CS-423E
CS-433E
CP-433E

Vibratory Soil Compactors

	CS-423E		CS-433E		CP-433E	
Gross Power	60 kW	80 hp	75 kW	100 hp	75 kW	100 hp
Operating Weight (with ROPS/FOPS)	6640 kg	14,635 lb	6640 kg	14,635 lb	6880 kg	15,170 lb
Compaction Width	1676 mm	66"	1676 mm	66"	1676 mm	66"
Centrifugal Force						
High	133.5 kN	30,000 lb	133.5 kN	30,000 lb	133.5 kN	30,000 lb
Low	66.8 kN	15,000 lb	66.8 kN	15,000 lb	66.8 kN	15,000 lb

Introducing the CS-423E. Designed to meet your smooth drum compaction needs.

Engineered for optimum results, the CS-423E features a Caterpillar® 3054B engine rated at 60 kW (80 hp). The CS-423E is sized to minimize operating costs and meet the needs of the majority of applications from site preparation to compacting sub-bases for parking lots or roadways. An optional padfoot shell kit increases versatility and a list of several other attachments provides you with exceptional performance in a wider range of applications.

Dual Propel Pumps
The exclusive dual pump propel system provides a separate balanced hydraulic flow to both the rear drive axle and the front drum drive motor. This system enables the operator to achieve unmatched gradeability and maintain machine control while compacting on a grade or using the optional leveling blade. Dual pumps also minimize drum and wheel spin-out in low traction conditions.
Page 4

Vibratory System
A pod-style weight housing ensures peak vibratory performance and minimal service. The pod is replaceable and features bearing lubrication change intervals of 3 years/3000 hours.
Page 5

Operator's Station
✔ *Based on the 500D-Series Soil Compactors operator's station, the 400E-Series Soil Compactors feature exceptional operator comfort and unmatched visibility to drum and tire edges. A tilting steering column, propel lever wrist rest, grouped control gauges and conveniently located control switches enhance operator productivity and reduce operator fatigue. Four heavy-duty isolation mounts provide a smooth ride.*
Page 6

Setting industry standards... again.

Based upon the industry-proven reputation of the Caterpillar® 400C-Series Soil Compactors, the new 400E-Series establishes new standards for productivity, comfort and serviceability in the soil compaction industry. The 400E-Series compactors continue to provide exceptional reliability, quality and gradeability that you've come to expect from Caterpillar.

✔*New feature*

Full power and complete control, the CS-433E and CP-433E has it all.

Powered by the 75 kW (100 hp) Caterpillar® 3054T engine, the CS-433E and CP-433E provide exceptional performance on flat or aggressive terrain. The turbocharged engine maintains power in high altitudes. These machines are ideal for all CS-423E applications plus water and sewer trench work. Maximize productivity by tailoring the CS-433E or CP-433E to fit your needs with a variety of attachments including a leveling blade.

Cab

✔ *The cab on the 400E-Series Soil Compactors is engineered to provide the operator unparalleled viewing area and comfort. Integrated, factory installed air conditioning is optional.* The cab may be an option in some areas and standard in others. Consult your dealer for specifics.
Page 6

Padfoot Conversion Kit

An optional two-piece padfoot conversion kit (for the CS models only) expands the application range to work in either cohesive or semi-cohesive materials. Simple changing procedure minimizes your conversion time.
Page 7

Leveling Blade

✔ *An optional foot-controlled leveling blade* for the CS-433E and CP-433E increases machine utilization to tackle backfilling, material knockdown and light dozing applications.
Page 7

Visibility

✔ *The one-piece sloped hood design provides exceptional operator visibility to the outside edge of the rear tires and to the rear of the machine.*
Page 8

Serviceability

✔ *The newly designed one-piece fiberglass hood tilts forward to allow access to the engine and daily maintenance points.*

