



Cat® CP54B

PADFOOT DRUM VIBRATORY SOIL COMPACTOR

FEATURES:

The Cat® CP54B features a padfoot drum and is ideally suited for cohesive and semi-cohesive soil applications:

- **Comfortable and ergonomic operator station** features pivoting seat with integrated multifunction LCD display and control console, outstanding visibility to the front and rear of machine, low sound levels and vibration for greater operator comfort and productivity.
- **World-class propel system** built around the exclusive Cat dual pump propel system, two pumps provide separate dedicated flow to drum drive motor and rear axle motor for exceptional gradeability and traction in forward and reverse. New electronic propel control enables more precise machine control.
- **Virtually maintenance free** due to maintenance-free hitch bearings and extended maintenance intervals for vibratory system and hydraulic system, providing more uptime and lower maintenance costs.
- **Cat® Compaction Control - Machine Drive Power (MDP) Option** helps the operator determine when compaction has been completed to spec for greater productivity and uniform compaction quality.
- **Enhanced compaction performance** due to more weight at the drum and greater amplitude. Automated propel and vibratory system functions make it easy to ensure consistent, high quality.
- **Involute Oval Padfoot Design** provides deeper compaction than square faced pad designs. Square pad design also available.

Specifications

Engine - Power Train

Engine Model	Cat® C4.4 with ACERT™	
Global Emissions	US EPA Tier 4i/EU Stage IIIB	
Gross Power ISO 14396	98 kW	131 hp
Displacement	4.4 L	268.5 in³
Stroke	127 mm	5 in
Bore	105 mm	4.1 in
Max. Travel Speed (Forward or Reverse)	11 km/h	6.8 mph

Weights

Operating Weight w/ ROPS/FOPS canopy	10 935 kg	24,096 lb
Operating Weight w/ ROPS/FOPS cab	11 135 kg	24,539 lb
Weight at Drum w/ ROPS/FOPS canopy	6300 kg	13,887 lb
Weight at Drum w/ ROPS/FOPS cab	6395 kg	14,092 lb

Vibratory System Specifications

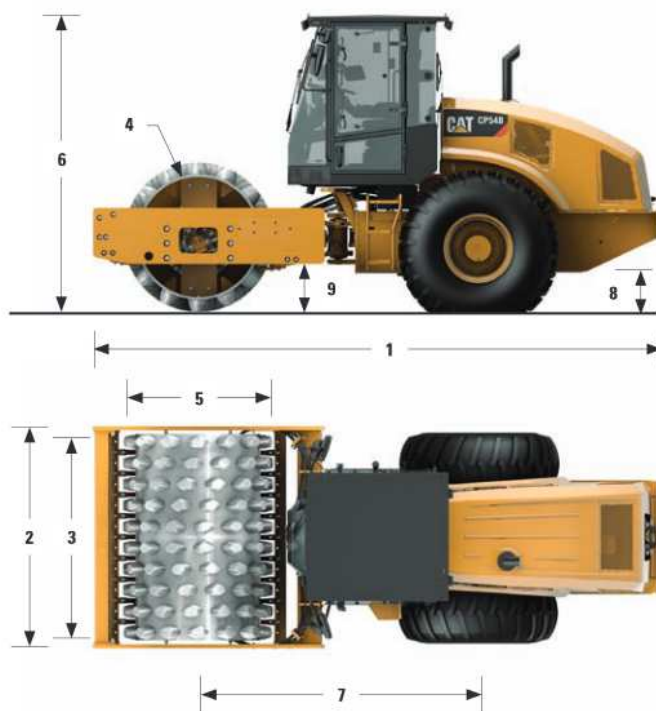
Frequency		
Standard	30.5 Hz	1830 vpm
During Eco-mode Operation	27.7 Hz	1664 vpm
Optional Variable Frequency	23.3-30.5 Hz	1400-1830 vpm
Nominal Amplitude @30.5 Hz (1830 vpm)		
High	1.9 mm	0.075 in
Low	0.88 mm	0.035 in
Centrifugal Force @ 30.5 Hz (1830 vpm)		
Maximum	266 kN	59,800 lb
Minimum	133 kN	29,900 lb

