



# Cat<sup>®</sup> CS68B

## Smooth Drum Vibratory Soil Compactor

The Cat<sup>®</sup> CS68B features a smooth drum and is ideally suited for granular soil applications or cohesive soil applications with the use of an optional padfoot shell kit.

### 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.

### 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

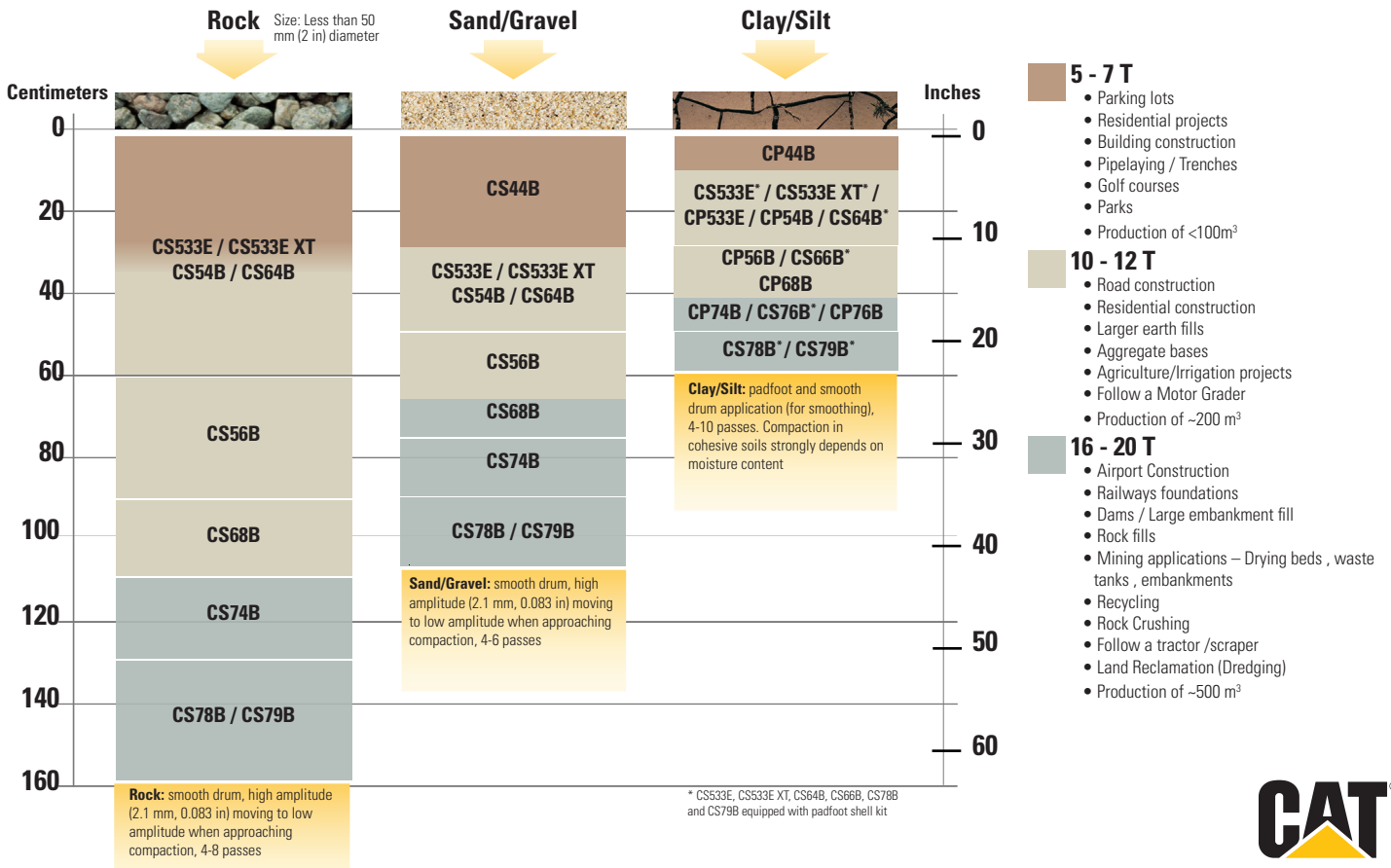
- More weight at the drum and greater amplitude.
- Automated speed control and vibratory system functions make it easy to ensure consistent, high quality compaction.

