The new line of Cat Tandem Vibratory Rollers are sized to match just about any job, from parking lots to mainline paving.

While some of the features have changed, the best-in-class vibratory systems haven’t. They are easy to match frequency and amplitude to your particular application in order to achieve target densities in the fewest number of passes.

Innovative technology features work quietly behind the scenes. With each roll, temperature can be measured and passes can be counted, more efficiently than ever before.

Operators will notice that they’re more comfortable, and that visibility is enhanced, too. Your service technicians, meanwhile, will appreciate extended maintenance intervals.

Why settle for any tandem vibratory roller when you can utilize one ideally matched to the size, specifications and requirements of your project?

With Cat Paving Products, you have more models, more comfort, more technology—and ultimately, more profitability.
SIZED RIGHT
FOR ANY NEED

Cat Tandem Drum Vibratory Rollers offer many innovative technologies to match job-site conditions and increase profitability.
A FULL RANGE
FOR ANY PAVING APPLICATION.

You can take comfort knowing that no matter how remote the project, service and parts are always available.

HOW CAT TANDEM VIBRATORY ROLLERS DELIVER
Cat Tandem Vibratory Rollers feature more choices and improved technology to help you quickly reach quality targets. The industry’s longest service intervals reduce the use of consumables and keep the machines running day after day, from dawn to dusk. Don’t forget to factor in a high resale value because of the legendary Cat durability.

EXCEPTIONAL VISIBILITY AND CONTROL
- Unobstructed sight lines with standard 180° seat positioning for excellent visibility
- Innovative handwheel steering technology eliminates front console and delivers precise control
- Finger-tip control for machine functions
- Drum edge and drum surface lighting for easy nighttime operation

SMOOTH OPERATING POWERTRAIN
- Durable drum design
- Oscillating hitch design delivers best mat finish and improves ride quality on uneven terrain
- Automatic speed control and impact spacing, easily repeat desired working speed
- Cat C4.4 engines
VERSATILE VIBRATORY SELECTION

– Dual Amplitude/Dual Frequency Vibratory System
  • Automatically optimizes amplitude and frequency with single switch
  • Simple thin/thick lift operation
– Five-Amplitude Vibratory System, heavy hitter for thick lifts and tough mix designs
– Versa Vibe™ Vibratory System, two machines in one for lighter hitting and higher speeds or heavy hitting and slower speeds (CB54B only)

CAT COMPACTION CONTROL

– Infrared temperature sensors (front and rear) keep operator informed of when optimal temperatures exist for compaction
– Temperature Mapping records temperatures for data analysis
– Pass-Count Mapping keeps operator informed of where mat coverage has taken place and the number of passes made

BEST LIFETIME VALUE

– Eco-mode reduces fuel consumption and lowers sound levels
– Industry-leading vibratory system reliability with extended service intervals
– Oil-bath lubrication for long life of eccentric weight bearings
– Long service intervals for the engine, hydraulics and vibratory system minimize lifetime operating costs

INDUSTRY-LEADING WATER SPRAY SYSTEM

– High capacity system tank provides long duration between fills
– Dual water pumps provide back-up capability and alternate with direction of travel to maximize service life
– Triple filtration prevents clogs with filters located at the fill point, water pumps, and spray nozzles
– Intermittent operation conserves water
– Integrated freeze protection kit (optional) provides protection in cold temperatures when machine is not in use
FEEL THE COMFORT, ENJOY THE PERFORMANCE

1. Versatile vibratory systems
2. Drum surface lighting
3. Cat C4.4 Engine meets emissions equivalent to U.S. EPA Tier 3 and EU Stage IIIA
4. Cool, comfortable operating environment
5. Cat Compaction Control (option)
6. Reliable water spray system
7. Drum edge lighting
The rollers feature powerful Cat® diesel engines, with ranges between 82.1 kW (110 hp imperial, 111.6 metric hp) and 96.5 kW (129 hp imperial, 131.2 metric hp).
NO SHOCK: COMFORT MATTERS

Cat rollers are built to vibrate. Your operators aren’t. That’s why comfort is built into every model. The conveniences help keep your operators fresh, which improves productivity and safety. Comfortable equipment also helps you retain key employees, avoiding additional training and hiring costs.

