



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.

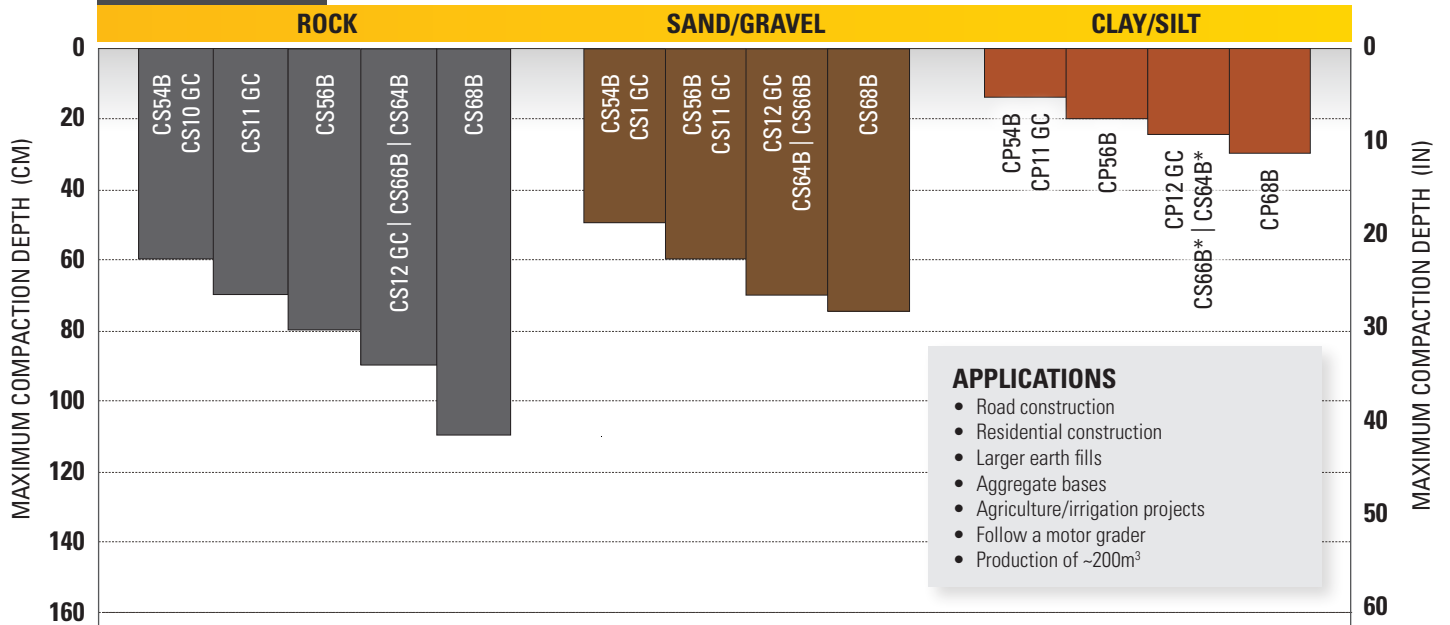
| | Standard | Optional | | Standard | Optional |
|--|----------|----------|--|----------|----------|
| OPERATOR ENVIRONMENT | | | POWER TRAIN | | |
| ROPS/FOPS Cab with Climate Control, External Rear View Mirrors | ✓ | | Cat C4.4 Diesel Engine | ✓ | |
| Cloth Adjustable Pivoting Seat with Integrated Console and LCD Display | ✓ | | Air Cleaner, Dual Element | ✓ | |
| Adjustable Tilting Steering Column with Integrated Cup Holders | ✓ | | Three-Speed Throttle Switch, Eco-mode and Automatic Speed Control | ✓ | |
| Rear Vision Camera with Color Touchscreen Display | ✓ | | Dual Propel Pumps; One for Drum Drive, One for Rear Axle | ✓ | |
| High Visibility Orange 50 mm (2 in) 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 | ✓ | |
| Internal Rear View Mirror | | ✓ | Two-speed Hydrostatic Transmission | ✓ | |
| Sun Visor | | ✓ | Transmission Guard | | ✓ |
| Cab Internal Roll-down Sun Screen | | ✓ | ELECTRICAL | | |
| High Visibility Orange 76 mm (3 in) Seat Belt | | ✓ | 24 volt Electrical System | ✓ | |
| VIBRATORY SYSTEM | | | 100 ampere Alternator | ✓ | |
| Padfoot Drum | ✓ | | 750 Cold-cranking Amps Battery Capacity | ✓ | |
| Dual Amplitude, Single Frequency | ✓ | | OTHER | | |
| Dual Pod-Style Eccentric Weight Housings | ✓ | | Product Link™ | ✓ | |
| Auto-vibe Function | ✓ | | Sight Gauges Hydraulic Oil Level and Radiator Coolant Level | ✓ | |
| Dual Adjustable Steel Scrapers | ✓ | | S•O•S SM Sampling Valves: Engine Oil, Hydraulic Oil and Coolant | ✓ | |
| Leveling Blade | | ✓ | Machine tie downs - front and rear (meet ISO 15818) | ✓ | |
| Variable Frequency | | ✓ | Recording Module | | ✓ |
| TECHNOLOGY SOLUTIONS | | | Factory Filled Bio Hydraulic Oil | | ✓ |
| Measure - Machine Drive Power | | ✓ | Upgraded Halogen Light Package | | ✓ |
| Map - SBAS GNSS Mapping | | ✓ | Upgraded LED Light Package | | ✓ |
| Connect - Cloud and Machine Connectivity | | ✓ | Amber Rotating Beacon | | ✓ |
| Command for Compaction | | ✓ | 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 - Power Train | | |
|--|------------|-----------------------|
| Engine Model | Cat® C4.4 | |
| Emissions | EU Stage V | |
| Engine Power ISO 14396:2002 | 117.0 kW | 156.9 hp |
| Gross Power SAE J1995:2014 | 118.0 kW | 158.2 hp |
| Net Power ISO 9249:2007* | 97.4 kW | 130.6 hp |
| Net Power SAE J1349:2011* | 96.2 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, no vibration** | > 65% | |

