

# 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.



# Cat® CS66B Smooth Drum Vibratory Soil Compactor

## **Technical Specifications**

Engine - Power Train		
Engine Model	Cat® C4.4	
European Emissions	EU Stage V	
Gross Power ISO 14396	117.0 kW	156.9 hp
Gross Power SAE J1995	118.0 kW	158.2 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 <sup>3</sup>
Stroke	127 mm	5 in
Bore	105 mm	4.1 in
Max. Travel Speed (Forward or Reverse)	11.4 km/h	7 mph
Theoretical Gradeability, no vibration**	>65	%

Vibratory System Specifications		
	pecifications	
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	34.2 kg/cm	191.5 lbs/in
VM Class at High Amplitude	V	M5

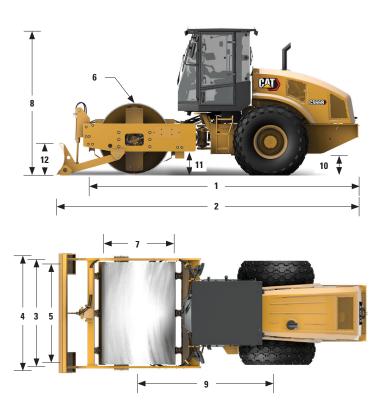
Weights		
Operating Weight w/ ROPS/FOPS cab***	12 791 kg	28,199 lb
w/ Leveling Blade	13 435 kg	29,619 lb
w/ Oval Padfoot Shell Kit	14 669 kg	32,340 lb
w/ Oval Padfoot Shell Kit and Leveling Blade	15 313 kg	33,759 lb
w/ Square Padfoot Shell Kit	14 828 kg	32,690 lb
w/ Square Padfoot Shell Kit and Leveling Blade	15 472 kg	34,110 lb
Weight at Drum w/ ROPS/FOPS cab	7304 kg	16,103 lb
w/ Leveling Blade	8204 kg	18,087 lb
w/ Oval Padfoot Shell Kit	9185 kg	20,250 lb
w/ Oval Padfoot Shell Kit and Leveling Blade	10 085 kg	22,234 lb
w/ Square Padfoot Shell Kit	9344 kg	20,600 lb
w/ Square Padfoot Shell Kit and Leveling Blade	10 244 kg	22,584 lb

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	

- 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, smooth drum, and cab with A/C.

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.

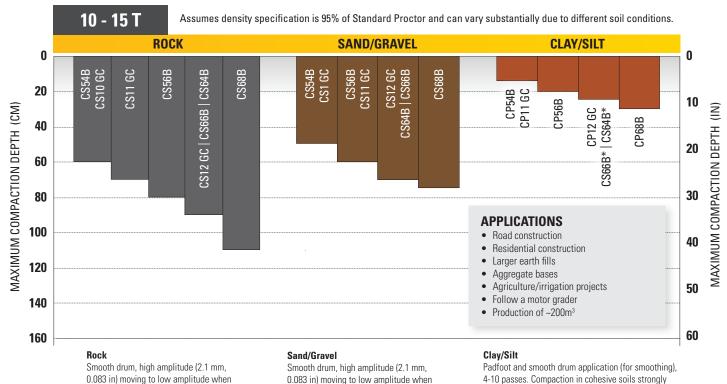
# Cat® CS66B Smooth Drum Vibratory Soil Compactor



	Dimensions		
1	Overall Length	5.9 m	19.5 ft
2	Overall Length w/ optional Leveling Blade	6.4 m	21.0 ft
3	Overall Width	2.3 m	7.7 ft
4	Overall Width w/ optional Leveling Blade	2.5 m	8.2 ft
5	Drum Width	2134 mm	84 in
6	Drum Shell Thickness	30 mm	1.2 in
7	Drum Diameter	1535 mm	60.4 in
8	Overall Height	3.1 m	10.2 ft
9	Wheelbase	2.9 m	9.5 ft
10	Ground Clearance	442 mm	17.4 in
11	Curb Clearance	491 mm	19.3 in
12	Optional Leveling Blade Height	688 mm	27.1 in
	Inside Turning Radius	3.7 m	12.1 ft
	Hitch Articulation Angle	34°	
	Hitch Oscillation Angle	15°	

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 <sup>2</sup>	9.8 in <sup>2</sup>
Pad Height, square pads	89.8 mm	3.5 in
Pad Face Area, square pads	105.7 cm <sup>2</sup>	16.4 in <sup>2</sup>
Number of Chevrons	16	

## **Vibratory Soil Compactor Selection Guide**



approaching compaction, 4-6 passes

approaching compaction, 4-8 passes Size: Less than 50 mm (2 in) diameter

4-10 passes. Compaction in cohesive soils strongly

depends on moisture content.

# Cat® CS66B Smooth Drum Vibratory Soil Compactor

## **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	<b>√</b>	
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	✓	
High Visibility Orange 50 mm (2 in) Seat Belt	✓	
12-volt Power Outlet	✓	
Horn, Backup Alarm	✓	
Internal Rear View Mirror		✓
Sun Visor		✓
Cab Internal Roll-down Sun Screen		✓
High Visibility Orange 76 mm (3 in) Seat Belt		✓
VIBRATORY SYSTEM		
Smooth Drum	✓	
Dual Amplitude, Single Frequency	✓	
Dual Pod-Style Eccentric Weight Housings	$\checkmark$	
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		✓
TECHNOLOGY SOLUTIONS		
Measure - Machine Drive Power and/or CMV		✓
Map - SBAS GNSS Mapping		✓
Connect - Cloud and Machine Connectivity		✓
0		

	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		✓
ELECTRICAL		
24 volt Electrical System	$\checkmark$	
100 ampere Alternator	✓	
750 Cold-cranking Amps Battery Capacity	✓	
OTHER		
Product Link <sup>™</sup>	✓	
Sight Gauges for Hydraulic Oil Level and Radiator Coolant Level	✓	
S·O·S <sup>SM</sup> Sampling Valves: Engine Oil, Hydraulic Oil and Coolant	✓	
Machine tie downs - front and rear (meet ISO 15818)	✓	
Recording Module		✓
Factory Filled Bio Hydraulic Oil		✓
Upgraded Halogen Light Package		✓
Upgraded LED light package		✓
Amber Rotating Beacon		✓
Fuel Fill Access Door		✓
Italian Road Homologation (IRH)		<b>√</b>

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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**Command for Compaction** 

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

