



Cat[®] CS44B

Smooth Drum Vibratory Soil Compactor

The Cat[®] CS44B 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 adjustable 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.

Virtually Maintenance Free

- Maintenance-free hitch bearings.
- Extended maintenance intervals for vibratory system and hydraulic system, providing more uptime and lower maintenance costs.

Powerful Cat C3.4B Engine

- Meets US EPA Tier 4 Final and EU Stage IV emissions standards.

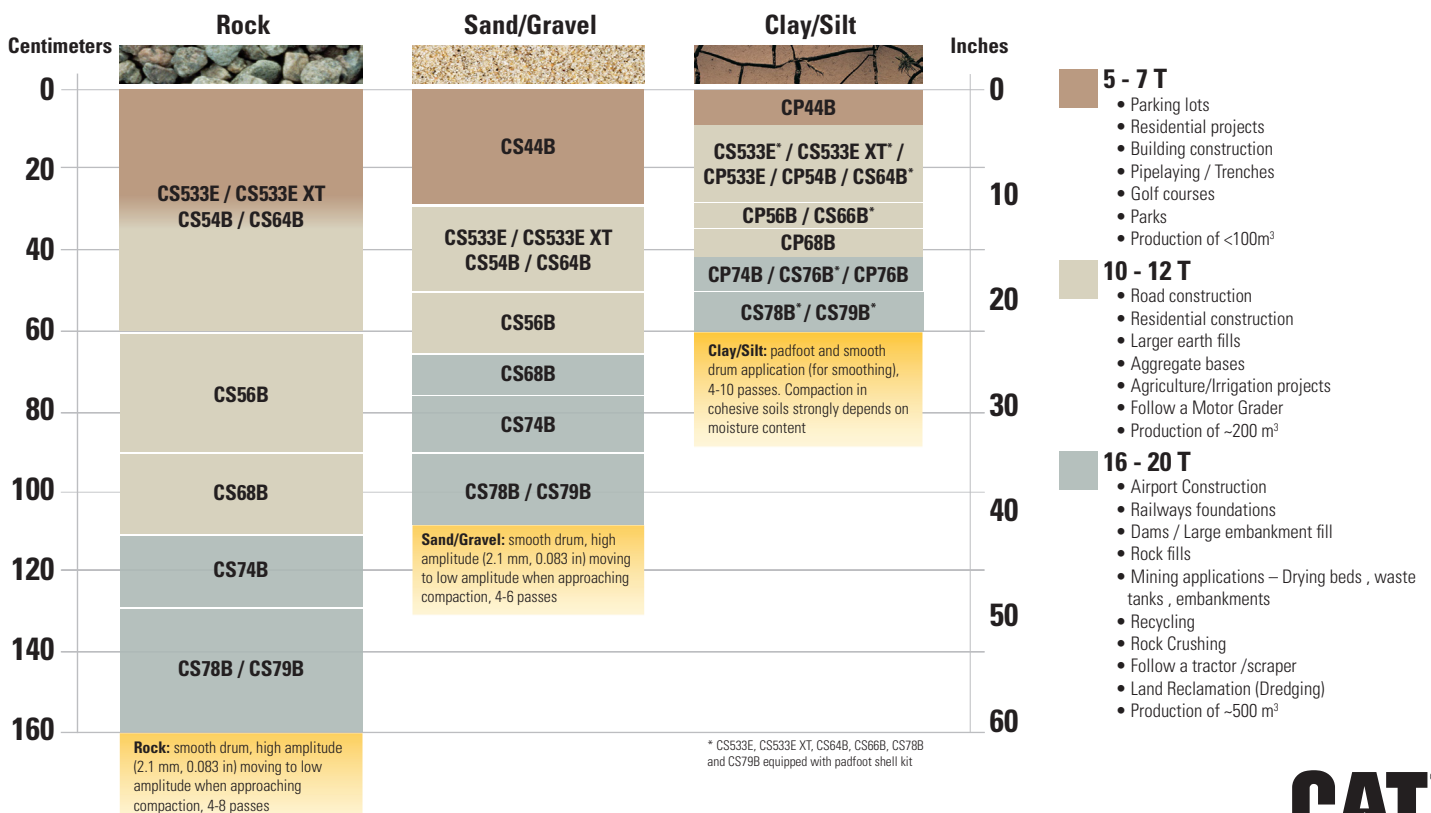
Optional Cat Compaction Control

- Helps operator determine when compaction has been completed to specification for greater productivity and uniform compaction quality.
- Accelerometer-based (CMV) measurement technology available.