### Cat Compaction Control

- Helps operator determine when compaction has been completed to specification for greater productivity and uniform compaction quality.
- Accelerometer-based (CMV) and exclusive Machine Drive Power (MDP) measurement technologies available.

## VIBRATORY SOIL COMPACTOR SELECTION GUIDE

Assumes density specification is 95% of Standard Proctor and can vary substantially due to different soil conditions.



# Cat® CS68B Vibratory Soil Compactor

## Technical Specifications

### Engine - Power Train

Engine Model	Cat C7.1	
Global Emissions	US EPA Tier 3 EU Stage IIIA	
Gross Power ISO 14396	116.1 kW	155.7 hp
Displacement	7.01 L	428 in <sup>3</sup>
Stroke	135 mm	5.31 in
Bore	105 mm	4.1 in
Max. Travel Speed (Forward or Reverse)	11.4 km/h	7 mph
Theoretical Gradeability, no vibration*	57%	

### Weights

Operating Weight w/ open platform	13 800 kg	30,424 lb
Operating Weight w/ steel sun canopy	13 895 kg	30,633 lb
Operating Weight w/ ROPS/FOPS canopy	14 070 kg	31,019 lb
Operating Weight w/ ROPS/FOPS cab	14 390 kg	31,725 lb
Weight at Drum w/ open platform	8935 kg	19,698 lb
Weight at Drum w/ steel sun canopy	8965 kg	19,764 lb
Weight at Drum w/ ROPS/FOPS canopy	9020 kg	19,886 lb
Weight at Drum w/ ROPS/FOPS cab	9150 kg	20,172 lb

#### Additional Weight with:

Oval Padfoot Shell Kit	+ 1730 kg	+ 3,814 lb
Square Padfoot Shell Kit	+ 1880 kg	+ 4,145 lb
Leveling Blade	+ 620 kg	+ 1,373 lb

### Vibratory System Specifications

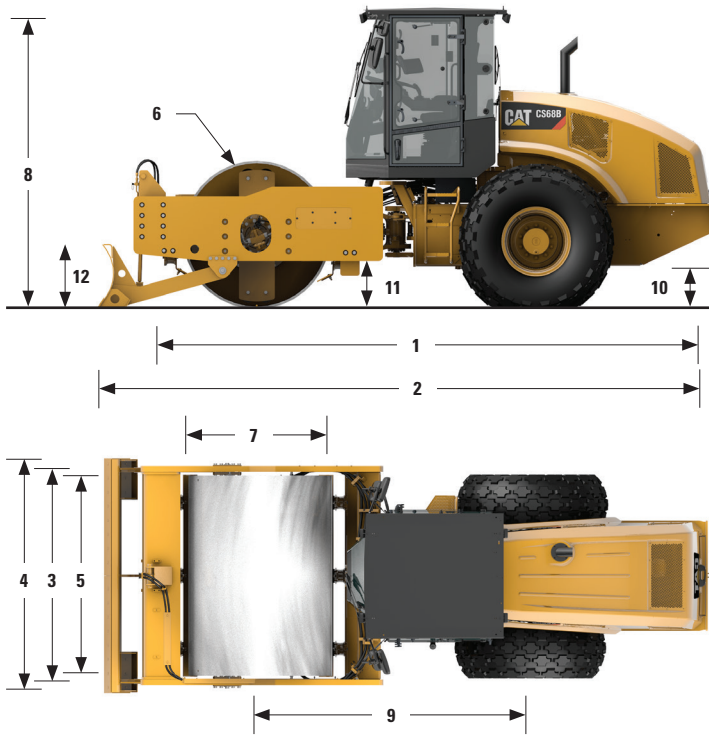
Frequency		
Standard	30.5 Hz	1830 vpm
During Eco-mode Operation	27.7 Hz	1664 vpm
Optional Variable Frequency	23.3-30.5 Hz	1400-1830 vpm
Nominal Amplitude @ 30.5 Hz (1830 vpm)		
High	2.1 mm	0.083 in
Low	0.98 mm	0.039 in
Centrifugal Force @ 30.5 Hz (1830 vpm)		
Maximum	301 kN	67,600 lb
Minimum	141 kN	31,670 lb
Static Linear Load		
w/ open platform	41.9 kg/cm	234.5 lbs/in
w/ steel sun canopy	42 kg/cm	235.3 lbs/in
w/ ROPS/FOPS canopy	42.3 kg/cm	236.7 lbs/in
w/ ROPS/FOPS cab	42.9 kg/cm	240.1 lbs/in

