



CS11 GC

Vibratory Soil Compactor

Technical Specifications

Configurations and features may vary by region. Please consult your Cat® dealer for availability in your area.

TABLE OF CONTENTS

Specifications

| | |
|--|----------|
| Engine | 2 |
| Service Refill Capacities | 2 |
| Standards | 2 |
| Dimensions | 3 |
| Padfoot Specifications | 3 |
| Drive | 4 |
| Vibration System | 4 |
| Operation Specifications | 5 |
| Standard and Optional Equipment | 6 |



CS11 GC Vibratory Soil Compactor Specifications

ENGINE

| Engine Model | Cat® C3.6 | |
|-------------------------|-----------|-----------------------|
| Gross Power - ISO 14396 | 90 kW | 120.7 hp |
| Gross Power - SAE J1995 | 91.7 kW | 123 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 ³ |
| Stroke | 120 mm | 4.7 in |
| Bore | 98 mm | 3.9 in |

- Cat C3.6 engine meets US EPA Tier 4 Final / EU Stage V emission standards.
- The power ratings apply at an engine speed of 2,000 rpm when tested under the conditions for the specified standard in effect at the time of manufacture. The stated speed is when tested under the reference conditions for the specified standards.
- 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 with engine speed at 2,000 rpm.
- The gross power advertised is with the fan at maximum speed.

SERVICE REFILL CAPACITIES

| | | |
|--|--------|----------|
| Fuel Tank (total capacity) | 213 L | 56.3 gal |
| Diesel Exhaust Fluid (DEF) 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 |

SOUND PERFORMANCE (declared)

| | |
|----------------------------|-----------|
| ISO 6393:2008 (external) | 107 dB(A) |
| ISO 6394:2008 (inside cab) | 81 dB(A) |

SOUND PERFORMANCE (tested)

- The declared static operator sound pressure level is measured according to the static test procedures and conditions that are specified in ISO 6394 (interior) and ISO 6393 (exterior). The sound level may vary at different engine and/or cooling fan speeds. The measurement was conducted with the cab doors and the cab windows closed. The cab was properly installed and maintained.
- 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.

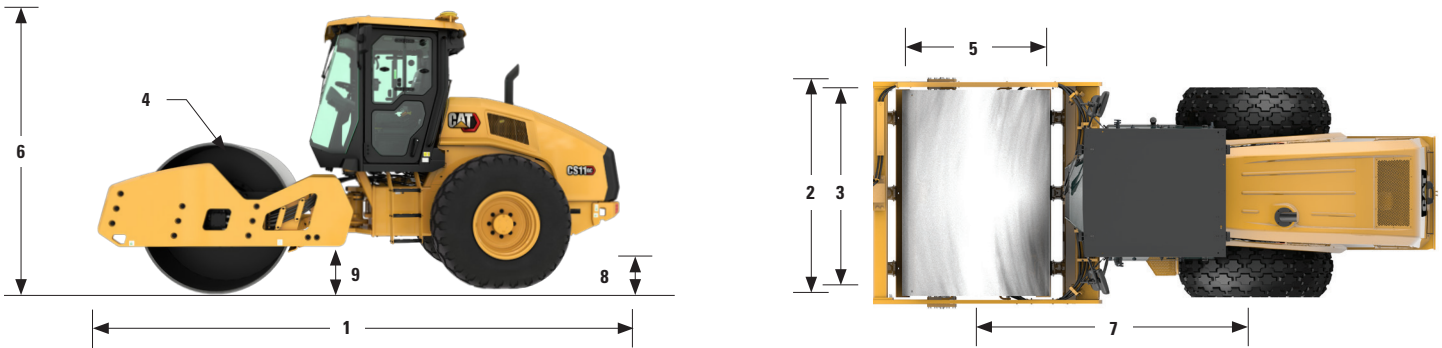
STANDARDS

| | |
|----------|---|
| Brakes | Brakes meet ISO 3450:2011 standards |
| Cab/ROPS | ROPS/FOPS meet ISO 3471:2008 and ISO 3449:2005 Level II standards |

CS11 GC Vibratory Soil Compactor Specifications

DIMENSIONS

All dimensions are approximate



| | | |
|-----------------------------|---------|----------|
| 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 | | |
| Smooth Drum | 3.0 m | 9.8 ft |
| Optional Shell kit equipped | 3.0 m | 9.8 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° |

