



Cat[®] CS56B

Smooth Drum Vibratory Soil Compactor

The Cat[®] CS56B 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

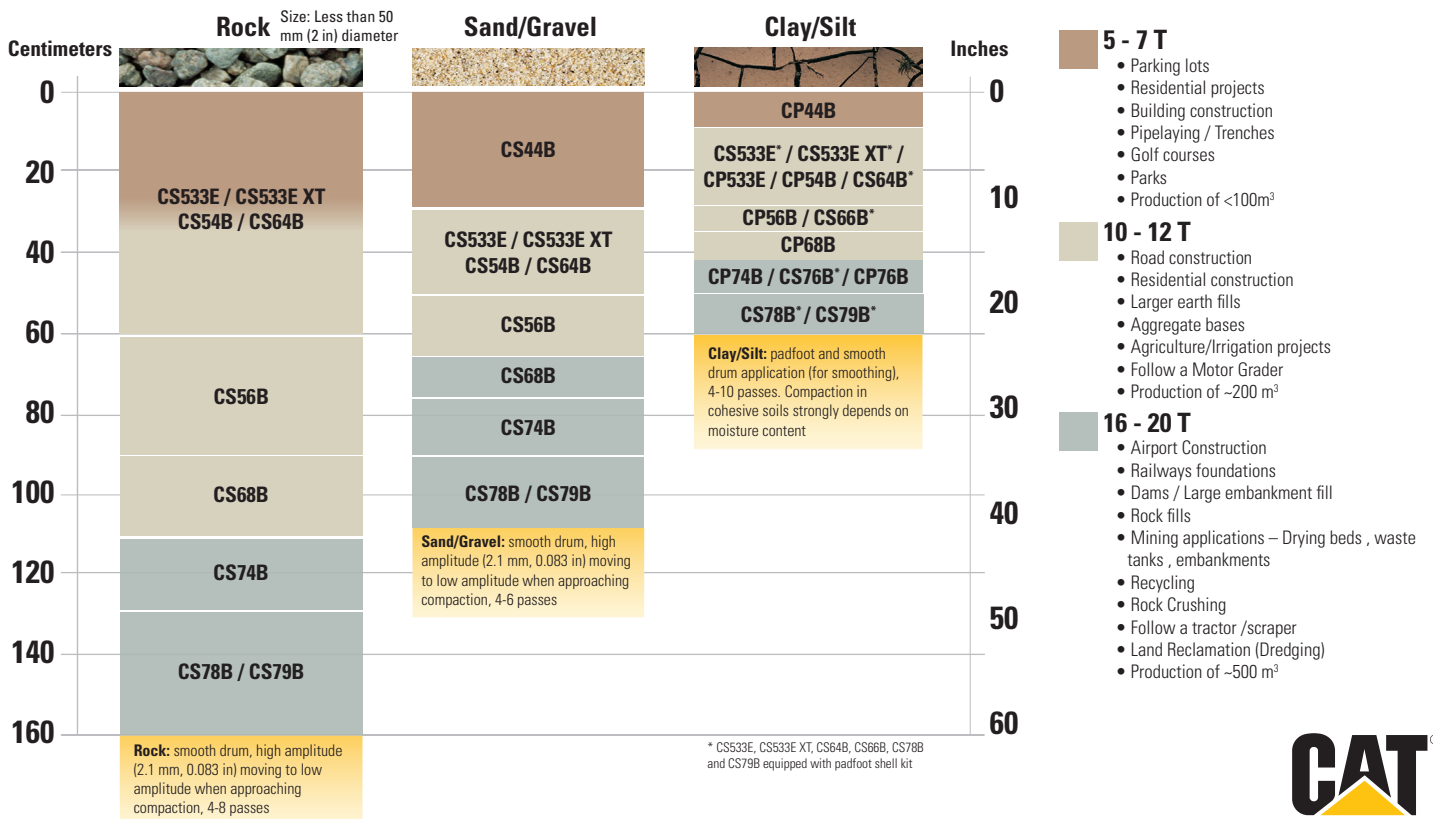
- More weight at the drum and greater amplitude.
- Automated speed control and vibratory system functions make it easy to ensure consistent, high quality compaction.

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.