### Service Refill Capacities

Fuel Tank, total capacity	242 L	64 gal
Cooling System	27.9 L	7.4 gal
Engine Oil w/ Filter	17.4 L	4.6 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

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

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## Dimensions

1	Overall Length	6.05 m	19.8 ft
2	Overall Length w/ Optional Leveling Blade	6.55 m	21.5 ft
3	Overall Width	2.33 m	7.64 ft
4	Overall Width w/ Optional Leveling Blade	2.50 m	8.25 ft
5	Drum Width	2134 mm	84 in
6	Drum Shell Thickness	30 mm	1.18 in
7	Drum Diameter	1534 mm	60.4 in
8	Maximum Overall Height	3.11 m	10.2 ft
9	Wheelbase	2.9 m	9.5 ft
10	Ground Clearance	437 mm	17.2 in
11	Curb Clearance	489 mm	19.3 in
12	Optional Leveling Blade Height	688 mm	27.1 in
	Inside Turning Radius	3.68 m	12.07 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	123 cm <sup>2</sup>	19.1 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
<b>OPERATOR ENVIRONMENT</b>		
Open Platform with Handrails/Guardrails, Floor Mat	✓	
Vinyl Adjustable Pivoting Seat with Integrated Console and LCD Display	✓	
Adjustable Tilting Steering Column with Integrated Cup Holders	✓	
Seat Belt	✓	
12-volt Power Outlet	✓	
Horn, Backup Alarm	✓	
Steel Sun Canopy		✓
ROPS/FOPS Canopy		✓
ROPS/FOPS Cab with Climate Control		✓
Internal Rear View Mirror		✓
External Rear View Mirrors		✓
Sun Visor		✓
Cab Internal Roll-down Sun Screen		✓
<b>VIBRATORY SYSTEM</b>		
Smooth Drum	✓	
Dual Amplitude, Single Frequency	✓	
Dual Pod-Style Eccentric Weight Housings	✓	
Auto-vibe Function	✓	
Front Adjustable Steel Scraper	✓	
Padfoot Shell Kit (oval or square pads available)		✓
Leveling Blade		✓
Variable Frequency		✓
Dual Adjustable Steel Scrapers		✓
Dual Adjustable Polyurethane Scrapers		✓

	Standard	Optional
<b>POWER TRAIN</b>		
Cat C7.1 Diesel Engine	✓	
Air Cleaner, Dual Element	✓	
Three-Speed Throttle Switch, Eco-mode and Automatic Speed Control	✓	
Dual Propel Pumps; One for Drum Drive, One for Rear Axle	✓	
Fuel Filter, Water Separator, Priming Pump, Water Indicator	✓	
Tilting Radiator/Hydraulic Oil Cooler	✓	
Dual Braking System	✓	
Two-speed Hydrostatic Transmission	✓	
Transmission Guard		✓
<b>CAT COMPACTION CONTROL TECHNOLOGY</b>		
Measure - Machine Drive Power and/or CMV		✓
Map - SBAS GNSS Mapping		✓
Connect - Machine to Machine Communication		✓
<b>ELECTRICAL</b>		
24 volt Electrical System	✓	
100 ampere Alternator	✓	
750 Cold-cranking Amps Battery Capacity	✓	
<b>OTHER</b>		
Product Link™	✓	
Sight Gauges for Hydraulic Oil Level and Radiator Coolant Level	✓	
S-O-S <sup>SM</sup> Sampling Valves: Engine Oil, Hydraulic Oil and Coolant	✓	
Upgraded Halogen Light Package		✓
Rotating Beacon		✓
Fuel Fill Access Door		✓
Containerized Shipping		✓

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