CW34 PNEUMATIC TIRE ROLLER

BUILT FOR IT.
THE PRESSURE IS ON
WITH THE CW34 PNEUMATIC ROLLER

PRODUCTIVE IN ANY APPLICATION
Your crew needs a roller that can adjust on the fly to changing conditions, and even applications. The Cat® CW34 Pneumatic Tire Roller does exactly that. The roller easily takes on (or sheds) ballast to deliver the varied contact pressures you need. The result is consistently achieving density targets, whether compacting granular materials or asphalt. The success continues through final compaction, where precise contact pressures provide the proper finishing touches.

COMPACtion PERFORMANCE
– Compaction width:
  – 2090 mm (82”)
– Versatile operating weight
– Ballast systems for easy weight adjustment
– Optional Air-on-the-Run tool automatically adjusts tire pressure

VISIBILITY, CONTROL AND COMFORT
– Easy-to-reach, responsive controls
– Intuitive console design
– Sliding and rotating operator station

UNMATCHED UPTIME AND VALUE
– Powered by durable, reliable Cat engines
– Standard 500-hour engine oil service interval maximizes uptime and minimizes lifetime operating costs
– Large cooling system keeps components cool, even in high ambient temperatures, for long life
– Advanced water spray and emulsion systems prevent asphalt pickup and costly on-site adjustments

1. Flexible Ballast Options
2. Modular Ballast
3. Cat Compaction Control (Option)
4. Roomy Operating Environment
5. Air-on-the-Run (Option)
6. Edge Cutter / Compactor (Option)
APPLICATIONS

- Highways
- City streets
- County roads
- Lane additions
- Overlays
- Industrial sites
- Parking lots
- Airport runways

- Production-sized jobs
- Base materials
- Binder course
- Wear course
- Soil applications
- Lime or cement compaction
COMPACTION PERFORMANCE
MANY OPTIONS AVAILABLE

EASY ADJUSTMENTS MAKE THE DIFFERENCE
Cat CW34 Pneumatic Tire Roller is able to work on granular material and asphalt, enabling you to compact everything from a sub-base to the surface lift of asphalt with a single machine. When extra pressure is (or isn’t) needed on a specific portion of a job, you can easily adjust the ballast—or take advantage of the Air-on-the-Run option—and fine-tune the roller for your working conditions.

OSCILLATING TIRES
– Oscillating front and rear tires deliver vertical and horizontal forces that reduce air voids, ensuring surface uniformity
– Vertical suspension improves results on uneven surfaces by uncovering voids and enabling consistent, uniform compaction

FLEXIBLE BALLAST
– Ballast options include sand, steel and water
– Modular and non-modular steel ballast option
  • 6.5 metric ton (7.1 U.S. ton) modular steel
  • 6.1 metric ton (6.7 U.S. ton) non-modular steel
  • 3 cu m (793 gal) water-tight chamber
– Baffled compartments prevent surge, balance weight
– Large doors provide easy component access
– Large drain port

The CW34 features modular steel ballast that are easy to add or remove.
PICK-UP PREVENTION

A SMOOTH FINAL STEP
A paving job can go from success to failure in a hurry if the tires start picking up asphalt. That’s why Caterpillar placed special emphasis on the design and functionality of water spray and emulsion systems. If each tire isn’t properly covered, all your previous hard work can vanish.

KEY FEATURES
– Dedicated spray nozzles for each tire
– Standard pressurized system includes water pump, triple filtration, and adjustable intermittent operation
– Optional emulsion spray system with dedicated tank, lines and spray bars enables utilization of release agents on the wheels for additional protection against asphalt adhesion

OTHER ASPHALT PICKUP PREVENTIONS
• Tires equipped with self-adjusting scrapers
• Optional cocoa mats improve water coverage
• Heat-retention covers trap heat
The CW34 operates efficiently at temperatures up to 49° C (120° F) with maximum engine load, due to the high-volume cooling system and large fan.

