



Cat[®] CP56B

Padfoot Drum Vibratory Soil Compactor

The Cat[®] CP56B 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

Rear Vision Camera

- The rear vision camera enhances visibility for more complete operator control and safety

Exceptional 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
- Electronic propel control provides more precise machine control

Virtually Maintenance Free

- Maintenance-free hitch bearings
- Extended maintenance intervals for vibratory system and hydraulic system, providing more uptime and lower maintenance costs

Enhanced Compaction Performance

- More weight at the drum and greater amplitude
- Automated speed control and vibratory system functions make it easy to ensure consistent, high quality compaction

Technologies that Enhance Quality and Productivity

- Exclusive semi-autonomous Command for Compaction technology automates compaction to offer complete process control to specification for greater productivity and uniform compaction quality
- Exclusive Machine Drive Power (MDP) measurement technology available



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Standard and Optional Equipment

Standard and optional equipment may vary. Consult your Cat dealer for details.

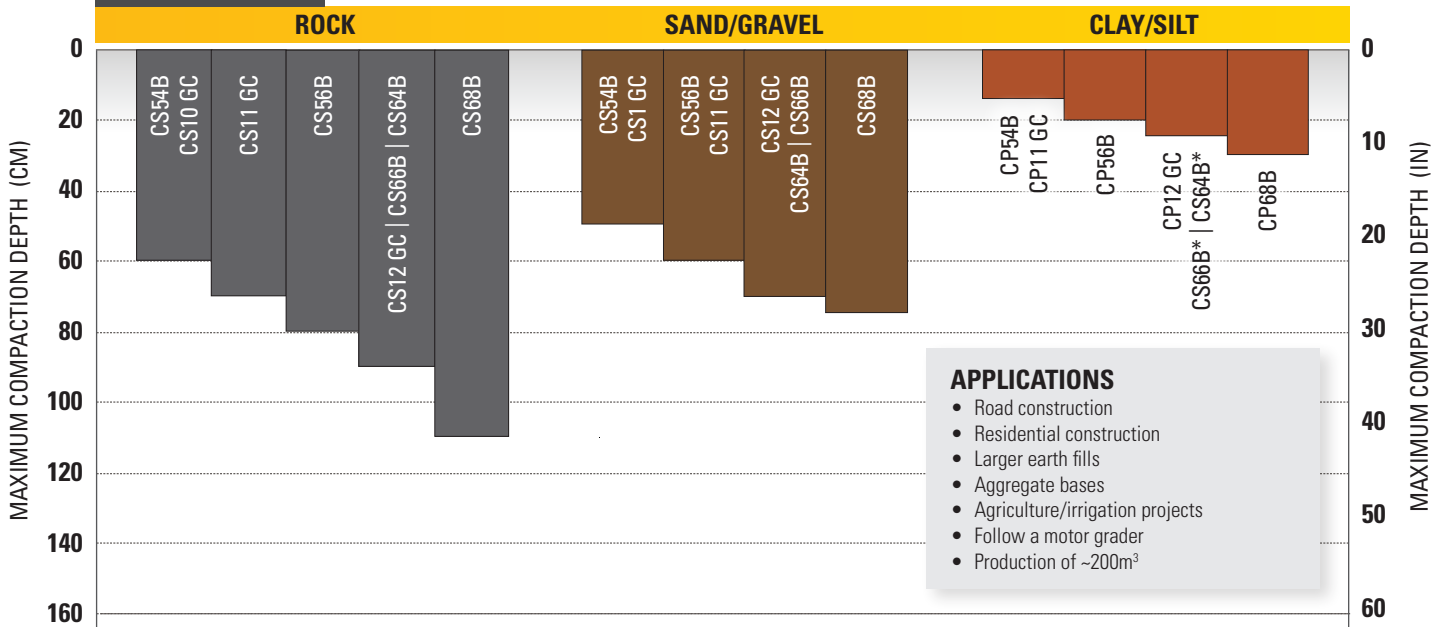
| | Standard | Optional | | Standard | Optional |
|---|----------|----------|--|----------|----------|
| OPERATOR ENVIRONMENT | | | POWER TRAIN | | |
| ROPS/FOPS Canopy with Handrails/ Guardrails, Floor Mat | ✓ | | Cat® C4.4 Diesel Engine | ✓ | |
| Vinyl Adjustable Pivoting Seat with Integrated Console and LCD Display | ✓ | | Air Cleaner, Dual Element | ✓ | |
| Adjustable Tilting Steering Column with Integrated Cup Holders | ✓ | | Eco-mode | ✓ | |
| Rear Vision Camera with Color Touchscreen Display | ✓ | | Dual Propel Pumps; One for Drum Drive, One for Rear Axle | ✓ | |
| Seat Belt | ✓ | | Fuel Filter, Water Separator, Priming Pump, Water Indicator | ✓ | |
| 12-volt Power Outlet | ✓ | | Tilting Radiator/Hydraulic Oil Cooler | ✓ | |
| Horn, Backup Alarm | ✓ | | Dual Braking System | ✓ | |
| ROPS/FOPS Cab with Climate Control | | ✓ | Two-speed Hydrostatic Transmission | ✓ | |
| Internal Rear View Mirror | | ✓ | Transmission Guard | | ✓ |
| External Rear View Mirrors | | ✓ | TECHNOLOGY SOLUTIONS | | |
| Sun Visor | | ✓ | Measure - Machine Drive Power | | ✓ |
| Cab Internal Roll-down Sun Screen | | ✓ | Map - SBAS GNSS Mapping | | ✓ |
| VIBRATORY SYSTEM | | | Connect - Cloud and Machine Connectivity | | ✓ |
| Padfoot Drum | ✓ | | Command for Compaction | | ✓ |
| Dual Amplitude, Single Frequency | ✓ | | ELECTRICAL | | |
| Dual Pod-Style Eccentric Weight Housings | ✓ | | 24 volt Electrical System | ✓ | |
| Auto-vibe Function | ✓ | | 100 ampere Alternator | ✓ | |
| Dual Adjustable Steel Scrapers | ✓ | | 750 Cold-cranking Amps Battery Capacity | ✓ | |
| Variable Frequency | | ✓ | OTHER | | |
| | | | Product Link™ | ✓ | |
| | | | Sight Gauges for Hydraulic Oil Level and Radiator Coolant Level | ✓ | |
| | | | S•O•S SM Sampling Valves: Engine Oil, Hydraulic Oil, and Coolant | ✓ | |
| | | | Upgraded Halogen Light Package | | ✓ |
| | | | Rotating Amber Beacon | | ✓ |
| | | | Fuel Fill Access Door | | ✓ |

