



# Cat<sup>®</sup> CP13 GC

## Padfoot Drum Vibratory Soil Compactor

*Cat<sup>®</sup> CP13 GC Vibratory Soil Compactors bring a balance of easy operation, low operating costs and performance-boosting technology to the jobsite. Using a proven vibratory system designed for high reliability, the CP13 GC padfoot roller is ideally suited for cohesive and semi-cohesive soil applications.*

### Reliable Power

- The propel system is driven by a single pump design and is ideal for flat to moderate grades.
- Powered by a Cat<sup>®</sup> C4.4 engine that meets Brazil MAR-1, equivalent to U.S. EPA Tier 3 and EU Stage IIIA emission standards.
- Eco-mode limits engine RPM helping to reduce fuel consumption.

### Comfortable and Ergonomic Operator Station

- The ISO-mounted operator station and rubber floor mats help reduce noise and vibration for comfort during operation.
- Easy to use controls are grouped by function and a large display informs operators of machine performance.
- The seat, armrest and steering column are adjustable for all-day comfort.
- Operators are protected from the elements by a standard equipped sun canopy, optional ROPS/FOPS canopy or optional climate-controlled ROPS/FOPS cab with hinged glass windows.
- Upgrade the standard adjustable vinyl seat to a vinyl suspension seat with arm rest for enhanced operator comfort. A deluxe high back air-ride seat option is available for cab configurations.

### Safety Features

- Angled steps, handrails, and an antiskid surface help provide stability during entry and exit of the operator station.
- Internal and external mirrors are available to provide the operator with a broad view of the jobsite.
- Enhance visibility with an optional rear vision camera with large color touchscreen display for more complete operator control and safety.
- Optional operator presence seat sensor and seat belt switch.

### Excellent Compaction Performance

- The exclusive pod-style eccentric weight vibratory system is designed to provide high reliability, smooth performance and low noise levels with a 3-year, 3000-hour maintenance interval.
- High static linear loads and amplitudes.
- The optional Traction Control system helps improve traction in soft underfoot conditions such as sand or loose material.
- The Auto-vibe function helps operators easily maintain consistent, high-quality compaction.
- The drum features unique, tapered, oval-faced pads engineered to penetrate deeper and deliver higher weight concentration to maximize compactive effort. Also available in a square pad design.

### Enhance Quality and Productivity with Technology

- Optional Cat Compact technologies help you consistently meet compaction targets faster, more uniformly, and in fewer passes – saving on fuel and reducing rework and material costs.
  - Exclusive Machine Drive Power (MDP) is an energy-based measurement and can be used on all soil types in either static or vibratory mode.



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## Virtually Maintenance Free