✔ *Sealed-for-life bearings in the articulation hitch never need to be greased.*

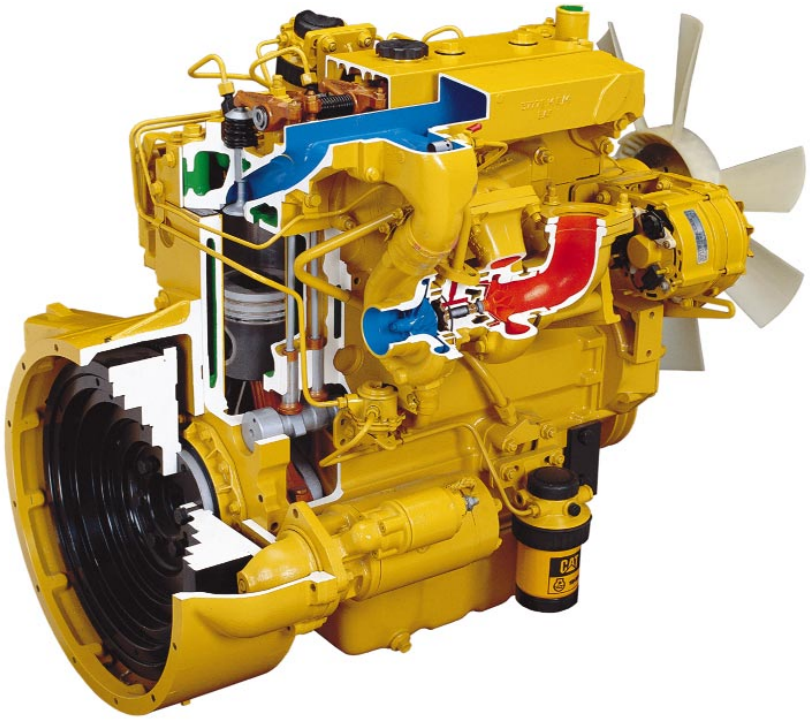
✔ *Engine lubrication change interval of 500 hours.* The operator's station tilts forward to provide access to the hydraulic pumps.
Page 9

Performance and reliability you can trust.

Caterpillar® E-Series Soil Compactors are the benchmark of the soil compactor industry. Durable Cat power train, field-proven hydraulic and vibratory systems and the world's largest and most dedicated dealer support system ensure the 400E-Series Soil Compactors will provide maximum utilization.

Caterpillar® 3054 Series Diesel Engine

Industry-proven Caterpillar technology designed to provide performance, reliability and fuel economy.



The CS-433E and CP-433E are turbocharged for top performance and efficiency even at high altitudes with no derating required up to 2134 m (7000 ft).

The CS-423E is naturally aspirated.

Adjustment-free direct injection fuel system provides individually metered high-pressure, direct injection of fuel for maximum efficiency.

High displacement-to-power ratio ensures long life and exceptional reliability.

Engine oil cooler keeps the engine running cool and maintains the oil integrity.

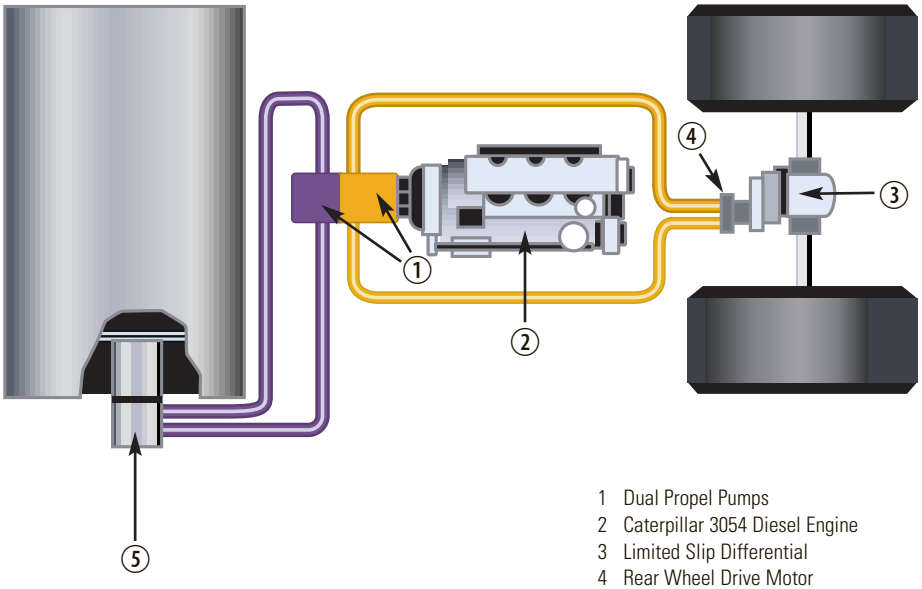
Low-mounted oil pump for quicker start-up lubrication.

