevention** provided by the pressurized water spray system, wheel scrapers or cocoa mats, and optional heat retention aprons help keep asphalt and aggregates on the road surface where they belong.
- **Best Lifetime Value** delivered through Eco-mode, efficient engine, and exclusive propel control minimize life-time operating costs and maximize profit.

### Specifications

#### Weights

Operating Weights		Load per Wheel	
<b>CW16 w/Standard 9 Wheels</b>			
Base machine	5200 kg	11,464 lb	0.57 mt
Maximum machine	15 000 kg	33,069 lb	1.67 mt
<b>CW16 w/11 Wheel Option</b>			
Base machine	5300 kg	11,685 lb	0.48 mt
Maximum machine	15 000 kg	33,069 lb	1.36 mt

#### Engine – Powertrain

<b>Cat C3.4B ACERT™ Engine*</b>	75 kW	101.9 hp (M)	100.5 hp (I)
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\* Engine meets U.S. EPA Tier 4 Final and EU Stage IV emissions

• Turbo-charged

Number of cylinders	4
Rated speed	2200 rpm

<b>Cat C4.4 ACERT Engine**</b>	75 kW	101.9 hp (M)	100.5 hp (I)
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\*\* Engine meets emissions equivalent to U.S. EPA Tier 3, EU Stage IIIA, and China Stage III.

Number of cylinders	4
Rated speed	2200 rpm

#### Travel Speed Ranges:

low	0 - 9 km/hr	6 mph
high	0 - 19 km/hr	12 mph

#### Service Refill Capacities

##### CW16 w/C3.4B Engine

Fuel tank	146 L	38 gal
DEF tank	19 L	5 gal
Cooling system	16.6 L	4.4 gal
Engine oil w/filter	6.5 L	1.7 gal
Hydraulic tank	31.9 L	8.4 gal
Water tank	348 L	92 gal

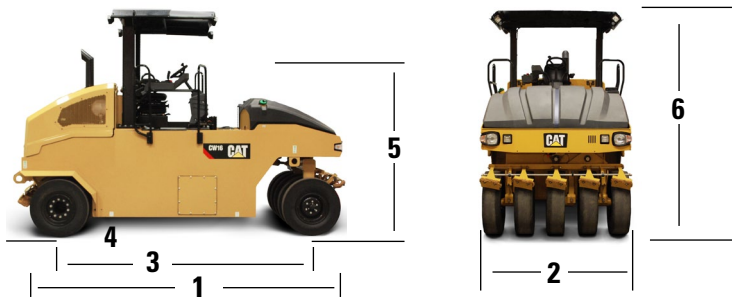
##### CW16 w/C4.4 Engine

Fuel tank	146 L	38 gal
Cooling system	18.3 L	4.8 gal
Engine oil w/filter	9.5 L	2.5 gal
Hydraulic tank	31.9 L	8.4 gal
Water tank	348 L	92 gal



# CW16 Pneumatic Tire Roller

## Dimensions



<b>1</b> Overall length	4290 mm	14' 1"
<b>2</b> Compaction width		
9 wheel - Radial	1728 mm	68"
9 wheel - Bias	1754 mm	69"
11 wheel - Radial	2103 mm	83"
11 wheel - Bias	2132 mm	84"
Tire overlap - Radial	32 mm	1.25"
Tire overlap - Bias	36 mm	1.42"
<b>3</b> Wheelbase	3340 mm	10' 11"
<b>4</b> Ground clearance	267 mm	10.5"
<b>5</b> Height (steering wheel)	2320 mm	91"
<b>6</b> Height (ROPS)	3000 mm	9' 10"

## Ground Contact Pressures

### Weight per Wheel

Average Wheel Load	Tire Pressure	kPa	12-Ply 7.5 x 15 Radial Tire								14-Ply 7.5 x 15 Bias Tire							
			344	413	482	550	619	688	757	344	413	482	550	619	688	757	826	862
			psi	60	70	80	90	100	110	50	60	70	80	90	100	110	120	125
545 kg 1,200 lb	GCP	kPa	236	266	284	306	317	317	344	243	266	284	295	317	330	344	359	367
		psi	34	39	41	44	46	46	50	35	39	41	43	46	48	50	52	53
970 kg 2,145 lb	GCP	kPa	250	284	314	343	369	378	410	259	295	321	343	369	388	420	421	427
		psi	36	41	46	50	54	55	60	38	43	47	50	54	56	60	61	62
1440 kg 3,180 lb	GCP	kPa	280	304	331	358	390	405	607	273	312	336	364	390	413	437	465	475
		psi	41	44	48	52	57	59	88	40	45	49	53	57	60	64	68	69
1920 kg 4,220 lb	GCP	kPa	296	319	346	368	387	403	440	309	319	341	354	372	387	403	414	417
		psi	43	47	50	53	56	59	64	45	47	49	51	54	56	59	60	61

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QEHQ1965 (12-15)

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