Service Refill Capacities

Fuel Tank, total capacity	242 L	64 gal
Cooling System	27.4 L	7.2 gal
Engine Oil w/ Filter	8.8 L	2.3 gal
Eccentric Weight Housings	26 L	6.9 gal
Axle and Final Drives	18 L	4.8 gal
Hydraulic Tank (service refill)	50 L	13.2 gal



CP54B Vibratory Soil Compactor



Dimensions

1 Overall Length	5.85 m	19.21 ft
2 Overall Width	2.30 m	7.53 ft
3 Drum Width	2134 mm	84 in
4 Drum Shell Thickness	25 mm	1 in
5 Drum Diameter (over pads)	1549 mm	60.9 in
6 Overall Height		
-Cab	3.11 m	10.2 ft
-ROPS/FOPS	3.08 m	10.1 ft
7 Wheelbase	2.9 m	9.5 ft
8 Ground Clearance	450 mm	17.7 in
9 Curb Clearance	551 mm	21.7 in
Inside Turning Radius	3.68 m	12.07 ft
Hitch Articulation Angle	34°	
Hitch Oscillation Angle	15°	

Padfoot Specifications

Number of Pads	140	
Pad Height	128 mm	5 in
Pad Face Area	89.4 cm ²	13.9 in ²
Number of Chevrons	14	

STANDARD EQUIPMENT Varies by market- contact your Dealer for specifics.

ELECTRICAL

- 24 volt Electrical System
- 100 ampere Alternator
- 750 Cold-cranking Amps Battery Capacity

OPERATOR ENVIRONMENT

- ROPS/FOPS
- Vinyl Adjustable Pivoting Seat with Integrated Console and LCD Display
- Multifunction LCD Display with gauges and/or audible warning alarm for: Hydraulic oil temperature, Engine oil pressure, Engine coolant temperature, Alternator charge, Fuel level, Service hour meter, Engine RPM, Ground speed, Vibe frequency, Fuel rate, Air filter constriction, Engine load and Optional Cat Compaction Control
- Platform Handrails/Guardrails
- Adjustable Tilting Steering Column with Integrated Cup Holders
- Seat Belt
- Lockable Vandalism Guard on LCD Display
- 12-volt Power Outlet
- Floor Mat
- Interior Rear View Mirror
- Horn, Backup Alarm

POWER TRAIN

- Cat® C4.4 Diesel Engine
- Air Cleaner, Dual Element
- Three-speed Throttle Switch, Eco-mode and Automatic Speed Control
- Dual Propel Pumps; One for Drum Drive, One for Rear Axle
- Fuel Filter, Water Separator, Electronic Priming Pump, Water Indicator
- Tilting Radiator/Hydraulic Oil Cooler
- Dual Braking System
- Two-speed Hydrostatic Transmission

VIBRATORY SYSTEM

- Padfoot Drum
- Dual Amplitude, Single Frequency
- Dual Pod-Style Eccentric Weight Housings
- Auto-vibe Function
- Front Adjustable Steel Scrapers

OTHER

- Hydraulic Oil Level Sight Gauge
- Radiator Coolant Level Sight Gauge
- Cat® ToughGuard™ Hose
- S-O-SSM Sampling Valves, Engine Oil and Hydraulic Oil

OPTIONAL EQUIPMENT

- ROPS/FOPS Cab with Climate Control
- Variable Vibration Frequency
- Beacon, Rotating
- Polyurethane Drum Scrapers
- Steel Rear-side Drum Scraper
- Bio-oil Factory Fill
- Sun Visor
- Deluxe High-back Air-ride Pivoting Seat (with Cab only)
- Cat Compaction Control, Machine Drive Power
- SBAS GNSS Mapping for Cat Compaction Control (RTK available)
- Upgraded Halogen Light Package
- Cab Internal Rear View Mirrors
- Cab Internal Roll-down Sun Screen
- Product Link
- Additional Rear View Mirrors

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

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Weights and dimensions listed are approximate. 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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