ENGİNE AND POWERTRAIN

POWER AND PRECISION

LOWER FUEL CONSUMPTION, SOUND LEVELS
Your operators need power to get the job done, hour after hour, and the Cat engine delivers. The engine does more than propel the roller. It also helps reduce fuel consumption. You can have your power—and your fuel savings, too.

CW34 POWERTRAIN
– Standard Eco-mode provides fuel efficiency and reduces sound levels
– Variable electronic throttle
– Transmission coasting feature saves fuel and reduces sound levels
The following engine meets Brazil MAR-1 emission standards.

<table>
<thead>
<tr>
<th>Machine</th>
<th>Engine</th>
<th>Power Rating at 2200 RPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>CW34</td>
<td>Cat C4.4 ACERT™</td>
<td>96.5 kW, 131.2 hp (M), 129 hp (I)</td>
</tr>
</tbody>
</table>

**REDUCED FUEL CONSUMPTION AND LOWER SOUND LEVELS**

Don’t waste fuel or power, Eco-mode optimizes engine speed and delivers the power when needed.

**Eco-mode**
- Eco-mode, utilizes an engine speed of 1900 rpm for reduced fuel consumption and lower sound levels
- Well suited for most applications

**Automatic Engine Speed Control**
- Operating in intermediate or high gear, the system shifts smoothly through the speed ranges and has a maximum speed of 19 km/hr (12 mph) for quick movement around and between job sites
- System has the ability to coast, leading to less fuel consumption and lower sound levels for a more comfortable environment
CW34 COMFORT AND CONTROL
CAT COMPACTION CONTROL

THE CONFIDENCE YOU NEED
Your operators need answers while they’re rolling. What is the temperature? Where have I been, and where do I go next? The optional Cat Compaction Control helps provide those answers. The result: operators who can quickly adjust to changing conditions—and at the end of the day are confident the job was done right.

KEY BENEFITS
- Maximize density
- High performance and efficiency; no unnecessary passes
- Hit mats at the optimal temperatures
- Ensure complete coverage
- Simplify night-time operation

CAT COMPACTION CONTROL FEATURES
- Easy-to-use interface
- Pass-count mapping keeps operator informed regarding the number of completed passes
- Operator informed of mat temperatures through infrared sensors, located on both the front and rear for accuracy
- Sensors combine with mapping to inform operator when optimal conditions exist, and where compaction has occurred
- Temperature mapping records data for future analysis and quality control documentation

Boost operator productivity by preventing unnecessary passes.
ENHANCED VISIBILITY, SIMPLIFIED OPERATION, REDUCED SOUND

– Full floor-to-ceiling glass on cab-equipped machines enables good sight lines to tire edges on both sides of the machine
– Operator can easily view 1 m x 1 m (3.2’ x 3.2’) in front of machine
– Optional sun canopy can be added to the ROPS for increased protection in adverse conditions
– Sliding and pivoting operator station rotates 90° to either side for ultimate comfort and control
– New console design
– LCD display and push button machine controls simplify operation for an all-around comfortable operating environment
– Exclusive automotive-type powertrain with continuously variable engine speed provides smooth shifting through three speed ranges
– Engine’s ability to “coast” lowers sound levels

OTHER HIGHLIGHTS

– Eco-mode saves fuel, reduces sound levels
– Eight 13/80 R20 rubber tires provide overall compaction width of 2090 mm (82”) with 45 mm (1.8”) overlap
– Air-on-the-Run option enables operator to quickly adjust tire pressures to increase or decrease static loads for optimal surface quality
– Machine controller compatible with Cat Electronic Technician
CW34 SPECIFICATIONS

Engine – Powertrain

<table>
<thead>
<tr>
<th>Engine Model: Cat C4.4 w/ACERT Technology (Meets Brazil MAR-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gross Power: 96.5 kW</td>
</tr>
<tr>
<td>129 hp Imperial 131.2 hp metric</td>
</tr>
<tr>
<td>Number of Cylinders 4</td>
</tr>
<tr>
<td>Rated Speed 2200 rpm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Speed Ranges:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low 0 - 6 km/hr 0 - 4 mph</td>
</tr>
<tr>
<td>Medium 0 - 12 km/hr 0 - 7 mph</td>
</tr>
<tr>
<td>High 0 - 19 km/hr 0 - 12 mph</td>
</tr>
</tbody>
</table>