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Vibratory Soil Compactor Selection Guide

10 - 15 T

Assumes density specification is 95% of Standard Proctor and can vary substantially due to different soil conditions.



APPLICATIONS

- Road construction
- Residential construction
- Larger earth fills
- Aggregate bases
- Agriculture/irrigation projects
- Follow a motor grader
- Production of ~200m³

Rock

Smooth drum, high amplitude moving to low amplitude when approaching compaction, 4-8 passes

Size: Less than 50 mm (2 in) diameter

Sand/Gravel

Smooth drum, high amplitude moving to low amplitude when approaching compaction, 4-6 passes

Clay/Silt

Padfoot and smooth drum application (for smoothing), 4-10 passes. Compaction in cohesive soils strongly depends on moisture content.

* Smooth drum model equipped with padfoot shell kit

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Technical Specifications

Engine - Powertrain

| | | |
|---|--------------------------------------|-----------------------|
| Engine Model | Cat C4.4 | |
| Emissions | U.S. EPA Tier 4 Final EU Stage IV | |
| Engine Power ISO 14396:2002 | 117.0 kW | 156.9 hp |
| Gross Power SAE J1995:2014 | 118.6 kW | 159.0 hp |
| Net Power ISO 9249:2007* | 98.1 kW | 131.6 hp |
| Net Power SAE J1349:2011* | 96.9 kW | 129.9 hp |
| Displacement | 4.4 L | 268.5 in ³ |
| Stroke | 127 mm | 5 in |
| Bore | 105 mm | 4.1 in |
| Max. Travel Speed (Forward or Reverse) | 11.4 km/h | 7 mph |
| Theoretical Gradeability, with or without vibration** | >65% | |