Caterpillar designs operating stations that provide excellent visibility, control and comfort.

OPERATOR COMFORT

IMPROVED STATION BOOSTS PERFORMANCE.
**OPERATOR’S STATION**

- Controls and LCD Display integrated with pivoting adjustable seat and move with the operator
- Vinyl seat for open-platform configurations; cloth for cab
- Heated option for vinyl seats
- Optional deluxe highback air-ride seat
- Vibration-absorbing floor mat
- 12-volt power receptacle supports communication devices
- Comfortable, wide-width seat belt
- Cup holders offer convenience
- Lockable storage compartment

**EXCEPTIONAL VISIBILITY AND COMFORT**

- Unimpeded views to drum edges
- Unobstructed sight lines with 180º seat positioning
- Lighting at the drum surface and edge for nighttime operation
- Large mirrors provide wide views to rear
- Standard light package provides excellent lighting; optional additional light package enhances overall illumination
- Low machine noise, low vibration transfer to operator
- Sliding armrest and adjustable seats conform to operator
- Cab features excellent climate control and ventilation with optional air conditioning
UNDER CONTROL
The newly designed console for Cat Tandem Vibratory Rollers is convenient, helping operators quickly find what they need, when they need it. The console’s intuitiveness gives operators the confidence they need to leverage the technology, and associated productivity, built into Cat rollers.

MULTI-FUNCTION PROPEL LEVER
- Integrated controls for:
  - Water spray on/off
  - Drum offset option
  - Vibratory control
  - Optional edge cutter raise/lower control
Cat control consoles are integrated with pivoting seats, keeping controls and the display right at your fingertips.

**LCD DISPLAY**
- Multiple functions, including machine data and diagnostics
- Integrated with seat, so it remains in same position even as the seat pivots
- Built-in lockable anti-vandalism cover
- Back-lit for easy visibility in all light conditions
- Multiple language options
- Split-screen capability
- Indicators for:
  - Ground speed
  - Vibrations per minute
  - Fuel level

**CONVENIENT CONSOLE**
- Integrated with seat providing fingertip access, turns with seat
- Soft keys with tactile feel provide feedback to the operator for intuitive operation
- Emergency Stop button easy to reach and engage
CAT COMPACTION CONTROL

GOING BEYOND OPERATOR INTUITION.

CAT COMPACTION CONTROL

The optional Cat Compaction Control helps contractors increase efficiency and productivity while recording data for quality control documentation and future planning.

TEMPERATURE SENSORS

– Dual infra-red sensors mounted on the front and rear of machine deliver real-time readings
– Keep operator informed of when to begin rolling and when to stop
– Help avoid tender-zones that often occur in the 104º-110º C (219º-230º F) temperature range
– Optimal mat temperatures for compaction
  • Upper limit is around 149º C (300º F)
  • Lower limit is around 85º C (185º F)
– Eliminates hand-held devices

PASS-COUNT MAPPING

– Achieve target density and increase roller efficiency
– Record and monitor pass pattern in order to ensure consistent coverage
– Optimize drum overlap in order to keep pace with the paver
– Simplify nighttime operation
– Eliminate second guessing
– Prevent incomplete passes such as stopping short

TEMPERATURE MAPPING

– Provides a visual readout of mat temperature in order to keep the machine in the proper temperature range
– Records and monitors temperature for future analysis of the proper temperature range
MORE AMPLITUDE CHOICES

VIBRATORY SYSTEM VERSATILITY
Cat rollers offer many vibratory choices to match your amplitude and frequency requirements, and perform particularly well in high-production applications.