Dimensions

| 1 Overall length 5350 mm 17’ 6" |
| 2 Compaction width 2090 mm 82" |
| Tire overlap 45 mm 1.8" |
| 3 Frame width 2160 mm 7’ 1" |
| 4 Wheelbase 3900 mm 12’ 9" |
| 5 Ground clearance |
| - without ballast 309 mm 12" |
| - with ballast 260 mm 10" |
| 6 Height (steering wheel) 2450 mm 96" |
| 7 Height (cab, ROPS) 3000 mm 9’ 10" |

Service Refill Capacities

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>Fuel Tank 270 L 71 gal</td>
<td></td>
</tr>
<tr>
<td>Cooling System 27 L 7 gal</td>
<td></td>
</tr>
<tr>
<td>Engine Oil 9 L 2.4 gal</td>
<td></td>
</tr>
<tr>
<td>Hydraulic Tank 32 L 8.5 gal</td>
<td></td>
</tr>
<tr>
<td>Water Tank 380 L 100 gal</td>
<td></td>
</tr>
<tr>
<td>Emulsion Tank 40 L 10.5 gal</td>
<td></td>
</tr>
</tbody>
</table>
CW34 SPECIFICATIONS

Weights

<table>
<thead>
<tr>
<th>CW34*</th>
<th>Operating Weight</th>
<th>Load per Wheel</th>
</tr>
</thead>
<tbody>
<tr>
<td>w/Sun canopy</td>
<td>8625 kg</td>
<td>19,015 lb</td>
</tr>
<tr>
<td>w/ROPS</td>
<td>9000 kg</td>
<td>19,842 lb</td>
</tr>
<tr>
<td>w/Cab</td>
<td>9650 kg</td>
<td>21,275 lb</td>
</tr>
<tr>
<td>w/Water</td>
<td>12,000 kg</td>
<td>26,455 lb</td>
</tr>
<tr>
<td>w/Internal steel and water</td>
<td>13,500 kg</td>
<td>29,762 lb</td>
</tr>
<tr>
<td>w/Internal steel and water</td>
<td>14,000 kg</td>
<td>30,885 lb</td>
</tr>
<tr>
<td>w/Modular steel and water</td>
<td>15,000 kg</td>
<td>33,069 lb</td>
</tr>
<tr>
<td>w/Modular steel</td>
<td>15,600 kg</td>
<td>34,392 lb</td>
</tr>
<tr>
<td>w/Internal steel and water</td>
<td>16,000 kg</td>
<td>35,275 lb</td>
</tr>
<tr>
<td>w/Internal steel and water</td>
<td>18,000 kg</td>
<td>39,683 lb</td>
</tr>
<tr>
<td>w/Modular steel and water</td>
<td>18,600 kg</td>
<td>41,006 lb</td>
</tr>
<tr>
<td>w/Modular steel, internal steel, and water</td>
<td>20,000 kg</td>
<td>44,092 lb</td>
</tr>
<tr>
<td>w/Modular steel, internal steel, and water</td>
<td>24,000 kg</td>
<td>52,911 lb</td>
</tr>
<tr>
<td>w/Modular steel, internal steel, and water</td>
<td>27,000 kg</td>
<td>59,525 lb</td>
</tr>
</tbody>
</table>

*Weights shown include ROPS (unless otherwise stated), 80 kg (176 lb) operator, full capacity fuel tank, full capacity water tank, 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.

