



# Cat<sup>®</sup> CS11 GC

## Smooth Drum Vibratory Soil Compactor

The Cat<sup>®</sup> CS11 GC features a smooth drum and is ideally suited for granular soil applications with the use of an optional padfoot shell kit for cohesive soil applications.

### Superior Compaction Performance

- High weight at the drum and high amplitude deliver superior compaction performance.

### Comfortable and Ergonomic Operator Station

- Simple controls are within reach.
- Outstanding visibility to the front and rear of the machine.

### Proven and Exclusive Cat Features

- Includes the ultra-reliable pod-style vibratory system and sealed-for-life hitch bearing.

### Reliable Cat Engine

- The Cat engine provides ample power and consistent performance.
- Standard Eco-mode reduces fuel use during normal operation.

### Simple Maintenance

- Maintenance-free hitch bearings and extended maintenance intervals for vibratory system and hydraulic system provide more uptime and lower maintenance costs.

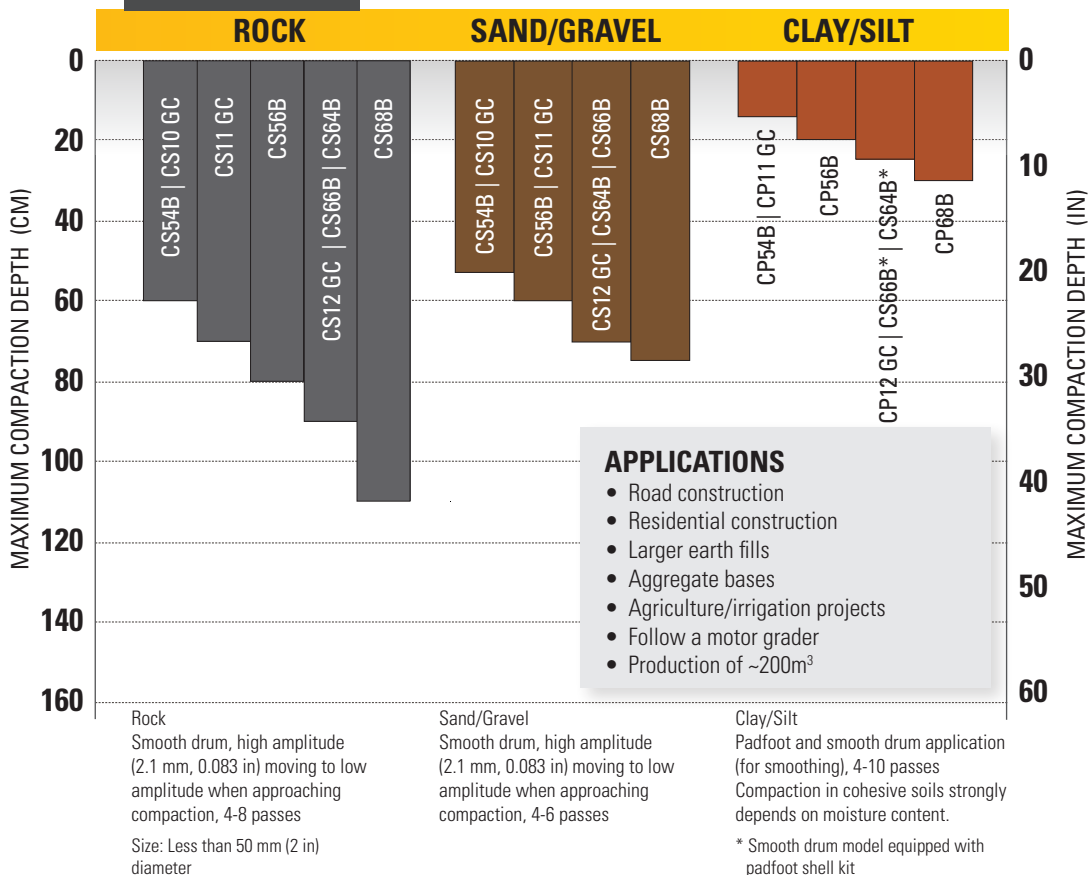
### Optional Cat Compaction Control Technology

- Compaction control helps the operator determine when compaction has been completed to specification for greater productivity and uniform compaction quality.
- Scalable solutions can be configured to meet customer needs.