KEY FEATURES
- Perform exceptionally well in vibratory or static mode, enabling a single machine to perform breakdown, intermediate and finishing work
- Are well suited to all types of mix designs and applications
- Provide high amplitudes for breakdown and intermediate work, while their high static linear loads deliver excellent results for finishing work
- Typical applications include highways, city streets, county roads, lane additions, industrial sites, overlays, airport runways, and other high-production paving jobs

Easily fine-tune amplitude settings for the 5-amplitude and Versa Vibe™ systems
PACK A PUNCH

ACHIEVE QUALITY COMPACTION FASTER.

DONE RIGHT, DONE NOW
Cat Tandem Vibratory Rollers quickly reach target densities due to their versatile frequency and amplitude selections. These powerful rollers also provide finesse when necessary due to their flexible front or rear drum only vibratory capability.

Easily adjust amplitude and frequency to match the jobsite application.

VIBRATORY SYSTEM
- Options include dual amplitude/three frequency, Versa Vibe, and five amplitude settings
- Multiple options that help fine-tune performance on thick, challenging lifts
- Automatic Speed Control feature makes it easier to maintain consistency and impact spacing requirements
- Auto Vibe function helps prevent over-compaction and contributes to uniformity

EXCLUSIVE POD-STYLE VIBRATORY SYSTEM
- Drum design exhibits industry-leading vibratory system reliability with 3-year/3000-hour service interval
- Oil-bath lubrication for long life of eccentric weight bearings
DUAL AMPLITUDE / DUAL FREQUENCY VIBRATORY SYSTEM
- Dual amplitude and dual frequency can be tailored to thin/thick lifts
- Single switch control
- Automatically matches amplitude and frequency
- Simple thin/thick lift operation

FIVE AMPLITUDE VIBRATORY SYSTEM
- Heavy hitter for thick lifts and tough mix designs
- Single frequency, five amplitudes
- Easily fine-tune amplitude with drum mounted handwheel

VERSA VIBE VIBRATORY SYSTEM
- Two machines in one for lighter hitting and higher speeds or heavy hitting and slower speeds (CB54B only)
- High frequency or high amplitude settings
- Two settings for lighter hitting and higher working speeds on thin lifts
- Two settings for heavier hitting, and slower speeds, on thick lifts
- Four amplitudes, two frequencies
- Simple frequency adjustment
- Breakdown, intermediate, and finish capabilities
WATER SPRAY SYSTEM

STEADY FLOW, FEWER CLOGS.

KEEP WORK FLOWING

The water tank on Cat tandem vibratory rollers has the capacity to keep your crew moving for hours. The system also is designed to prevent clogging and keep the entire roller drum wet—and the asphalt where it belongs.

CAPACITY, CONVENIENCE

– High capacity system with single fill point provides long duration between refills
– Triple filtration prevents clogs with filters located at the fill point, water pumps, and spray nozzles
– Highly accessible filters can be quickly removed for cleaning without the use of special tools, limiting machine downtime
– Dual water pumps provide the necessary flow to the spray nozzles
– Pump usage alternates with the direction of travel, providing controlled cycling that extends pump life
– Upward spray nozzle orientation allows water to drain back into the supply line, limiting particle accumulation in the nozzle filter
– Constant or adjustable intermittent operation
– Integrated freeze protection kit (optional) provides protection in cold temperatures when machine is not in use
Push button control and visual display provides easy operation.

1. Water Spray On/Off
2. Water Spray Mode, Pump 1 Activation, Pump 2 Activation, or Automatic Alternating
3. Timer Control (On) Duration Increase
4. Timer Control (On) Duration Decrease
POWERTRAIN
PROVEN POWER, TRACTION, DEPENDABILITY.

STAYING POWER
The B-Series tandem rollers are powered by Cat engines. The engines include a variety of features that help reduce fuel burn, yet still deliver the power required on challenging jobsites. Tough components help extend compactor life.