Ground Contact Pressures

<table>
<thead>
<tr>
<th>Tire Pressure</th>
<th>300 kpa 44 psi</th>
<th>400 kpa 58 psi</th>
<th>500 kpa 73 psi</th>
<th>600 kpa 87 psi</th>
<th>700 kpa 102 psi</th>
<th>800 kpa 116 psi</th>
<th>850 kpa 123 psi</th>
<th>900 kpa 131 psi</th>
</tr>
</thead>
<tbody>
<tr>
<td>1500 kg</td>
<td>242 kPa</td>
<td>309 kPa</td>
<td>366 kPa</td>
<td>412 kPa</td>
<td>460 kPa</td>
<td>508 kPa</td>
<td>556 kPa</td>
<td>604 kPa</td>
</tr>
<tr>
<td>3,307 lb</td>
<td>35 psi</td>
<td>45 psi</td>
<td>55 psi</td>
<td>65 psi</td>
<td>75 psi</td>
<td>85 psi</td>
<td>95 psi</td>
<td>105 psi</td>
</tr>
<tr>
<td>2000 kg</td>
<td>260 kPa</td>
<td>322 kPa</td>
<td>383 kPa</td>
<td>445 kPa</td>
<td>507 kPa</td>
<td>569 kPa</td>
<td>631 kPa</td>
<td>693 kPa</td>
</tr>
<tr>
<td>4,410 lb</td>
<td>308 kPa</td>
<td>369 kPa</td>
<td>430 kPa</td>
<td>492 kPa</td>
<td>554 kPa</td>
<td>616 kPa</td>
<td>678 kPa</td>
<td>740 kPa</td>
</tr>
<tr>
<td>2500 kg</td>
<td>366 kPa</td>
<td>433 kPa</td>
<td>496 kPa</td>
<td>559 kPa</td>
<td>622 kPa</td>
<td>685 kPa</td>
<td>748 kPa</td>
<td>811 kPa</td>
</tr>
<tr>
<td>5,512 lb</td>
<td>418 kPa</td>
<td>489 kPa</td>
<td>550 kPa</td>
<td>612 kPa</td>
<td>674 kPa</td>
<td>736 kPa</td>
<td>800 kPa</td>
<td>864 kPa</td>
</tr>
<tr>
<td>Average Wheel Load</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3000 kg</td>
<td>397 kPa</td>
<td>468 kPa</td>
<td>539 kPa</td>
<td>600 kPa</td>
<td>671 kPa</td>
<td>743 kPa</td>
<td>815 kPa</td>
<td>887 kPa</td>
</tr>
<tr>
<td>6,614 lb</td>
<td>58 psi</td>
<td>65 psi</td>
<td>72 psi</td>
<td>79 psi</td>
<td>86 psi</td>
<td>93 psi</td>
<td>100 psi</td>
<td>107 psi</td>
</tr>
<tr>
<td>3375 kg</td>
<td>518 kPa</td>
<td>589 kPa</td>
<td>660 kPa</td>
<td>731 kPa</td>
<td>802 kPa</td>
<td>873 kPa</td>
<td>944 kPa</td>
<td>1015 kPa</td>
</tr>
<tr>
<td>7,441 lb</td>
<td>75 psi</td>
<td>82 psi</td>
<td>89 psi</td>
<td>96 psi</td>
<td>103 psi</td>
<td>110 psi</td>
<td>117 psi</td>
<td>124 psi</td>
</tr>
</tbody>
</table>

**STANDARD EQUIPMENT**

- 24-Volt Electrical System
- 3 m³ (793 gal) Water-Tight Ballast Chamber
- 13/80-R20 Tires
- 100-Amp Alternator
- ECO-Mode
- Front Wheel Suspension
- Halogen Working Lights
- LCD Operating Display
- Product Link Ready
- Pressurized Water Spray w/ Triple Filtration
- Roading Lights
- Sliding Operator Station w/ 180° Rotation
- Three-Speed Propel System
- Vinyl Seat with 76 mm (3”) Wide Belt
- Wheel Oscillation
Having a goal like being the paving industry sales leader is no small challenge, even for the worldwide leader in the manufacture of equipment for the construction industry.

But ever since we sold our first paving equipment in 1986, we have continued to grow. Over the years, our machines have been recognized as dependable and rugged, easy to use and highly productive.

We have introduced innovations that have changed the way the world builds roads, features that our competitors now offer on their machines.

And with each new generation of machines we introduce, more and more customers around the world make the decision to switch to Cat.

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at www.cat.com.