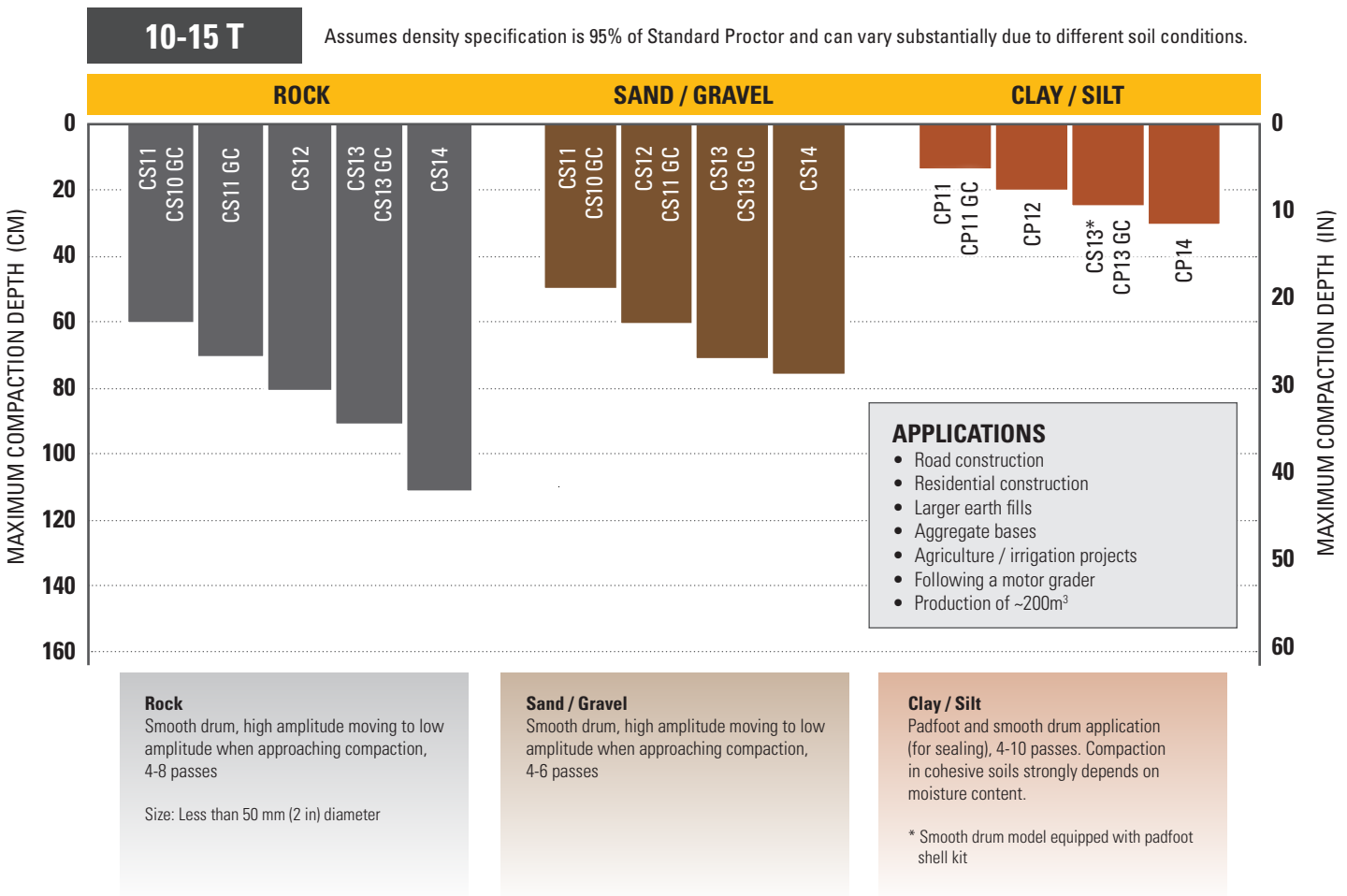
- The articulated hitch with sealed-for-life bearings does not require routine maintenance.
- Ground-level access to all maintenance points for easy service and fluid sampling.
- Monitor fluid conditions with regular sampling to help extend change intervals up to 500 hours engine oil, 3000 hours eccentric housing and hydraulic oil, and 12000 hours coolant.
- Extended maintenance intervals not only reduce downtime but decrease the amount of fluid and filters that are replaced over the life of the machine.

- VisionLink® takes the guesswork out of managing your entire fleet—regardless of size or equipment manufacturer\*—by providing maintenance needs, machine hours, location, fuel usage, idle time, diagnostic codes, and more through interactive dashboards on your mobile device or desktop, helping you make informed decisions that lower costs, simplify maintenance, and improve safety and security on your jobsite.

\* Data field availability can vary by equipment manufacturer and is provided through an application programming interface (API).

## Vibratory Soil Compactor Selection Guide

This chart helps you select which model is best suited for your work. Not all models listed are available in each region. Contact your Cat dealer representative for more information.



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## Standard and Optional Equipment