The oscillating hitch design improves ride quality on uneven terrain.
POWER, SMOOTH RIDE

- Outstanding performance when rolling resistance is amplified such as inclines and thick lifts
- Centered articulation hitch allows the drums to track in the same path while turning

ENGINE

- Features electronic control module (ECM), providing optimal performance through precisely synchronized timing and fuel delivery
- ECM enables advanced troubleshooting and diagnostic capabilities using Electronic Technician (Cat ET)
- Cat Dealers are the single-source providers of all machine and engine warranty service (a Cat exclusive)
- Easy access to entire engine compartment and cooling module for easy, fast servicing
- Sustainable features include meeting emissions equivalent to U.S. EPA Tier 3 and EU Stage IIIA standards, and a thick block/robust components for extended life and lower noise levels

HIGH CAPACITY COOLING SYSTEM

- The large capacity cooling system keeps the operating temperatures low, even in extreme conditions
- The high capacity fans direct warm air away from the operator for a more comfortable operating environment

CAT ENGINES OPTIMIZED FOR POWER, EFFICIENCY

CB44B
82.1 kW (110 hp)
CB54B
96.5 kW (129 hp)

Gross power: ISO 14396
Rated Speed: 2,200 rpm

AIR FLOW PATTERN
CB44B
ARTICULATING ROLLER.

APPLICATIONS
– Drum width is 1500 mm (59”)
– Highways, urban streets, parking lots, rural roads
– Covers widths up to 3.65 m (12’) in three overlapping passes
– Recommended for lift thicknesses up to 76 mm (3’)

VIBRATORY DRUM
POD DESIGN
STANDARD AND
OPTIONAL EQUIPMENT

Standard Equipment:
- 2-Amplitude/2-Frequency Vibratory System
- 12-Volt Electrical System
- 120 Amp Alternator
- 742 L (196 gal) Water Tank Capacity
- Automatic Speed Control
- Automatic Vibratory Control
- ECO-mode
- Locking Engine Compartment
- ROPS/FOPS Platform
- Rotating and Sliding Station
- Triple Filtered Water Spray System
- Two-Speed Hydrostatic Transmission
- Sealed Pod Vibratory System
- Suspension Seat
- Working Lights

Optional Equipment:
- 2 Amplitude, 3 Frequency Vibratory System
- 5-Amplitude Vibratory System
- Air Conditioning
- Air Suspension Seat w/Heat
- Bio-Degradable Oil
- Cab
- Cat Compaction Control
- Edge Cutter
- Freeze Protection Kit
- High Ambient Cooling System
- Halogen Lights w/Drum Edge Lights
- High Intensity Discharge (HID) Lights w/Drum Edge Lighting
- Mirrors
- Product Link™
- Recording Module (cab only)
- Roading Lights
- Sun Canopy
- Temperature Indicator (asphalt)
- Warning Beacon
- Water Distribution Mats (cocoa)
- Water Distribution Mats (rubber)

Weights

<table>
<thead>
<tr>
<th>Operating Weight - w/SUN CANOPY</th>
<th>Standard machine</th>
<th>8144 kg</th>
<th>17,955 lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum machine</td>
<td>8875 kg</td>
<td>19,565 lb</td>
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</tr>
<tr>
<td>Static linear load</td>
<td>27.3 kg/cm</td>
<td>153 lb/in</td>
<td></td>
</tr>
<tr>
<td>Operating Weight – w/ROPS/FOPS/OPEN</td>
<td>Standard machine</td>
<td>8300 kg</td>
<td>18,300 lb</td>
</tr>
<tr>
<td>Maximum machine</td>
<td>9035 kg</td>
<td>19,920 lb</td>
<td></td>
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<tr>
<td>Static linear load</td>
<td>27.8 kg/cm</td>
<td>156 lb/in</td>
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<tr>
<td>Operating Weight – w/ROPS CAB</td>
<td>Standard machine</td>
<td>8551 kg</td>
<td>18,850 lb</td>
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<tr>
<td>Maximum machine</td>
<td>9312 kg</td>
<td>20,530 lb</td>
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<tr>
<td>Static linear load</td>
<td>28.7 kg/cm</td>
<td>161 lb/in</td>
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</tr>
<tr>
<td>Operating Weight – w/NON ROPS CAB</td>
<td>Standard machine</td>
<td>8450 kg</td>
<td>18,630 lb</td>
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<tr>
<td>Maximum machine</td>
<td>9157 kg</td>
<td>20,190 lb</td>
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<tr>
<td>Static linear load</td>
<td>28.2 kg/cm</td>
<td>158 lb/in</td>
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</table>

