

Cat[®] CS11 GC Smooth Drum Vibratory Soil Compactor

The Cat[®] 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 sealedfor-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



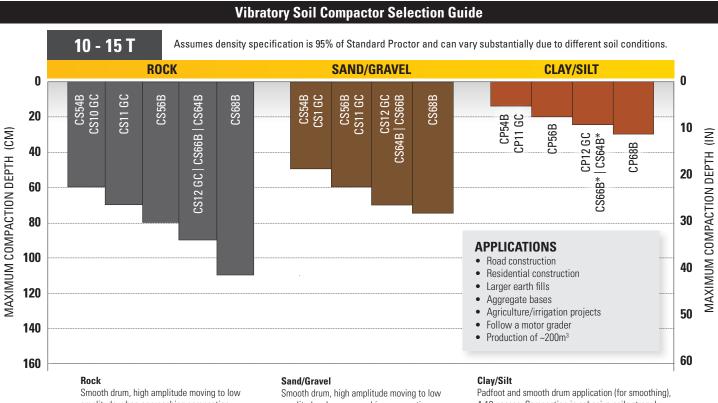
Standard and Optional Equipment

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

| | Standard | Optional |
|--|--------------|--------------|
| OPERATOR ENVIRONMENT | | |
| Sun Canopy with Platform Handrails/ Guardrails, Floor Mat | \checkmark | |
| Vinyl Adjustable Seat, Seat Belt | \checkmark | |
| Adjustable Tilting Steering Column | \checkmark | |
| 12-volt Power Outlet | \checkmark | |
| Horn, Backup Alarm | \checkmark | |
| Internal Rear View Mirror | \checkmark | |
| ROPS/FOPS Canopy with Handrails/ Guardrails, Floormat | | \checkmark |
| ROPS/FOPS Cab with Climate Control | | \checkmark |
| Rear View Camera with Color Touchscreen Display (Cab) | | \checkmark |
| Sun/Debris Shields (Canopy) | | \checkmark |
| Cab Internal Roll-down Sun Screen (Cab) | | \checkmark |
| Sound Reduction Kit | | \checkmark |
| Sun Visor (Cab) | | \checkmark |
| Vinyl Suspension Seat with Arm Rest | | \checkmark |
| Deluxe High-Back Air-ride Seat (Cab) | | \checkmark |
| VIBRATORY SYSTEM | | |
| Smooth Drum | \checkmark | |
| Dual Amplitude, Dual Frequency | \checkmark | |
| Pod-Style Eccentric Weight Housings | \checkmark | |
| Auto-Vibe Function | \checkmark | |
| Rear Adjustable Steel Scraper | \checkmark | |
| Padfoot Shell Kit (oval or square pads available) | | \checkmark |
| Dual Adjustable Steel Scrapers | | ✓ |
| Dual Adjustable Polyurethane Scrapers | | \checkmark |

| | Standard | Optional |
|---|--------------|--------------|
| POWERTRAIN | | |
| Cat [®] C4.4 Diesel Engine, 4-cylinder | \checkmark | |
| Single Propel Pump | \checkmark | |
| Dual Fuel Filter, Water Separator, Priming Pump, Water Indicator | \checkmark | |
| Radiator/Hydraulic Oil Cooler, Charge Air Cooler | \checkmark | |
| Dual Braking System | \checkmark | |
| Two-Speed Hydrostatic Transmission | \checkmark | |
| Transmission Guard | | \checkmark |
| TECHNOLOGY SOLUTIONS | | |
| Measure - Machine Drive Power and/or CMV | | \checkmark |
| Map - SBAS GNSS Mapping | | \checkmark |
| Connect - Machine-to-Machine Communication | | \checkmark |
| ELECTRICAL | | |
| 12-volt Electrical System | \checkmark | |
| 120 ampere Alternator | \checkmark | |
| 900 Cold-Cranking Amps Battery Capacity | \checkmark | |
| OTHER | | |
| Product Link™ | \checkmark | |
| Sight Gauges for Hydraulic Oil Level and Radiator Coolant Level | \checkmark | |
| S•O•S [™] Sampling Valves: Engine Oil, Hydraulic Oil, and Coolant | \checkmark | |
| High Ambient Temperature Oil Factory Fill | | \checkmark |
| Additional External Rear View Mirror | | \checkmark |
| Upgraded LED Light Package | | \checkmark |
| Amber Rotating Beacon | | \checkmark |
| Lug Tread Tires | | \checkmark |
| XT Weight Kit | | \checkmark |