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

|   | Standard | Optional |   | Standard | Optional |
|---|----------|----------|---|----------|----------|
| <b>OPERATOR ENVIRONMENT</b>   |          |          | <b>TECHNOLOGY SOLUTIONS</b>   |          |          |
| Sun Canopy with Handrails, Floor Mat, Interior Rear View Mirror           | ✓        |          | VisionLink®   | ✓        |          |
| ROPS/FOPS Canopy with Handrails, Floor Mat, Interior Rear View Mirror     |          | ✓        | Remote Disable  |          | ✓        |
| ROPS/FOPS Cab with Climate Control, Floor Mat, Exterior Rear View Mirrors |          | ✓        | Measure – Machine Drive Power (MDP)   |          | ✓        |
| Vinyl Adjustable Seat   | ✓        |          | Machine Speed Sensor  |          | ✓        |
| Vinyl Suspension Seat   |          | ✓        | <b>POWERTRAIN</b>   |          |          |
| Deluxe High-back Air-ride Seat (Cab)                                      |          | ✓        | Cat® C4.4 Engine  | ✓        |          |
| Sun/Debris Shields (Canopy)   |          | ✓        | Single Propel Pump  | ✓        |          |
| Roll-down Sun Screen (Cab)  |          | ✓        | Fuel Filter, Water Separator, Priming Pump, Water Indicator                                 | ✓        |          |
| Interior Rear View Mirror (Cab)   |          | ✓        | Eco-Mode  | ✓        |          |
| Exterior Rear View Mirrors (Canopy)                                       |          | ✓        | Radiator/Hydraulic Oil Cooler   | ✓        |          |
| Adjustable Tilting Steering Column  | ✓        |          | Dual Braking System   | ✓        |          |
| Rear View Camera with Color Touchscreen Display                           |          | ✓        | Two-Speed Hydrostatic Transmission  | ✓        |          |
| High Visibility 76 mm (3 in) Seat Belt                                    | ✓        |          | Limited Slip Differential   | ✓        |          |
| 12-Volt Power Outlet  | ✓        |          | Traction Control Basic  |          | ✓        |
| Horn, Backup Alarm  | ✓        |          | Traction Control Advanced   |          | ✓        |
| Seat Belt Switch  |          | ✓        | Transmission Guard  |          | ✓        |
| Sound Reduction Kit   |          | ✓        | <b>ELECTRICAL</b>   |          |          |
| <b>VIBRATORY SYSTEM</b>   |          |          | 12-Volt Electrical System   | ✓        |          |
| Padfoot Drum – Oval or Square Pads  | ✓        |          | 120-Amp Alternator  | ✓        |          |
| Pod-Style Eccentric Weight Housings                                       | ✓        |          | 900 Cold-cranking Amps Battery Capacity   | ✓        |          |
| Dual Amplitude, Dual Frequency  | ✓        |          | Battery Disconnect Switch   | ✓        |          |
| Auto-vibe Function  | ✓        |          | <b>OTHER</b>  |          |          |
| Dual Adjustable Steel Scrapers  | ✓        |          | Sight Gauges for Hydraulic Oil Level and Radiator Coolant Level                             | ✓        |          |
|   |          |          | Scheduled Oil Sampling (S•O•S <sup>SM</sup> ) Ports: Engine Oil, Hydraulic Oil, and Coolant | ✓        |          |
|   |          |          | High Ambient Hydraulic Oil (Factory Fill)   |          | ✓        |
|   |          |          | Lug Tread Tires   | ✓        |          |
|   |          |          | Working Lights (2 Forward, 2 Rear)  | ✓        |          |
|   |          |          | Upgraded Lighting Package (4 Forward, 4 Rear)   |          | ✓        |
|   |          |          | Amber Rotating Beacon   |          | ✓        |

# Cat® CP13 GC Padfoot Drum Vibratory Soil Compactor

## Technical Specifications

### Engine and Powertrain

|   |   |                       |
|---|---|-----------------------|
| Engine Model  | Cat C4.4  |                       |
| Emissions   | Brazil MAR-1, equivalent to U.S. EPA Tier 3 and EU Stage IIIA |                       |
| Engine Power – ISO 14396:2002                         | 83 kW   | 111.3 hp              |
| Gross Power – SAE J1995:2014                          | 83.8 kW   | 112.4 hp              |
| Net Power – ISO 9249:2014*                            | 79.4 kW   | 106.5 hp              |
| Net Power – SAE J1349:2011*                           | 78.5 kW   | 105.3 h               |
| Number of Cylinders                                   | 4   |                       |
| Displacement  | 4.4 L   | 268.5 in <sup>3</sup> |
| Stroke  | 127 mm  | 5 in                  |
| Bore  | 105 mm  | 4.1 in                |
| Maximum Travel Speed                                  | 11 km/h   | 6.84 mph              |
| Traction Control Advanced                             | 10 km/h   | 6.2 mph               |
| Theoretical Gradeability, with or without vibration** | 50%   |                       |

\* 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.