Dual fuel filters and water separator offer superior protection for the unit injection system.

Air inlet heater helps cold weather starting.

Dual Pump Propel System

Superior tractive effort and gradeability for outstanding productivity and machine control in demanding environments.



1 Dual Propel Pumps
2 Caterpillar 3054 Diesel Engine
3 Limited Slip Differential
4 Rear Wheel Drive Motor
5 Drum Drive Motor

Dual propel pumps provide separate, balanced flow to the rear wheel axle and the drum drive motors. Provides superior gradeability and increases tractive effort in soft material.

Limited slip differential provides balanced tractive effort to both rear wheels.

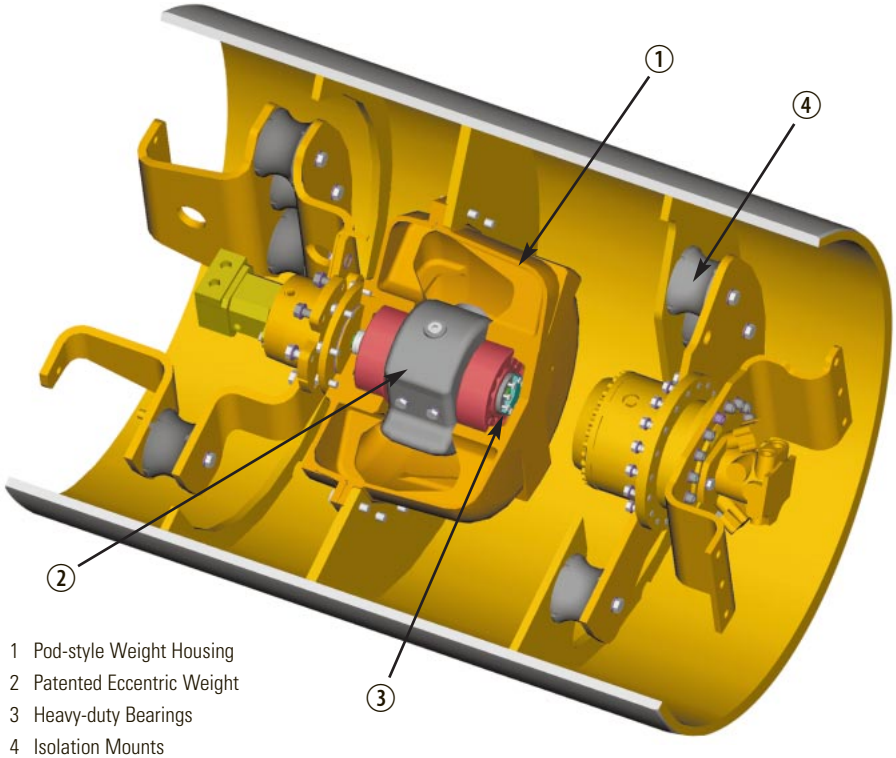
Two speed ranges for versatile operation. Low speed range for vibratory operation and maximum torque when grade climbing. High speed range moves machine quickly over longer distances.

Flushing valves in each propel circuit help keep hydraulic oil cool and clean.

High travel speed up to 11.5 km/h (7.1 mph).

Vibratory System

The pod-style vibratory system delivers superior compactive force while offering serviceability advantages.



1 Pod-style Weight Housing
2 Patented Eccentric Weight
3 Heavy-duty Bearings
4 Isolation Mounts

Pod-style weight housing is assembled and sealed at the factory to ensure cleanliness, longer bearing life and easier field exchange or service.

Dual amplitude works efficiently in a wider range of applications. Changeable from the operator's station.

Vibratory frequency of 31.9 Hz (1915 vpm) for maximum compaction results. Optional variable frequency available with a frequency range from 23.3 - 31.9 Hz (1400 - 1915 vpm).

Large heavy-duty bearings for the eccentric weight shaft allow higher frequency for greater force.