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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*	98.1 kW	131.6 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 canopy	11 290 kg	24,887 lb
w/ Padfoot Shell Kit	12 700 kg	27,990 lb
w/ Leveling Blade	11 915 kg	26,260 lb
w/ Padfoot Shell Kit and Leveling Blade	13 325 kg	29,363 lb
Operating Weight w/ ROPS/FOPS cab	11 500 kg	25,346 lb
w/ Padfoot Shell Kit	12 900 kg	28,433 lb
w/ Leveling Blade	12 115 kg	26,703 lb
w/ Padfoot Shell Kit and Leveling Blade	13 525 kg	29,806 lb
Weight at Drum w/ ROPS/FOPS canopy	6255 kg	13,788 lb
w/ Padfoot Shell Kit	7660 kg	16,887 lb
w/ Leveling Blade	7145 kg	15,749 lb
w/ Padfoot Shell Kit and Leveling Blade	8550 kg	18,848 lb
Weight at Drum w/ ROPS/FOPS cab	6350 kg	13,990 lb
w/ Padfoot Shell Kit	7755 kg	17,092 lb
w/ Leveling Blade	7240 kg	15,952 lb
w/ Padfoot Shell Kit and Leveling Blade	8645 kg	19,053 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.

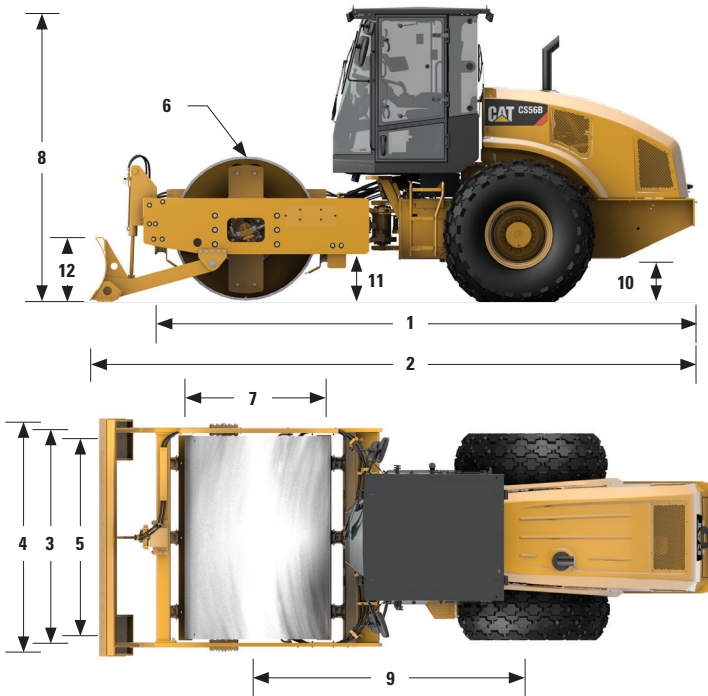
Vibratory System Specifications

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 canopy	29.3 kg/cm	164.1 lbs/in
w/ ROPS/FOPS cab	29.8 kg/cm	166.5 lbs/in

Service Refill Capacities

Fuel Tank, total capacity	242 L	64 gal
Diesel Exhaust Fuel 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

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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	2.5 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 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 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 in ²
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		Standard	Optional
OPERATOR ENVIRONMENT			POWER TRAIN		
ROPS/FOPS Canopy with Handrails/Guardrails, Floor Mat	✓		Cat C4.4 Diesel Engine	✓	
Vinyl Adjustable Pivoting Seat with Integrated Console and LCD Display	✓		Air Cleaner, Dual Element	✓	
Adjustable Tilting Steering Column with Integrated Cup Holders	✓		Three-Speed Throttle Switch, Eco-mode and Automatic Speed Control	✓	
Rear Vision Camera 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		✓	Two-speed Hydrostatic Transmission	✓	
Internal Rear View Mirror		✓	Transmission Guard		✓
External Rear View Mirrors		✓	TECHNOLOGY SOLUTIONS		
Sun Visor		✓	Measure - Machine Drive Power and/or CMV		✓
Cab Internal Roll-down Sun Screen		✓	Map - SBAS GNSS Mapping		✓
VIBRATORY SYSTEM			Connect - Cloud and Machine Connectivity		✓
Smooth Drum	✓		Command for Compaction		✓
Dual Amplitude, Single Frequency	✓		ELECTRICAL		
Dual Pod-Style Eccentric Weight Housings	✓		24 volt Electrical System	✓	
Auto-vibe Function	✓		100 ampere Alternator	✓	
Front Adjustable Steel Scraper	✓		750 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	✓	
Dual Adjustable Polyurethane Scrapers		✓	Upgraded Halogen Light Package		✓
			Amber Rotating Beacon		✓
			Fuel Fill Access Door		✓
			Italian Road Homologation (IRH)		✓

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

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