PADFOOT SPECIFICATION

| | | |
|----------------------------|-----------------------|----------------------|
| 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 | 105.6 cm ² | 16.4 in ² |
| Number of Chevrons | | 16 |

CS11 GC Vibratory Soil Compactor Specifications

DRIVE

| | | |
|---|----------|------------|
| Max. Travel Speed | | |
| High Idle | 11 km/h | 6.84 mph |
| Eco-mode | 9.4 km/h | 5.84 mph |
| Max. Working Speed | | |
| High Idle | 5.6 km/h | 3.5 mph |
| Eco-mode | 5.0 km/h | 3.1 mph |
| Rimpull | 57 kN | 12,814 lbf |
| Theoretical Gradeability, with or without vibration | 55% | |

- Maximum Travel speeds is measure with smooth drum and Diamond tire configured.
- Actual gradeability may vary based on site conditions and machine configuration. Refer to the Operation and Maintenance Manual for more information.

VIBRATION SYSTEM

| | | |
|--------------------------|---------|------------|
| Nominal Amplitude - High | 2.0 mm | 0.079 in |
| Standard Frequency | 30 Hz | 1800 vpm |
| Eco-mode Frequency | 28.6 Hz | 1716 vpm |
| Nominal Amplitude - Low | 1.0 mm | 0.039 in |
| Frequency | 33 Hz | 1980 vpm |
| Eco-mode Frequency | 31.5 Hz | 1890 vpm |
| Centrifugal Force | | |
| Maximum | 250 kN | 56 202 lbf |
| Minimum | 149 kN | 33 497 lbf |
| w/ Oval Padfoot | | |
| Nominal Amplitude - High | 1.41 mm | 0.06 in |
| Standard Frequency | 30 Hz | 1800 vpm |
| Eco-mode Frequency | 28.6 Hz | 1716 vpm |
| Nominal Amplitude - Low | 0.67 mm | 0.03 in |
| Frequency | 33 Hz | 1980 vpm |
| Eco-mode Frequency | 31.5 Hz | 1890 vpm |
| w/ Square Padfoot | | |
| Nominal Amplitude - High | 1.37 mm | 0.05 in |
| Standard Frequency | 30 Hz | 1800 vpm |
| Eco-mode Frequency | 28.6 Hz | 1716 vpm |
| Nominal Amplitude - Low | 0.65 mm | 0.03 in |
| Frequency | 33 Hz | 1980 vpm |
| Eco-mode Frequency | 31.5 Hz | 1890 vpm |