3 year/3000 hour vibratory bearing lube service interval reduces maintenance.

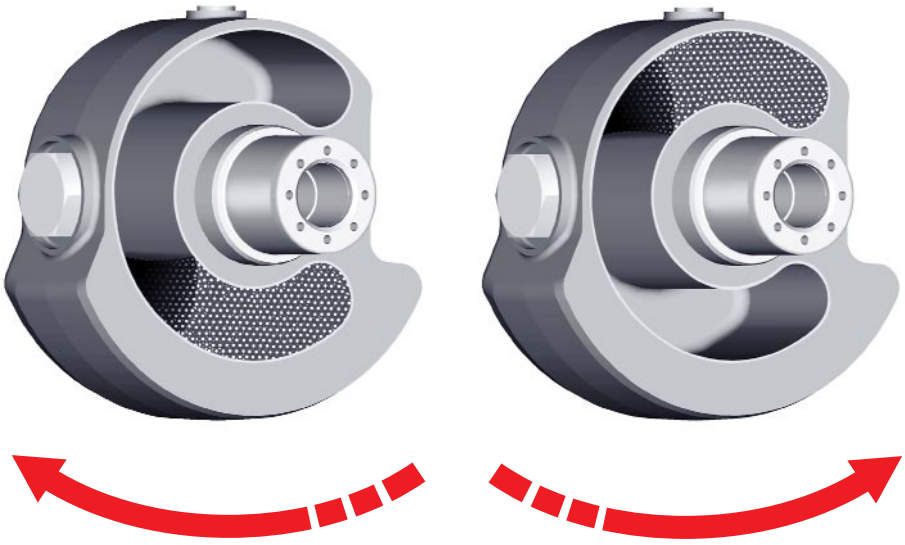
Improved isolation mounts allow more force to be transmitted to the ground and less vibration to the operator.

Patented Eccentric Weights

Reliable dual amplitude selection and innovative design ensure precise performance.

High Amplitude

Low Amplitude



Positive amplitude selection is accomplished when the spherical steel shot is repositioned inside the hollow eccentric weight. Direction of weight shaft rotation determines amplitude.

Improved reliability ensures no chance of steel shot wedging together. System reliability is superior to swinging mechanical weights.

Simplified control from the operator's station with a selection switch on the operator's console.

Operator's Station

Based on the popular Caterpillar® 500D-Series Soil Compactor operator's station, the 400E-Series operator's station features excellent operator comfort and visibility.

Steering console and operational gauges are infinitely adjustable within the tilt range to the desired position of the operator. Entire console tilts for simple entrance and exit.

Single lever control for propel and vibratory On/Off provides simple and low effort operation. A padded adjustable wrist rest helps reduce operator fatigue.

Comfortable and durable seat has adjustable fore/aft position, bottom cushion height, suspension stiffness and flip-up arm rests. A five position-rotating seat is optional.

Isolated operator's station with heavy-duty rubber mounts reduce machine vibration transmitted to the operator.

Rubber floor mat helps further isolate the operator from machine vibration and noise.

ROPS/FOPS Cab

Optional cab can increase machine utilization in extreme environment conditions and the ergonomic design emphasizes comfort, visibility and easy operation.

The cab is a spacious and comfortable work environment that includes large windows, more interior room with storage areas, better ergonomics and a dramatic reduction in interior sound levels.

Full-length glass windshield provides exceptional visibility to the drum and optional leveling blade.

Two exterior rear view mirrors, front and rear working lights and cab lift cylinder included with cab.

Windshield wipers on front and rear windows allow clear vision in adverse conditions.

Slide-open side windows for cross ventilation.

Climate control with standard heater and defroster for maximum operator comfort. Optional air conditioning helps keep the cab cool and comfortable.

Leveling Blade

Leveling blade option for the CS-433E and CP-433E increases machine versatility and utilization, plus greatly enhances productivity.

Expands machine versatility and utilization for use in material knockdown, site leveling, trench backfilling and light dozing.

Blade control is controlled by operator's foot to provide simple, one-handed operation of machine propel, steering and blade functions simultaneously.

Dual propel pumps provide plenty of power and tractive effort for effective blade use without drum spin.

