

# Cat<sup>®</sup> 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.
- Involuted Oval Padfoot Design provides deeper compaction than square faced pad designs. Square pad design also available.

# **Specifications**

# **Engine - Power Train**

Weight at Drum w/ ROPS/FOPS cab

Engine Model	Cat® C4.4 ACERT™	
Emission Standards	US EPA Tier 4 Final	
	EU Stage IV	
Gross Power ISO 14396	98 kW	131 hp
Displacement	4.4 L	268.5 in <sup>3</sup>
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

6395 kg

14,092 lb

# **Vibratory System Specifications**

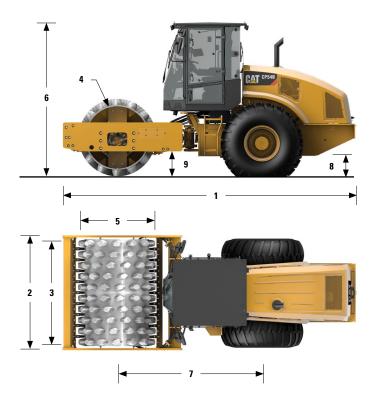
Frequency		
Standard	30.5 Hz	1830 vpm
During Eco-mode Operation	27.7 Hz	1664 vpm
Optional Variable Frequency	23.3-30.5 Hz	1400-1830 vpm
Nominal Amplitude @30.5 Hz (1830 vpm)		
High	1.9 mm	0.075 in
Low	0.88 mm	0.035 in
Centrifugal Force @ 30.5 Hz (1830 vpm)		
Maximum	266 kN	59,800 lb
Minimum	133 kN	29,900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

Fuel Tank, total capacity	242 L	64 gal
Diesel Exhast Fluid refill capacity	19 L	5 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**

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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 <sup>2</sup>	13.9 in <sup>2</sup>
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 with Platform Handrails/Guardrails
- 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
- 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
- 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, Front Adjustable Steel Scrapers
- Dual Amplitude, Single Frequency
- Dual Pod-Style Eccentric Weight Housings
- Auto-vibe Function

#### OTHER

- Hydraulic Oil Level Sight Gauge
- Radiator Coolant Level Sight Gauge
- Cat® ToughGuard™ Hose
- S·O·S<sup>SM</sup> 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, Roll-down Sun Screen
- Product Link™

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.8 kg of refrigerant which has a  ${\rm CO_2}$  equivalent 1.144 metric tonne.

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.