## 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.



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## Technical Specifications

| Engine - Power Train                                  |                                   |                       |
|---|-----------------------------------|-----------------------|
| Engine Model  | Cat C3.6                          |                       |
| Global Emissions                                      | US EPA Tier 4 Final<br>EU Stage V |                       |
| Gross Power ISO 14396                                 | 90.0 kW                           | 121.0 hp              |
| Gross Power SAE J1995                                 | 91.7 kW                           | 123.0 hp              |
| Net Power ISO 9249*                                   | 83.7 kW                           | 112.2 hp              |
| Net Power SAE J1349*                                  | 82.9 kW                           | 111.2 hp              |
| Displacement  | 3.6 L                             | 219.7 in <sup>3</sup> |
| Stroke  | 120 mm                            | 4.7 in                |
| Bore  | 98 mm                             | 3.9 in                |
| Max. Travel Speed (Forward or Reverse)                | 11 km/h                           | 6.84 mph              |
| Theoretical Gradeability, with or without vibration** | 55%                               |                       |

| Weights                              |           |           |
|--------------------------------------|-----------|-----------|
| Operating Weight w/ ROPS/FOPS canopy | 11 020 kg | 24,295 lb |
| Operating Weight w/ ROPS/FOPS cab    | 11 182 kg | 24,652 lb |
| Weight at Drum w/ ROPS/FOPS canopy   | 6044 kg   | 13,325 lb |
| Weight at Drum w/ ROPS/FOPS cab      | 6090 kg   | 13,426 lb |

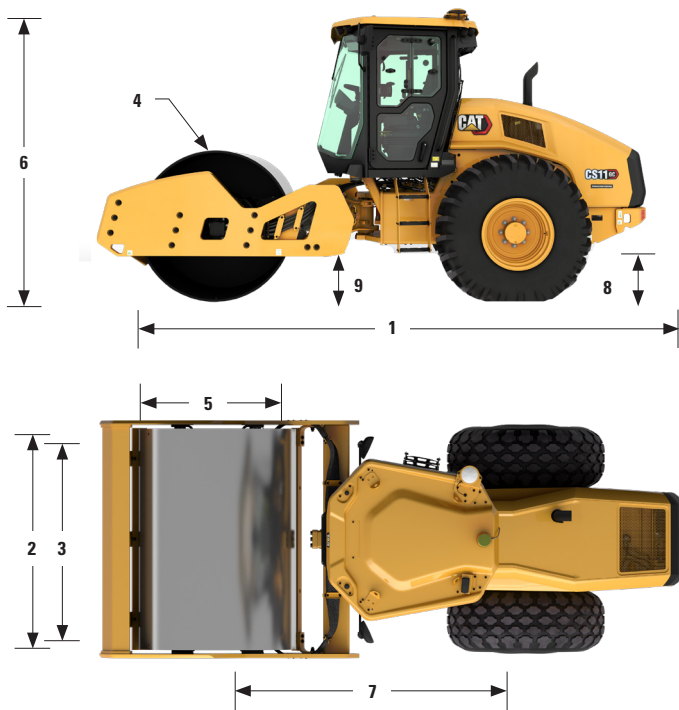
\* Net power advertised is the power available at the engine flywheel when equipped with a fan at maximum speed, air cleaner, clean emissions module, and alternator.

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

| Vibratory System Specifications   |            |              |
|-----------------------------------|------------|--------------|
| Nominal Amplitude - High          | 2.0 mm     | 0.079 in     |
| Frequency at High Idle            | 30.0 Hz    | 1800 vpm     |
| Frequency at Eco-Mode             | 28.6 Hz    | 1716 vpm     |
| Nominal Amplitude - Low           | 1.0 mm     | 0.039 in     |
| Frequency at High Idle            | 33 Hz      | 1980 vpm     |
| Frequency at Eco-Mode             | 31.5 Hz    | 1890 vpm     |
| Centrifugal Force                 |            |              |
| Maximum                           | 250 kN     | 56,200 lb    |
| Minimum                           | 149 kN     | 33,500 lb    |
| Static Linear Load                |            |              |
| w/ ROPS/FOPS canopy               | 28.3 kg/cm | 158.5 lb/in  |
| w/ ROPS/FOPS cab                  | 28.5 kg/cm | 159.6 lbs/in |
| French classification, data/class | 40.4       | VM3          |
| w/ ROPS/FOPS cab                  |            |              |

| Service Refill Capacities            |        |          |
|--------------------------------------|--------|----------|
| Fuel Tank, total capacity            | 213 L  | 56.3 gal |
| Diesel Exhaust Fuel refill capacity  | 19 L   | 5.0 gal  |
| Cooling System                       | 18.5 L | 4.9 gal  |
| Engine Oil w/ Filter                 | 11.6 L | 3.1 gal  |
| Eccentric Weight Housings (combined) | 26 L   | 6.9 gal  |
| Axle and Final Drives                | 10 L   | 2.6 gal  |
| Hydraulic Tank (service refill)      | 23 L   | 6.1 gal  |