Cat® CS11 GC Smooth Drum Vibratory Soil Compactors



amplitude when approaching compaction, 4-8 passes

Size: Less than 50 mm (2 in) diameter

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

Technical Specifications

| Engine - Powertrain | | | | |
|-----------------------------------|---|---|-----------------------|--|
| Engine Model | | Cat [®] C4.4 | | |
| Emissions | Brazil MAR-1, equiva and EU Stage IIIA | Brazil MAR-1, equivalent to U.S. EPA Tier 3 and EU Stage IIIA | | |
| Engine Power ISO | 4396:2002 | 83.0 kW | 111.3 hp | |
| Gross Power SAE | J1995:2014 | 83.8 kW | 112.4 hp | |
| Net Power ISO 924 | 9:2007* | 79.4 kW | 106.5 hp | |
| Net Power SAE J1 | 349:2011* | 78.5 kW | 105.3 hp | |
| Displacement | | 4.4 L | 268.5 in ³ | |
| Stroke | | 127 mm | 5.0 in | |
| Bore | | 105 mm | 4.1 in | |
| Max. Travel Speed | (Forward or Reverse) | 11.0 km/h | 6.8 mph | |
| Theoretical Gradea vibration** | ability, with or without | 55% | | |

| 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 | 33.0 Hz | 1980 vpm | |
| Frequency at Eco-Mode | 31.5 Hz | 1890 vpm | |
| Centrifugal Force | | | |
| Maximum | 250 kN | 26,200 lb | |
| Minimum | 149 kN | 33,500 lb | |
| Static Linear Load | | | |
| w/ Sun Canopy | 28.4 kg/cm | 159.0 lbs/in | |
| w/ ROPS/FOPS Canopy | 28.7 kg/cm | 160.8 lbs/in | |
| w/ ROPS/FOPS Cab | 28.9 kg/cm | 161.9 lbs/in | |
| French Classification, data/class w/ ROPS/FOPS Cab | 40.9 | VM3 | |

- * 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, flotation tires, padfoot drum, and cab with A/C.

| Service Refill Capacities | | |
|--------------------------------------|--------|----------|
| Fuel Tank, total capacity | 248 L | 65.6 gal |
| Cooling System | 18.5 L | 4.9 gal |
| Engine Oil w/ 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 (service refill) | 23 L | 6.1 gal |