Weights

| | | |
|--------------------------------------|-----------|-----------|
| Operating Weight w/ ROPS/FOPS canopy | 11 465 kg | 25,264 lb |
| w/ Leveling Blade | 12 085 kg | 26,637 lb |
| Operating Weight w/ ROPS/FOPS cab | 11 665 kg | 25,707 lb |
| w/ Leveling Blade | 12 285 kg | 27,080 lb |
| Weight at Drum w/ ROPS/FOPS canopy | 6365 kg | 14,026 lb |
| w/ Leveling Blade | 7255 kg | 15,987 lb |
| Weight at Drum w/ ROPS/FOPS cab | 6455 kg | 14,231 lb |
| w/ Leveling Blade | 7345 kg | 16,192 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 | 2.1 mm | 0.083 in |
| Low | 0.98 mm | 0.039 in |
| Centrifugal Force @ 30.5 Hz (1830 vpm) | | |
| Maximum | 301 kN | 67,600 lb |
| Minimum | 141 kN | 31,670 lb |

Service Refill Capacities

| | | |
|--------------------------------------|--------|----------|
| Fuel Tank, total capacity | 242 L | 64 gal |
| Diesel Exhaust Fluid refill capacity | 19 L | 5 gal |
| Cooling System | 27.8 L | 7.3 gal |
| Engine Oil w/ Filter | 11.6 L | 3.1 gal |
| Eccentric Weight Housings (Combined) | 26 L | 6.9 gal |
| Axle and Final Drives | 18 L | 4.8 gal |
| Hydraulic Tank (service refill) | 50 L | 13.2 gal |

* Net power advertised is the power available at the engine flywheel when equipped with a fan at maximum speed, air cleaner, and alternator.

** Actual gradeability may vary based on site conditions and machine configuration. Refer to the Operation and Maintenance Manual for more information.

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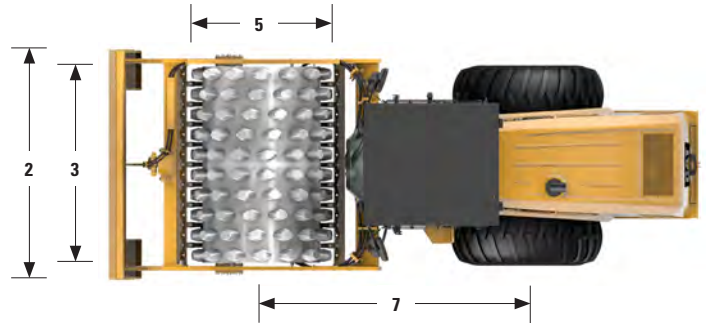
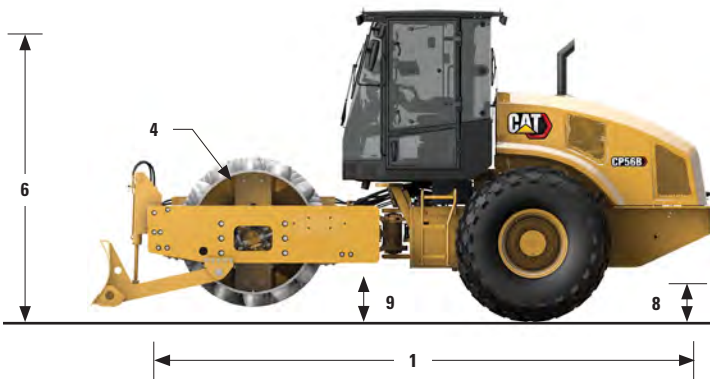
Technical Specifications

