

Cat® CS66B

Smooth Drum Vibratory Soil Compactor

The Cat® CS66B 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.

Rear Vision Camera

· The rear vision camera enhances visibility for more complete operator control and safety.

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

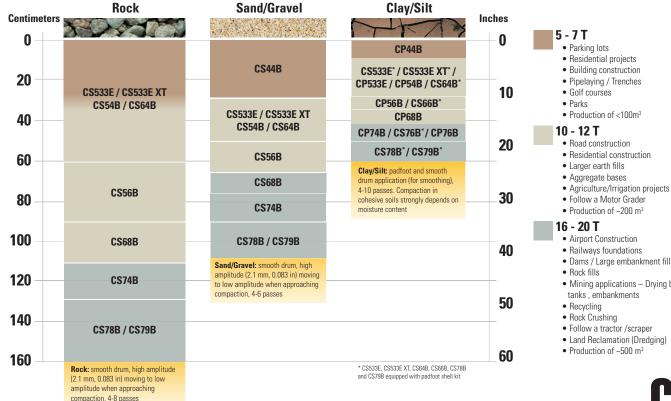
- · More weight at the drum and greater amplitutude.
- Automated speed control and vibratory system functions make it easy to ensure consistent, high quality compaction.

Technologies that Enhance Quality and Productivity

- Exclusive semi-autonomous Command for Compaction technology automates compaction to offer complete process control and help promote more uniform results.
- Measurement and documentation technologies help the 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.





· Rock Crushing · Follow a tractor /scraper

· Land Reclamation (Dredging)

Production of ~500 m³



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Technical Specifications

Engine - Power Train			
Engine Model	Cat C4.4		
Global Emissions	US EPA Tier 4 Final EU Stage IV		
Gross Power ISO 14396	117.0 kW	156.9 hp	
Gross Power SAE J1995	118.6 kW	159.0 hp	
Net Power ISO 9249*	97.4 kW	130.6 hp	
Net Power SAE J1349*	96.9 kW	129.9 hp	
Displacement	4.4 L	268.5 in ³	
Stroke	127 mm	5 in	
Bore	105 mm	4.1 in	
Max. Travel Speed (Forward or Reverse)	11.4 km/h	7 mph	

Weights		
Operating Weight w/ ROPS/FOPS cab	12 360 kg	27,245 lb
w/ Padfoot Shell Kit	13 770 kg	30,351 lb
w/ Leveling Blade	12 985 kg	28,618 lb
w/ Padfoot Shell Kit and Leveling Blade	14 395 kg	31,724 lb
Weight at Drum w/ ROPS/FOPS cab	7355 kg	16,214 lb
w/ Padfoot Shell Kit	8765 kg	19,315 lb
w/ Leveling Blade	8245 kg	18,176 lb
w/ Padfoot Shell Kit and Leveling Blade	9655 kg	21,277 lb

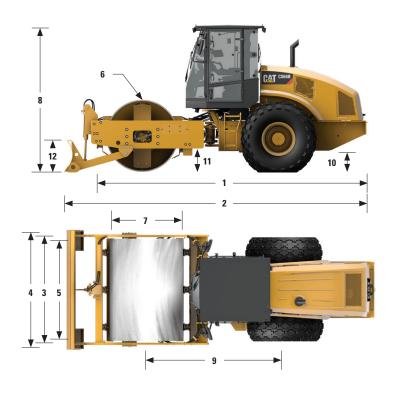
^{*} Net power advertised is the power available at the engine flywheel when equipped with a fan at maximum speed, air cleaner, clean emissions module, and alternator.

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/ ROPS/FOPS cab	34.5 kg/cm	193 lbs/in	

Service Refill Capacities			
Fuel Tank, total capacity	242 L	64 gal	
Diesel Exhaust Fluid refill capacity	19 L	5 gal	
Cooling System	27.8 L	7.3 gal	
Engine Oil w/ Filter	11.6 L	3.1 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	

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.8 kg of refrigerant which has a ${\rm CO_2}$ equivalent 1.144 metric tonne.

$\textbf{Cat}^{\circ}~\textbf{CS66B}~\textbf{Smooth}~\textbf{Drum}~\textbf{Vibratory}~\textbf{Soil}~\textbf{Compactor}$



	Dimensions		
1	Overall Length	5.86 m	19.2 ft
2	Overall Length w/ optional Leveling Blade	6.4 m	20.9 ft
3	Overall Width	2.30 m	7.53 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	Overall Height	3.11 m	10.2 ft
9	Wheelbase	2.9 m	9.5 ft
10	Ground Clearance	442 mm	17.4 in
11	Curb Clearance	494 mm	19.3 in
12	Optional Leveling Blad 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	$63.5~\mathrm{cm^2}$	9.8 in ²	
Pad Height, optional square pads	90 mm	3.5 in	
Pad Face Area, optional square pads	123 cm ²	19.1 in²	
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
OPERATOR ENVIRONMENT		
ROPS/FOPS Cab with Climate Control, External Rear View Mirrors	√	
Cloth Adjustable Pivoting Seat with Integrated Console and LCD Display	✓	
Adjustable Tilting Steering Column with Integrated Cup Holders	√	
Rear Vision Camera with Color Touchscreen Display	√	
Seat Belt	✓	
12-volt Power Outlet	✓	
Horn, Backup Alarm	✓	
Sun Visor		✓
Cab Internal Roll-down Sun Screen		✓
VIBRATORY SYSTEM		
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
POWER TRAIN		
Cat C4.4 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		✓
TECHNOLOGY SOLUTIONS		
Measure - Machine Drive Power and/or CMV		✓
Map - SBAS GNSS Mapping		✓
Connect - Cloud and Machine Connectivity		✓
Command for Compaction		✓
ELECTRICAL		
24 volt Electrical System	✓	
100 ampere Alternator	✓	
750 Cold-cranking Amps Battery Capacity	√	
OTHER		
Product Link™	✓	
Sight Gauges for Hydraulic Oil Level and Radiator Coolant Level	√	
S·O·S SM Sampling Valves: Engine Oil, Hydraulic Oil and Coolant	√	
Recording Module		✓
Factory Filled Bio Hydraulic Oil		✓
Upgraded Halogen Light Package		✓
Amber Rotating Beacon		✓
Fuel Fill Access Door		✓
Italian Road Homologation (IRH)		√

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

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Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment.