CS11 GC Vibratory Soil Compactor Specifications

| OPERATION SPECIFICATION | ROPS/FOPS Canopy | | ROPS/FOPS Cab | |
|--|------------------|------------------|------------------|------------------|
| Operating Weight - Standard | 11 084 kg | 24,435 lb | 11 238 kg | 24,775 lb |
| At Drum | 6102 kg | 13,453 lb | 6146 kg | 13,549 lb |
| Static Linear Load | 28.6 kg/cm | 160.1 lb/in | 28.8 kg/cm | 161.3 lb/in |
| French Classification, data/class | | | | |
| High Amplitude | 40.4 | VM3 | 40.7 | VM3 |
| Low Amplitude | 28.6 | VM2 | 28.8 | VM2 |
| w/ XT Bumper Weight | 12 097 kg | 26,669 lb | 12 251 kg | 27,009 lb |
| At Drum | 7443 kg | 16,409 lb | 7486 kg | 16,504 lb |
| Static Linear Load | 34.9 kg/cm | 195.3 lb/in | 35.1 kg/cm | 196.6 lb/in |
| French Classification, data/class | | | | |
| High Amplitude | 49.4 | VM3 | 49.6 | VM3 |
| Low Amplitude | 34.9 | VM2 | 35.1 | VM2 |
| w/ Bolt-on Yoke Weight | 11 488 kg | 25,327 lb | 11 642 kg | 25,666 lb |
| At Drum | 6351 kg | 14,002 lb | 6394 kg | 14,096 lb |
| Static Linear Load | 29.8 kg/cm | 166.7 lb/in | 30.0 kg/cm | 168.0 lb/in |
| French Classification, data/class | | | | |
| High Amplitude | 42.1 | VM3 | 42.4 | VM3 |
| Low Amplitude | 29.8 | VM2 | 30.0 | VM2 |
| w/ Bumper and Bolt-on Yoke Weight | 12 501 kg | 27,560 lb | 12 655 kg | 27,900 lb |
| At Drum | 7691 kg | 16,955 lb | 7734 kg | 17,051 lb |
| Static Linear Load | 36.0 kg/cm | 201.8 lb/in | 36.2 kg/cm | 202.9 lb/in |
| French Classification, data/class | | | | |
| High Amplitude | 51.0 | VM3 | 51.3 | VM3 |
| Low Amplitude | 36.0 | VM2 | 36.2 | VM2 |
| w/ Oval Shell Kit | 12 765 kg | 28,142 lb | 12 919 kg | 28,482 lb |
| At Drum | 7730 kg | 17,042 lb | 7774 kg | 17,138 lb |
| French Classification, data/class | | | | |
| High Amplitude | 43.0 | VM3 | 43.3 | VM3 |
| Low Amplitude | 29.7 | VM2 | 29.8 | VM2 |
| w/ Square Shell Kit | 12 924 kg | 28,493 lb | 13 078 kg | 28,832 lb |
| At Drum | 7889 kg | 17,393 lb | 7933 kg | 17,488 lb |
| French Classification, data/class | | | | |
| High Amplitude | 43.3 | VM3 | 43.5 | VM3 |
| Low Amplitude | 29.8 | VM2 | 30.0 | VM2 |
| w/ Padfoot Bumper, No Shell | 11 248 kg | 24,797 lb | 11 402 kg | 25,137 lb |
| At Drum | 6213 kg | 13,698 lb | 6257 kg | 13,794 lb |
| Static Linear Load | 29.1 kg/cm | 163.0 lb/in | 29.3 kg/cm | 164.2 lb/in |
| French Classification, data/class | | | | |
| High Amplitude | 41.2 | VM3 | 41.5 | VM3 |
| Low Amplitude | 29.1 | VM2 | 29.3 | VM2 |

- All operating weights and Static Linear Load shown are based on standard configurations with full level fluids, 75 kg operator, smooth/shell kit drum w/ diamond tires, padded drum w/bar tread tires and cab w/ heat & A/C.
- 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 CO2 equivalent of 3.146 metric tonnes.

CS11 GC Vibratory Soil Compactor Specifications

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 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) | | ✓ | ELECTRICAL | | |
| Sun/Debris Shields (Canopy) | | ✓ | 12 volt Electrical System | ✓ | |
| Cab Internal Roll-down Sun Screen (Cab) | | ✓ | 150 ampere Alternator | ✓ | |
| Rear View Camera with Color Touchscreen Display | | ✓ | 900 Cold-cranking Amps Battery Capacity | ✓ | |
| Sound Reduction Kit | | ✓ | OTHER | | |
| VIBRATORY SYSTEM | | | Product Link™ | ✓ | |
| Smooth Drum | ✓ | | Sight Gauges for Hydraulic Oil Level and Radiator Coolant Level | ✓ | |
| Dual Amplitude, Dual Frequency | ✓ | | S.O.S SM Sampling Valves: Engine Oil, Hydraulic Oil and Coolant | ✓ | |
| Pod-Style Eccentric Weight Housings | ✓ | | High Ambient Temperature Oil Factory Fill | | ✓ |
| Auto-vibe Function | ✓ | | Additional Rear View Mirror | | ✓ |
| Rear Adjustable Steel Scraper | ✓ | | Printer Port | | ✓ |
| Padfoot Shell Kit (oval or square pads available) | | ✓ | Seat Belt Switch | | ✓ |
| Dual Adjustable Steel Scrapers | | ✓ | Upgraded LED Light Package | | ✓ |
| Dual Adjustable Polyurethane Scrapers | | ✓ | Amber Rotating Beacon | | ✓ |
| TECHNOLOGY SOLUTIONS | | | Flotation Tread or Lug Tread Tires | | ✓ |
| Measure - Machine Drive Power and/or CMV | | ✓ | XT Weight Kit | | ✓ |
| Map - SBAS GNSS Mapping | | ✓ | | | |
| Connect - Cloud and Machine Connectivity | | ✓ | | | |

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

QEXQ2866 (07-2021)

© 2021 Caterpillar All rights reserved

Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

CAT, CATERPILLAR, LET'S DO THE WORK, their respective logos, "Caterpillar Corporate Yellow," the "Power Edge" and Cat "Modern Hex" trade dress as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