Service Refill Capacities

<table>
<thead>
<tr>
<th>Fuel Tank - L (gal)</th>
<th>208 L</th>
<th>55 gal</th>
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</thead>
<tbody>
<tr>
<td>Water Tank - L (gal)</td>
<td>742 L</td>
<td>196 gal</td>
</tr>
</tbody>
</table>

Engine - Powertrain

<table>
<thead>
<tr>
<th>Engine Model</th>
<th>C4.4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Cylinders</td>
<td>4</td>
</tr>
<tr>
<td>Rated Speed</td>
<td>2200 rpm</td>
</tr>
</tbody>
</table>

Gross Power:

| Tier 3, Stage IIIA | 82.1 kW | 110 hp (m), 111.6 hp (I) |

Speed Ranges:

| Low        | 7 km/hr | 4 mph |
| High       | 12 km/hr | 7.5 mph |

Vibratory Systems

<table>
<thead>
<tr>
<th>Dual Amplitude, Dual Frequency</th>
<th>Frequency – Hz (vpm)</th>
<th>53.3/66.7</th>
<th>(3200/4000)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Amplitude – mm (in)</td>
<td>0.65 - 0.31</td>
<td>(0.026 - 0.012)</td>
</tr>
<tr>
<td>Dual Amplitude, Dual Frequency</td>
<td>Frequency – Hz (vpm)</td>
<td>45/53.3</td>
<td>(2700/3200)</td>
</tr>
<tr>
<td></td>
<td>Amplitude – mm (in)</td>
<td>0.65 - 0.31</td>
<td>(0.026 - 0.012)</td>
</tr>
<tr>
<td>Dual Amplitude, Three Frequency</td>
<td>Frequency – Hz (vpm)</td>
<td>45/50/57</td>
<td>(2700/3200/3420)</td>
</tr>
<tr>
<td></td>
<td>Amplitude – mm (in)</td>
<td>0.65 - 0.31</td>
<td>(0.026 - 0.012)</td>
</tr>
<tr>
<td>Five Amplitude</td>
<td>Frequency – Hz (vpm)</td>
<td>53.3</td>
<td>(3200)</td>
</tr>
<tr>
<td></td>
<td>Amplitude – mm (in)</td>
<td>high</td>
<td>0.64</td>
</tr>
<tr>
<td></td>
<td></td>
<td>medium high</td>
<td>0.56</td>
</tr>
<tr>
<td></td>
<td></td>
<td>medium</td>
<td>0.45</td>
</tr>
<tr>
<td></td>
<td></td>
<td>medium low</td>
<td>0.35</td>
</tr>
<tr>
<td></td>
<td></td>
<td>low</td>
<td>0.25</td>
</tr>
</tbody>
</table>
CB54B
ARTICULATING ROLLER.