Compact, highly maneuverable and transportable

VIBRATORY SOIL COMPACTOR SELECTION GUIDE

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



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Technical Specifications

Engine - Power Train

Engine Model	Cat C3.4B	
Global Emissions	US EPA Tier 4 Final EU Stage IV	
Gross Power ISO 14396	75.0 kW	100.6 hp
Gross Power SAE J1995	75.5 kW	101.2 hp
Net Power ISO 9249*	70.4 kW	94.4 hp
Net Power SAE J1349*	69.7 kW	93.5 hp
Displacement	3.4 L	207 in ³
Stroke	110 mm	3.9 in
Bore	99 mm	3.9 in
Max. Travel Speed (Forward or Reverse)	11.4 km/h	7.0 mph

* 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.

Weights

Operating Weight w/ ROPS/FOPS canopy	6943 kg	15,307 lb
w/ Padfoot Shell Kit	8001 kg	17,639 lb
w/ Padfoot Shell Kit and Leveling Blade	8528 kg	18,801 lb
Operating Weight w/ ROPS/FOPS cab	7210 kg	15,895 lb
w/ Padfoot Shell Kit	8232 kg	18,148 lb
w/ Padfoot Shell Kit and Leveling Blade	8711 kg	19,204 lb
Weight at Drum w/ ROPS/FOPS canopy	3384 kg	7,460 lb
w/ Padfoot Shell Kit	4418 kg	9,740 lb
w/ Padfoot Shell Kit and Leveling Blade	5138 kg	11,327 lb
Weight at Drum w/ ROPS/FOPS cab	3518 kg	7,756 lb
w/ Padfoot Shell Kit	4490 kg	9,899 lb
w/ Padfoot Shell Kit and Leveling Blade	5217 kg	11,502 lb

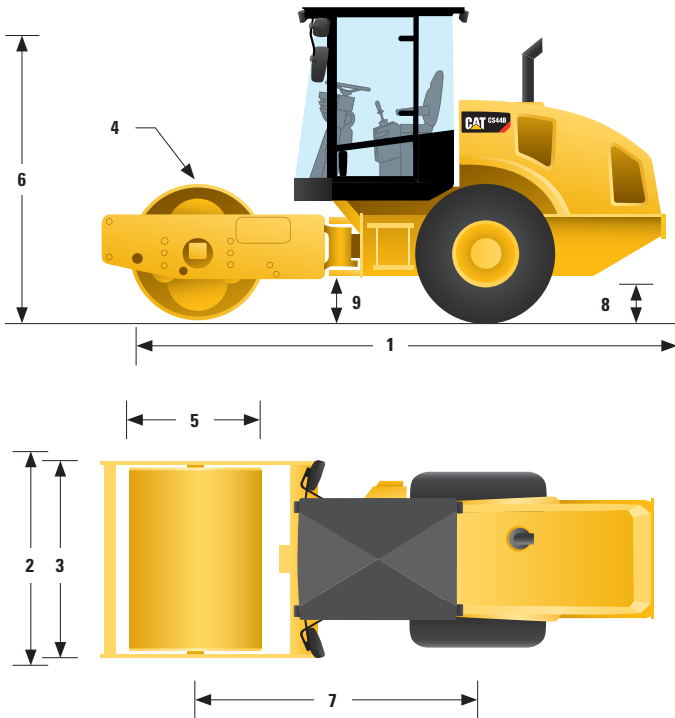
Vibratory System Specifications

Frequency		
Standard	31.9 Hz	1914 vpm
During Eco-mode Operation	29 Hz	1744 vpm
Optional Variable Frequency	23.3 - 31.9 Hz	1400-1914 vpm
Nominal Amplitude @ 31.9 Hz (1914 vpm)		
High	1.67 mm	0.066 in
Low	0.84 mm	0.033 in
Centrifugal Force @ 31.9 Hz (1914 vpm)		
Maximum	133 kN	29,900 lb
Minimum	67 kN	15,000 lb
Static Linear Load		
w/ ROPS/FOPS canopy	20.2 kg/cm	113 lbs/in
w/ ROPS/FOPS cab	21.0 kg/cm	118 lbs/in