### Vibratory System

|  |         |           |
|--|---------|-----------|
| Nominal Amplitude – High                       | 1.8 mm  | 0.071 in  |
| Frequency at High Idle                         | 30 Hz   | 1800 vpm  |
| Frequency at Eco-Mode                          | 28.6 Hz | 1716 vpm  |
| Nominal Amplitude – Low                        | 0.89 mm | 0.035 in  |
| Frequency at High Idle                         | 33 Hz   | 1980 vpm  |
| Frequency at Eco-Mode                          | 31.5 Hz | 1890 vpm  |
| Centrifugal Force                              |         |           |
| Maximum @ 30 Hz (1800 vpm)                     | 249 kN  | 55,932 lb |
| Minimum @ 33 Hz (1980 vpm)                     | 148 kN  | 33,249 lb |
| VM Class at High Amplitude (Cab Configuration) | VM3     |           |

### Weights

#### Operating Weight

|                     |           |           |
|---------------------|-----------|-----------|
| Sun Canopy          |           |           |
| Oval Padfoot Drum   | 12 307 kg | 27,132 lb |
| Square Padfoot Drum | 12 339 kg | 27,203 lb |
| ROPS/FOPS Canopy    |           |           |
| Oval Padfoot Drum   | 12 485 kg | 27,524 lb |
| Square Padfoot Drum | 12 517 kg | 27,594 lb |
| ROPS/FOPS Cab       |           |           |
| Oval Padfoot Drum   | 12 639 kg | 27,863 lb |
| Square Padfoot Drum | 12 671 kg | 27,934 lb |

#### Weight at Drum

|                     |         |           |
|---------------------|---------|-----------|
| Sun Canopy          |         |           |
| Oval Padfoot Drum   | 7655 kg | 16,877 lb |
| Square Padfoot Drum | 7687 kg | 16,947 lb |
| ROPS/FOPS Canopy    |         |           |
| Oval Padfoot Drum   | 7725 kg | 17,030 lb |
| Square Padfoot Drum | 7757 kg | 17,100 lb |
| ROPS/FOPS Cab       |         |           |
| Oval Padfoot Drum   | 7767 kg | 17,123 lb |
| Square Padfoot Drum | 7800 kg | 17,195 lb |

Operating weights are approximate and consider full fluids and 75 kg (165 lb) operator. Cab weights include heat and air conditioning.

### Service Refill Capacities

|                                      |        |          |
|--------------------------------------|--------|----------|
| Fuel Tank (total capacity)           | 248 L  | 65.5 gal |
| Cooling System                       | 18.5 L | 4.9 gal  |
| Engine Oil with Filter               | 9.5 L  | 2.5 gal  |
| Eccentric Weight Housings (combined) | 26 L   | 6.9 gal  |
| Axle and Final Drives                | 10 L   | 2.6 gal  |
| Hydraulic Tank                       | 23 L   | 6.1 gal  |

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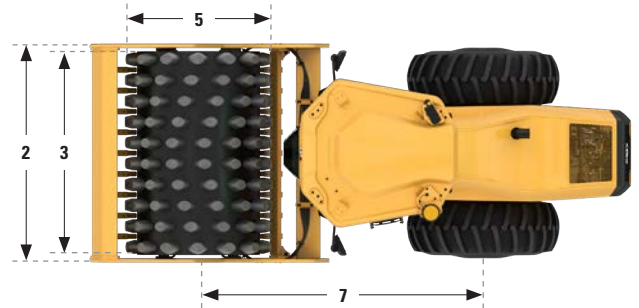
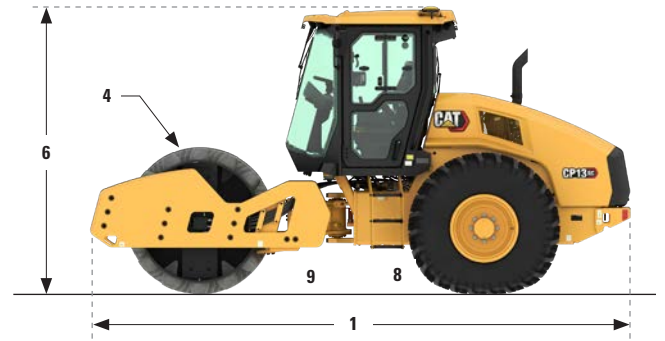
## Technical Specifications