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## Dimensions

|   |                             |         |          |
|---|-----------------------------|---------|----------|
| 1 | Overall Length              | 5.70 m  | 18.71 ft |
| 2 | Overall Width               | 2.30 m  | 7.53 ft  |
| 3 | Drum Width                  | 2134 mm | 84 in    |
| 4 | Drum Shell Thickness        | 25 mm   | 0.98 in  |
| 5 | Drum Diameter               | 1535 mm | 60.4 in  |
| 6 | Overall Height              | 3.0 m   | 9.8 ft   |
|   | w/ Padfoot Shell Kit option | 3.03 m  | 9.93 ft  |
| 7 | Wheelbase                   | 3.0 m   | 9.8 ft   |
| 8 | Ground Clearance            | 518 mm  | 20.4 in  |
| 9 | Curb Clearance              | 492 mm  | 19.4 in  |
|   | Inside Turning Radius       | 3.86 m  | 12.7 ft  |
|   | Hitch Articulation Angle    | 34°     |          |
|   | Hitch Oscillation Angle     | 15°     |          |

## Optional Padfoot Shell Kit Specifications

|                                     |                       |                      |
|-------------------------------------|-----------------------|----------------------|
| Number of Pads                      | 120                   |                      |
| Pad Height, oval pads               | 90 mm                 | 3.5 in               |
| Pad Face Area, oval pads            | 63.5 cm <sup>2</sup>  | 9.8 in <sup>2</sup>  |
| Pad Height, optional square pads    | 90 mm                 | 3.5 in               |
| Pad Face Area, optional square pads | 105.6 cm <sup>2</sup> | 16.4 in <sup>2</sup> |
| Number of Chevrons                  | 16                    |                      |

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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>POWER TRAIN</b>   |          |          |
| ROPS/FOPS Canopy with Handrails/Guardrails, Floor Mat | ✓        |          | Cat C3.6 Diesel Engine, 4 cylinder   | ✓        |          |
| Vinyl Adjustable Seat, Seat Belt                      | ✓        |          | Single Propel Pump   | ✓        |          |
| Adjustable Tilting Steering Column                    | ✓        |          | Fuel Filter, Water Separator, Priming Pump, Water Indicator                | ✓        |          |
| 12-volt Power Outlet                                  | ✓        |          | Radiator/Hydraulic Oil Cooler  | ✓        |          |
| Horn, Backup Alarm                                    | ✓        |          | Dual Braking System  | ✓        |          |
| Internal Rear View Mirror                             | ✓        |          | Two-speed Hydrostatic Transmission   | ✓        |          |
| ROPS/FOPS Cab with Climate Control                    |          | ✓        | Transmission Guard   |          | ✓        |
| Deluxe High-back Air-ride seat (Cab)                  |          | ✓        | <b>TECHNOLOGY SOLUTIONS</b>  |          |          |
| Sun/Debris Shields (Canopy)                           |          | ✓        | Measure - Machine Drive Power and/or CMV                                   |          | ✓        |
| Cab Internal Roll-down Sun Screen (Cab)               |          | ✓        | Map - SBAS GNSS Mapping  |          | ✓        |
| Rear View Camera with Color Touchscreen Display       |          | ✓        | Connect - Cloud and Machine Connectivity                                   |          | ✓        |
| Sound Reduction Kit                                   |          | ✓        | <b>ELECTRICAL</b>  |          |          |
| <b>VIBRATORY SYSTEM</b>                               |          |          | 12 volt Electrical System  | ✓        |          |
| Smooth Drum   | ✓        |          | 150 ampere Alternator  | ✓        |          |
| Dual Amplitude, Dual Frequency                        | ✓        |          | 900 Cold-cranking Amps Battery Capacity                                    | ✓        |          |
| Pod-Style Eccentric Weight Housings                   | ✓        |          | <b>OTHER</b>   |          |          |
| Auto-vibe Function                                    | ✓        |          | Product Link™  | ✓        |          |
| Rear Adjustable Steel Scraper                         | ✓        |          | Sight Gauges for Hydraulic Oil Level and Radiator Coolant Level            | ✓        |          |
| Padfoot Shell Kit (oval or square pads available)     |          | ✓        | S-O-S <sup>SM</sup> Sampling Valves: Engine Oil, Hydraulic Oil and Coolant | ✓        |          |
| Dual Adjustable Steel Scrapers                        |          | ✓        | High Ambient Temperature Oil Factory Fill                                  |          | ✓        |
| Dual Adjustable Polyurethane Scrapers                 |          | ✓        | XT Weight Kit  |          | ✓        |
|   |          |          | Upgraded LED Light Package   |          | ✓        |
|   |          |          | Amber Rotating Beacon  |          | ✓        |
|   |          |          | Flotation Tread or Lug Tread Tires   |          | ✓        |

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at [www.cat.com](http://www.cat.com)

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