Service Refill Capacities

Fuel Tank, total capacity	150 L	40 gal
Diesel Exhaust Fluid refill	18.9 L	5 gal
Cooling System	15.8 L	4.2 gal
Engine Oil w/ Filter	9 L	2.4 gal
Eccentric Weight Housings (Combined)	12 L	3.2 gal
Axle and Final Drives	14.6 L	3.9 gal
Hydraulic Tank (service refill)	26 L	6.9 gal

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Dimensions

1	Overall Length	5.09 m	16.7 ft
	Overall Length w/ optional Leveling Blade	5.62 m	18.44 ft
2	Overall Width	1.8 m	5.91 ft
	Overall Width w/ optional Leveling Blade	2.12 m	6.95 ft
3	Drum Width	1676 mm	66 in
4	Drum Shell Thickness	25 mm	1 in
5	Drum Diameter	1221 mm	48.1 in
6	Overall Height		
	w/ ROPS/FOPS cab	2.85 mm	9.35 ft
	w/ ROPS/FOPS canopy	2.81 mm	9.22 ft
7	Wheelbase	2.6 m	8.5 ft
8	Ground Clearance	411 mm	16.2 in
9	Curb Clearance	369 mm	14.5 in
	Inside Turning Radius	3.05 m	10.0 ft
	Hitch Articulation Angle	37°	
	Hitch Oscillation Angle	15°	

Optional Padfoot Shell Kit Specifications

	Number of Pads	98	
	Pad Height, oval pads	89 mm	3.5 in
	Pad Face Area, oval pads	63.8 cm ²	9.9 in ²
	Pad Height, optional square pads	79.4 mm	3.13 in
	Pad Face Area, optional square pads	95.5 cm ²	14.8 in ²
	Number of Chevrons	14	

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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, Floor Mat, Exterior Rear View Mirrors	✓		Cat C3.4B Engine	✓	
Vinyl Adjustable Seat with Integrated Console and LCD Display with Lockable Vandalism Guard	✓		Air Cleaner, Dual Element	✓	
Adjustable Tilting Steering Column with Integrated Cup Holders	✓		Two-Speed Throttle Switch, and Eco-mode	✓	
Rear Vision Camera System with Color Touchscreen Display	✓		Dual Propel Pumps; One for Drum Drive, One for Rear Axle	✓	
Seat Belt	✓		Fuel Filter, Water Separator, Priming Pump, Water Indicator	✓	
12-volt Power Outlet	✓		Tilting Radiator/Hydraulic Oil Cooler	✓	
Horn, Backup Alarm	✓		Dual Braking System	✓	
ROPS/FOPS Cab with Climate Control, Cloth Seat, Exterior Rear View Mirrors, Sun Visor, Roll-down Sun Screen		✓	Two-speed Hydrostatic Transmission	✓	
VIBRATORY SYSTEM			TECHNOLOGY SOLUTIONS		
Smooth Drum	✓		Measure - Compaction Meter Value (CMV)		✓
Dual Amplitude, Single Frequency	✓		ELECTRICAL		
Pod-Style Eccentric Weight Housings	✓		12 volt Electrical System	✓	
Auto-vibe Function	✓		150 ampere Alternator	✓	
Front Adjustable Steel Scraper	✓		1000 Cold-cranking Amps Battery Capacity	✓	
Padfoot Shell Kit (oval or square pads available)		✓	OTHER		
Leveling Blade		✓	Product Link™	✓	
Variable Frequency		✓	Sight Gauges for Hydraulic Oil Level and Radiator Coolant Level	✓	
Dual Adjustable Steel Scrapers		✓	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		✓

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.9 kg of refrigerant which has a CO2 equivalent 1.287 metric tonne.

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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