Dimensions

| | | | |
|---|--------------------------------------|---------|---------|
| 1 | Overall Length | 5.9 m | 19.2 ft |
| 2 | Overall Width | 2.3 m | 7.5 ft |
| 3 | Drum Width | 2134 mm | 84 in |
| 4 | Drum Shell Thickness | 25 mm | 1 in |
| 5 | Drum Diameter (oval pads) | 1549 mm | 60.9 ft |
| | Drum Diameter (optional square pads) | 1496 mm | 58.7 in |
| 6 | Maximum Overall Height | 3.1 m | 10.2 ft |
| 7 | Wheelbase | 2.9 m | 9.5 ft |
| 8 | Ground Clearance | 442 mm | 17.4 in |
| 9 | Curb Clearance | 494 mm | 19.3 in |
| | Inside Turning Radius | 3.7 m | 12.1 ft |
| | Hitch Articulation Angle | 34° | |
| | Hitch Oscillation Angle | 15° | |

Padfoot Specifications

| | | |
|-------------------------------------|----------------------|----------------------|
| Number of Pads | 140 | |
| Pad Height, oval pads | 127 mm | 5 in |
| Pad Face Area, oval pads | 74.4 cm ² | 11.5 in ² |
| Pad Height, optional square pads | 100 mm | 3.9 in |
| Pad Face Area, optional square pads | 123 cm ² | 19.1 in ² |
| Number of Chevrons | 14 | |



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Environmental Declaration

The following information applies to the machine at the time of final manufacture as configured for sale in the regions covered in this document. The content of this declaration is valid as of the date issued; however, content related to machine features and specifications are subject to change without notice. For additional information, please see the machine's Operation and Maintenance Manual.

For more information on sustainability in action and our progress, please visit www.caterpillar.com/en/company/sustainability.html.

ENGINE

- The Cat C4.4 is available in configurations that meet U.S. Tier 4 Final and EU Stage IV emissions standards.
- Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels up to:
 - ✓ 20% biodiesel FAME (fatty acid methyl ester)*
 - ✓ 100% renewable diesel, HVO (hydrogenated vegetable oil) and GTL (gas-to-liquid) fuels

Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.

**Engines with no aftertreatment devices can use higher blends, up to 20% biodiesel.*

AIR CONDITIONING SYSTEM

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.8 kg (1.8 lb) of refrigerant, which has a CO₂ equivalent of 1.144 metric tonnes (1.261 tons).

PAINT

- Based on best available knowledge, the maximum allowable concentration, measured in parts per million (PPM), of the following heavy metals in paint are:
 - Barium < 0.01%
 - Cadmium < 0.01%
 - Chromium < 0.01%
 - Lead < 0.01%

SOUND PERFORMANCE

With cooling fan speed at maximum value:

Exterior Sound Power Level (ISO 6395:2008) – 108 dB(A)

With cooling fan speed at 70% of maximum value:

Operator Sound Pressure Level (ISO 6396:2008) – 79 dB(A)

- When properly installed and maintained, the cab offered by Caterpillar, when tested with doors and windows closed according to ANSI/SAE J1166 OCT98, meets OSHA and MSHA requirements for operator sound exposure limits in effect at time of manufacture.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/windows open) for extended periods or in a noisy environment.

OILS AND FLUIDS

- Caterpillar factory fills with ethylene glycol coolants. Cat Diesel Engine Antifreeze/Coolant (DEAC) and Cat Extended Life Coolant (ELC) can be recycled. Consult your Cat dealer for more information.
- Cat BIO HYDO™ Advanced is an EU Ecolabel approved biodegradable hydraulic oil.
- Additional fluids are likely to be present, please consult the Operations and Maintenance Manual or the Application and Installation guide for complete fluid recommendations and maintenance intervals.

FEATURES AND TECHNOLOGY

- The following features and technology may contribute to fuel savings and/or carbon reduction. Features may vary. Consult your Cat dealer for details.
 - Standard eco-mode limits engine RPM, lowering overall fuel consumption compared to high idle
 - Optional compaction control reduces unnecessary passes, contributing to lower overall fuel consumption
 - Extended maintenance intervals reduce fluid and filter consumption
 - Auto idle shutdown reduces unproductive hours and fuel burned
 - Hydraulic on demand fan changes speed with temperature

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

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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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Build Number 01A