### Dimensions

|   |                          |         |         |
|---|--------------------------|---------|---------|
| 1 | Overall Length           | 5.7 m   | 18.7 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            | 1549 mm | 60.9 in |
| 6 | Overall Height           | 3 m     | 9.8 ft  |
| 7 | Wheelbase                | 3 m     | 9.8 ft  |
| 8 | Ground Clearance         | 516 mm  | 20.3 in |
| 9 | Curb Clearance           | 496 mm  | 19.5 in |
|   | Inside Turning Radius    | 3.9 m   | 12.7 ft |
|   | Hitch Articulation Angle | 34°     |         |
|   | Hitch Oscillation Angle  | 15°     |         |

### Padfoot Drum

|  |                    |                      |                      |
|--|--------------------|----------------------|----------------------|
|  | Number of Pads     | 140                  |                      |
|  | Number of Chevrons | 14                   |                      |
|  | Oval Pads          |                      |                      |
|  | Pad Height         | 127 mm               | 5 in                 |
|  | Pad Face Area      | 74.4 cm <sup>2</sup> | 11.5 in <sup>2</sup> |
|  | Square Pads        |                      |                      |
|  | Pad Height         | 100 mm               | 3.9 in               |
|  | Pad Face Area      | 123 cm <sup>2</sup>  | 19.1 in <sup>2</sup> |



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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](http://www.caterpillar.com/en/company/sustainability.html).

## ENGINE

- The Cat C4.4 meets Brazil MAR-1, equivalent to U.S. EPA Tier 3 and EU Stage IIIA emission standards.
- Cat engines are compatible with diesel fuel blended with the following lower-carbon intensity fuels\* up to:
  - ✓ 20% biodiesel FAME (fatty acid methyl ester)
  - ✓ 100% renewable diesel, HVO (hydrotreated 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.

*\*Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.*

## AIR CONDITIONING SYSTEM

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 2.2 kg (4.91 lb) of refrigerant, which has a CO<sub>2</sub> equivalent of 3.146 metric tonnes (3.468 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:

Operator Sound Pressure Level (ISO 6396:2008) – 85 dB(A)

Exterior Sound Power Level (ISO 6395:2008) – 111 dB(A)

- The operator sound pressure level is measured according to the test procedures and conditions specified in ISO 6396:2008 for a cab offered by Caterpillar, when properly installed and maintained and tested with the door and windows closed. The measurements were conducted at 100% of the maximum engine cooling fan speed.
- The exterior sound power level is measured according to the test procedures and conditions specified in ISO 6395:2008 for a Caterpillar machine that is properly equipped and maintained. The measurements were conducted at 100% of the maximum engine cooling fan speed.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained for doors/windows open) for extended periods or in noisy environment(s).

## 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
  - Optional compaction control technology reduces unnecessary passes, increasing operating efficiency
  - Extended maintenance intervals reduce fluid and filter consumption

## RECYCLING

- The materials included in machines are categorized as below with approximate weight percentage. Because of variations of product configurations, the following values in the table may vary.

| Material Type            | Weight Percentage |
|--------------------------|-------------------|
| Steel                    | 71.01%            |
| Iron                     | 9.02%             |
| Plastic                  | 7.11%             |
| Other                    | 3.39%             |
| Fluid                    | 3.12%             |
| Rubber                   | 2.32%             |
| Nonferrous Metal         | 1.93%             |
| Uncategorized            | 1.55%             |
| Mixed-Metal and Nonmetal | 0.42%             |
| Mixed Metal              | 0.12%             |
| Mixed Nonmetallic        | 0.00%             |
| Total                    | 100%              |

- A machine with higher recyclability rate will ensure more efficient usage of valuable natural resources and enhance End-of-Life value of the product. According to ISO 16714:2008 (Earthmoving machinery – Recyclability and recoverability – Terminology and calculation method), recyclability rate is defined as percentage by mass (mass fraction in percent) of the new machine potentially able to be recycled, reused or both.

All parts in the bill of material are first evaluated by component type based on a list of components defined by the ISO 16714:2008 and Japan CEMA (Construction Equipment Manufacturers Association) standards. Remaining parts are further evaluated for recyclability based on material type.

Because of variations of product configurations, the following value in the table may vary.

Recyclability – 95%



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See your Cat dealer for available options.

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Build Number: 01A  
(Brazil MAR-1, equivalent to  
U.S. EPA Tier 3 and EU Stage IIIA)