APPLICATIONS
- Drum width is 1700 mm (67")
- Interstates, highways, urban streets, large parking lots, rural roads
- Covers widths up to 4.8 m (16') in three overlapping passes
- Recommended for lift thicknesses up to and greater than 101 mm (4")

VIBRATORY DRUM POD DESIGN
STANDARD AND
OPTIONAL EQUIPMENT

Standard Equipment:
• 2-Amplitude/2-Frequency Vibratory System
• 12-Volt Electrical System
• 120 Amp Alternator
• 837 L (221 gal) Water Tank Capacity
• Automatic Speed Control
• Automatic Vibratory Control
• ECO-mode
• Locking Engine Compartment
• ROPS/FOPS Platform
• Triple Filtered Water Spray System
• Two-Speed Hydrostatic Transmission
• Sealed Pod Vibratory System
• Suspension Seat
• Working Lights

Optional Equipment:
• 5-Amplitude Vibratory System
• Air Conditioning (cab only)
• Air Suspension Seat w/Heat
• Bio-Degradeable Oil
• Cab
• Cat Compaction Control
• Edge Cutter
• Freeze Protection Kit
• High Ambient Cooling System
• Halogen Lights w/Drum Edge Lighting
• Mirrors
• Product Link
• Recording Module (cab only)
• Roading Lights
• Sun Canopy
• Temperature Indicator (asphalt)
• Versa Vibe Vibratory System
• Warning Beacon
• Water Distribution Mats (cocoa)
• Water Distribution Mats (rubber)

Weights

Operating Weight - w/SUN CANOPY
Standard machine 9274 kg 20,445 lb
Maximum machine 10,015 kg 22,080 lb
Static linear load 28.0 kg/cm 157 lb/in

Operating Weight — w/ROPS/FOPS/OPEN
Standard machine 9550 kg 21,055 lb
Maximum machine 10,175 kg 22,430 lb
Static linear load 28.5 kg/cm 160 lb/in

Operating Weight — w/NON ROPS CAB
Standard machine 9681 kg 21,340 lb
Maximum machine 10,453 kg 23,045 lb
Static linear load 27.7 kg/cm 155 lb/in

Operating Weight — w/ROPS CAB
Standard machine 9725 kg 21,440 lb
Maximum machine 10,259 kg 22,620 lb
Static linear load 29.2 kg/cm 164 lb/in

Service Refill Capacities
Fuel Tank 208 L 55 gal
Fuel Usage (50% duty) - hours 12 hr
Water Tank - L (gal) 837 L 221 gal

Engine - Powertrain
Engine Model C4.4
Number of Cylinders 4
Rated Speed 2200 rpm

Gross Power:
Tier 3, Stage IIIA - kW (hp) 96.5 kW 131 hp (m), 129 hp (l)

Speed Ranges:
Low - km/hr (mph) 7 km/hr 4 mph
High - km/hr (mph) 11 km/hr 7 mph

Vibratory Systems

Dual Amplitude, Dual Frequency
 Frequency – Hz (vpm) 45/63.3 2700/3800
 Amplitude – mm (in) 0.67 - 0.35 0.026 - 0.014

Dual Amplitude, Dual Frequency
 Frequency – Hz (vpm) 45/53.3 2700/3200
 Amplitude – mm (in) 0.67 - 0.35 0.026 - 0.014

Dual Amplitude, Dual Frequency
 Frequency – Hz (vpm) 45/63.3 2700/3800
 Amplitude – mm (in) 0.82 - 0.32 0.032 - 0.013

Dual Amplitude, Dual Frequency
 Frequency – Hz (vpm) 45/53.3 2700/3200
 Amplitude – mm (in) 0.82 - 0.32 0.032 - 0.013

Versa Vibe
 Frequency – Hz (vpm) 45 2700
 Amplitude – mm (in) high 0.86 0.034
 low 0.72 0.028

Frequency – Hz (vpm) 63.3 3800
 Amplitude – mm (in) high 0.39 0.015
 low 0.26 0.010

Five amplitude
 Frequency – Hz (vpm) 45 2700
 Amplitude – mm (in) high 1.06 0.042
 medium high 0.91 0.036
 medium 0.73 0.029
 medium low 0.54 0.021
 low 0.34 0.013
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.

PAVING ALL DAY. EVERY DAY.