No special permits for transporting with a blade width of 2.10 m (6' 11"). Blade cutting depth is 76 mm (3").

Two-piece reversible and replaceable cutting edges increase edge service life and reduce replacement costs.

High mounting point provides superior curb and obstruction clearance.

Padfoot Shell Kit

Optional padfoot shell kit expands the application range of the CS-423E and CS-433E to work in either cohesive or semi-cohesive material.

Two-piece shell kit features a total of 84 pads with a pad height of 90 mm (3.5"). Each half of the shell kit weights 453 kg (1000 lb) and includes a special bumper for a quick conversion.

Expands machine application range to work effectively in either cohesive or semi-cohesive material.

Meets compaction specification quickly with no loss in compactive performance in semi-cohesive material.

Kit can be quickly and easily removed or installed for adaptation to specific job conditions with no special tooling required.

Bumper allows blade option installation on CS-433E and provides a secure area to store smooth drum scraper plates when not in use.

One-Piece Hood Design

The new one-piece fiberglass hood design provides excellent service access and exceptional operator visibility.

Visibility to the drum and tire edges are exceptional. The sloped hood allows the operator to see obstacles measuring 1 meter (3' 3") high located 1 meter (3' 3") to the rear of the machine. Excellent visibility in all directions increases productivity for working near obstructions, in trenches, or maneuvering around the job site.

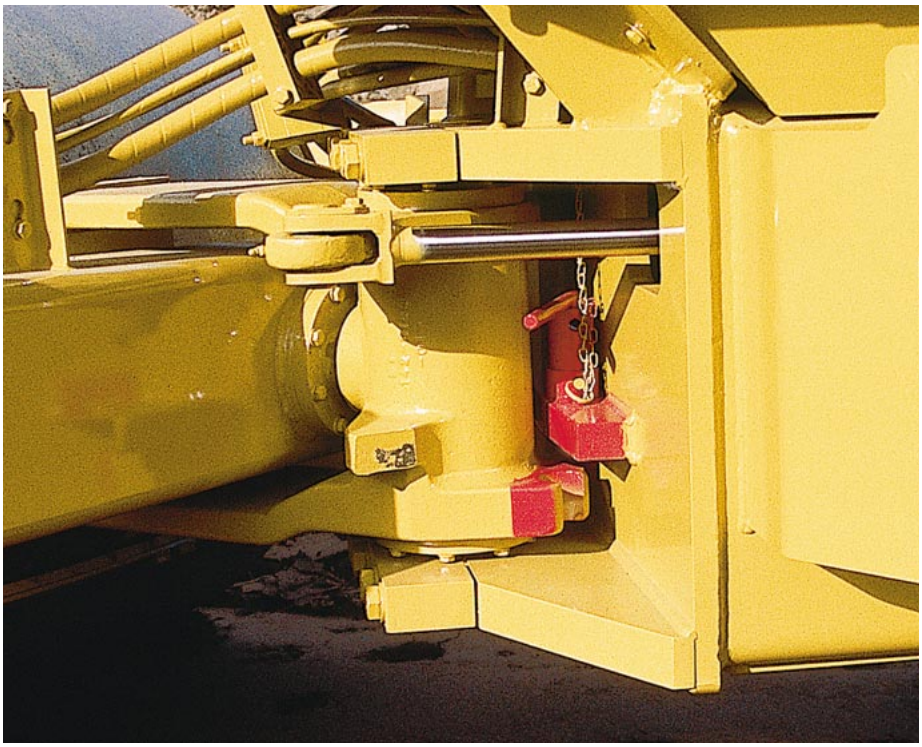
One-piece fiberglass hood tilts forward to provide unrestricted access to the engine and all service points.

Gas charged struts easily lifts hood to provide exceptional access to the engine and cooling system.

Low sound levels for the operator and the ground crew due to the one-piece hood design and revised cooling air flow through the rear mounted radiator.

Articulation and Oscillation Hitch

The hitch area, proven reliable on 500D-Series Soil Compactors, offers improved durability, reliability and simplified service.



Hitch area is structurally reinforced and joined by two hardened steel pins for improved service life.

Vertical articulation pin permits 37 degrees steering in either direction.