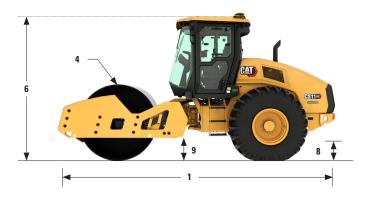
| Weights Operating Weight w/ Sun Canopy 10 904 kg 24,038 lb w/ XT Weight Kit 12 321 kg 27,163 lb w/ Oval Padfoot Shell Kit 12 585 kg 27,745 lb w/ Square Padfoot Shell Kit 12 744 kg 28,096 lb w/ Padfoot Bumper, no shell 11 068 kg 24,400 lb Operating Weight w/ ROPS/FOPS Canopy 11 081 kg 24,430 lb w/ XT Weight Kit 12 499 kg 27,555 lb w/ Oval Padfoot Shell Kit 12 763 kg 28,137 lb w/ Square Padfoot Shell Kit 12 763 kg 28,137 lb w/ Square Padfoot Shell Kit 12 763 kg 24,792 lb Operating Weight w/ ROPS/FOPS Cab 11 235 kg 24,769 lb w/ Yadfoot Bumper, no shell 11 246 kg 24,792 lb Operating Weight Kit 12 653 kg 27,884 lb w/ Oval Padfoot Shell Kit 12 917 kg 28,476 lb w/ Square Padfoot Shell Kit 13 076 kg 28,227 lb W/ Padfoot Bumper, no shell 11 400 kg 25,132 lb Weight at Drum w/ Sun Canopy 6058 kg 16,354 lb | | | |
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| w/ XT Weight Kit7715 kg17,009 lbw/ Oval Padfoot Shell Kit7755 kg17,097 lbw/ Square Padfoot Shell Kit7914 kg17,447 lbw/ Padfoot Bumper, no shell6238 kg13,752 lbWeight at Drum w/ ROPS/FOPS Cab6170 kg13,602 lbw/ XT Weight Kit7758 kg17,104 lbw/ Oval Padfoot Shell Kit7798 kg17,191 lb | w/ Padfoot Bumper, no shell | 6169 kg | 13,599 lb |
| w/ Oval Padfoot Shell Kit 7755 kg 17,097 lb w/ Square Padfoot Shell Kit 7914 kg 17,447 lb w/ Padfoot Bumper, no shell 6238 kg 13,752 lb Weight at Drum w/ ROPS/FOPS Cab 6170 kg 13,602 lb w/ XT Weight Kit 7758 kg 17,104 lb w/ Oval Padfoot Shell Kit 7798 kg 17,191 lb | Weight at Drum w/ ROPS/FOPS Canopy | 6127 kg | 13,507 lb |
| w/ Square Padfoot Shell Kit7914 kg17,447 lbw/ Padfoot Bumper, no shell6238 kg13,752 lbWeight at Drum w/ ROPS/FOPS Cab6170 kg13,602 lbw/ XT Weight Kit7758 kg17,104 lbw/ Oval Padfoot Shell Kit7798 kg17,191 lb | w/ XT Weight Kit | 7715 kg | 17,009 lb |
| w/ Padfoot Bumper, no shell 6238 kg 13,752 lb Weight at Drum w/ ROPS/FOPS Cab 6170 kg 13,602 lb w/ XT Weight Kit 7758 kg 17,104 lb w/ Oval Padfoot Shell Kit 7798 kg 17,191 lb | w/ Oval Padfoot Shell Kit | 7755 kg | 17,097 lb |
| Weight at Drum w/ ROPS/FOPS Cab 6170 kg 13,602 lb w/ XT Weight Kit 7758 kg 17,104 lb w/ Oval Padfoot Shell Kit 7798 kg 17,191 lb | w/ Square Padfoot Shell Kit | 7914 kg | 17,447 lb |
| w/ XT Weight Kit 7758 kg 17,104 lb w/ Oval Padfoot Shell Kit 7798 kg 17,191 lb | w/ Padfoot Bumper, no shell | 6238 kg | 13,752 lb |
| w/ Oval Padfoot Shell Kit 7798 kg 17,191 lb | Weight at Drum w/ ROPS/FOPS Cab | 6170 kg | 13,602 lb |
| | w/ XT Weight Kit | 7758 kg | 17,104 lb |
| | w/ Oval Padfoot Shell Kit | 7798 kg | 17,191 lb |
| | w/ Square Padfoot Shell Kit | 7957 kg | 17,541 lb |
| w/ Padfoot Bumper, no shell 6281 kg 13,847 lb | w/ Padfoot Bumper, no shell | 6281 kg | 13,847 lb |

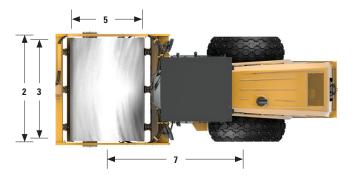
The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 2.2 kg of refrigerant, which has a CO^2 equivalent of 3.146 metric tonnes.

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 | 1535 mm | 60.4 in |
| 6 | Overall Height | 3.0 m | 9.8 ft |
| | w/ Padfoot Shell Kit option | 3.0 m | 9.8 ft |
| 7 | Wheelhouse | 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 | 3.9 m | 12.7 ft |
| | Hitch Articulation Angle | 34° | |
| | Hitch Oscillation Angle | 15 | o |

| Optional Padfoot Shell Kit Specifications | | |
|---|-----------------------|----------------------|
| Number of Pads | 120 | |
| Pad Height, oval pads | 89.8 mm | 3.5 in |
| Pad Face Area, oval pads | 63.5 cm ² | 9.8 in ² |
| Pad Height, square pads | 89.8 mm | 3.5 in |
| Pad Face Area, square pads | 105.7 cm ² | 16.4 in ² |
| Number of Chevrons | 16 | |





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QEHQ2428-03 (10-2022) Build Number: 01A LRC