| 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 |
| VM Class at High Amplitude | VM3 | |

| Weights | | |
|--------------------------------------|-----------|-----------|
| Operating Weight w/ ROPS/FOPS cab*** | 12 260 kg | 27,029 lb |
| w/ Leveling Blade | 12 914 kg | 28,470 lb |
| Weight at Drum w/ ROPS/FOPS cab | 6566 kg | 14,476 lb |
| w/ Leveling Blade | 7476 kg | 16,482 lb |

| Service Refill Capacities | | |
|--------------------------------------|--------|----------|
| Fuel Tank, total capacity | 242 L | 64 gal |
| Diesel Exhaust Fuel 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, clean emissions module, and alternator.

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

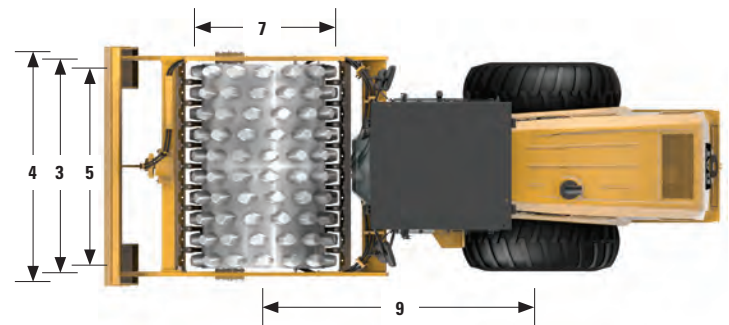
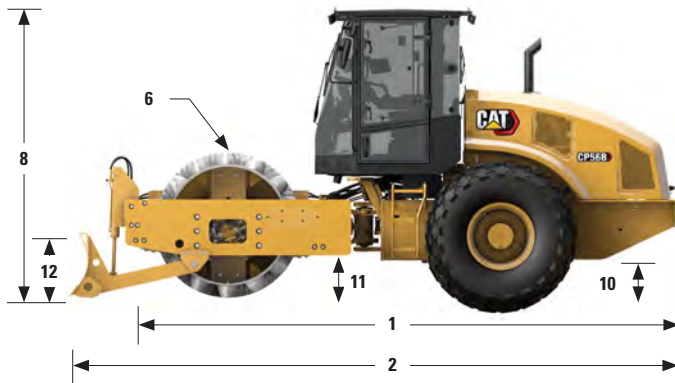
*** Standard operating weight considers full fuel tank, 75 kg operator, traction tires, oval pad drum, and cab with A/C.

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Technical Specifications

| Dimensions | | | |
|------------|---|---------|---------|
| 1 | Overall Length | 5.9 m | 19.2 ft |
| 2 | Overall Length w/ optional Leveling Blade | 6.4 m | 21.0 ft |
| 3 | Overall Width | 2.3 m | 7.5 ft |
| 4 | Overall Width w/ optional Leveling Blade | 2.5 m | 8.2 ft |
| 5 | Drum Width | 2134 mm | 84 in |
| 6 | Drum Shell Thickness | 25 mm | 1.0 in |
| 7 | Drum Diameter | 1549 mm | 61.0 in |
| 8 | Overall Height | 3.1 m | 10.2 ft |
| 9 | Wheelbase | 2.9 m | 9.5 ft |
| 10 | Ground Clearance | 452 mm | 17.8 in |
| 11 | Curb Clearance | 500 mm | 19.7 in |
| 12 | Optional Leveling Blade Height | 688 mm | 27.1 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 | | 127.0 mm | 5.0 in |
| Pad Face Area, oval pads | | 74.4 cm ² | 11.5 in ² |
| Pad Height, optional square pads | | 100.0 mm | 3.9 in |
| Pad Face Area, optional square pads | | 123.1 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 Stage V 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.

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) – 109 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 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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