Horizontal oscillation pin allows up to 15 degrees drum oscillation.

Sealed-for-life tapered roller bearings never need greasing or maintenance.

Articulation lock prevents the inadvertent articulation of machine during shipping or while performing service on the machine.

Shares parts commonality with the Cat® 500D-Series Soil Compactors.

Reliability and Serviceability

Reliability and serviceability are integrated into every Caterpillar machine. These important features keep your machine investment profitable.

Visual indicators allows easy check of radiator coolant, hydraulic oil tank level and air restriction indicator.

One-piece fiberglass hood tilts forward for access to the engine and cooling system. Service points are accessible from ground level and are grouped on one side of the engine.

Operator's station tilts forward to allow convenient access to the hydraulic pumps.

Sealed-for-life bearings in the articulation hitch never need to be greased.

3 year/3000 hour vibratory bearing lube service interval reduces maintenance.

Quick connect hydraulic test ports simplify system diagnostics.

Electrical wiring is color-coded and numbered to simplify troubleshooting.

Nylon braided wrap and all-weather connectors ensure electrical system integrity.

Maintenance-free Caterpillar batteries are mounted in the rear of the machine and are protected by the engine hood. Caterpillar batteries are specifically designed for maximum cranking power and protection against vibration.

S•O•S℠ (Scheduled Oil Sampling) ports allow for simple fluid collection of engine oil, engine coolant and hydraulic oil.

Secure hose routing with polyurethane routing blocks to reduce rubbing and increase service life.

Factory Reman parts are a cost-effective and reliable solution to keep your machines productive. Caterpillar offers a large choice of Reman components including hydraulic pumps and motors.

The one-piece fiberglass hood tilts for exceptional access to the engine and cooling system. Service points are accessible from ground level and are grouped on one side of the engine.

Engine
CS-423E

Four-stroke, four cylinder Caterpillar® 3054B naturally aspirated diesel engine. Meets EPA and CARB emissions regulations. Equipped with a spark arresting muffler.

Ratings at	RPM	kW	hp
Gross power	2200	60	80

Engine
CS-433E and CP-433E

Four-stroke, four cylinder Caterpillar® 3054T turbocharged diesel engine. Meets EPA and CARB emissions regulations. No derating required up to 2134 m (7000') altitude.

Ratings at	RPM	kW	hp
Gross power	2200	75	100

Ratings of Caterpillar machine engines are based on standard air conditions of 25°C (77°F) and 100 kPa (29.61" Hg) dry barometer. Power is based on using 35° API gravity fuel having an LHV of 42 780 kJ/kg (18,390 Btu/lb) when used at 30°C (86°F) [ref. a fuel density of 838.9 g/L (7.001 lb/U.S. gal)]. Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler and alternator. All models feature a dual-element, dry-type air cleaner with visual restriction indicator.

The following ratings apply at 2200 RPM when tested under the specified standard conditions:

Net Power	kW	hp
EEC80/1269	57	77
ISO 9249	57	77
SAE J1349 Jan90	57	77

Net Power	kW	hp
EEC80/1269	72	96
ISO 9249	72	96
SAE J1349 Jan90	72	96

Dimensions		
Bore	103 mm	4.05"
Stroke	127 mm	5"
Displacement	4.2 liters	258 cu. in.

Dimensions		
Bore	100 mm	3.94"
Stroke	127 mm	5"
Displacement	4.0 liters	243 cu. in.

Operator and Machine Protective Equipment

Roll Over Protective Structure/Falling Object Protective Structure (ROPS/FOPS) canopy is a two-post structure that bolts directly onto flanges welded to the operator platform. The structure meets SAE J1040 May94, SAE J231 Jan81, ISO 3471-1994 and ISO 3449-1992. This structure may be an option in some areas and standard in others. Consult your dealer for specifics.

Backup Alarm — 112 dB(A) alarm sounds whenever the machine is in reverse. The backup alarm has three sound levels that can be changed with a switch located on the alarm.

Seat Belt — 76 mm (3") wide seat belt is standard.

Transmission

Two variable displacement piston pumps supply pressurized flow to two dual displacement piston motors. One pump and motor drives the drum propel system while the other pump and motor drives the rear wheels.

The two-pump system ensures equal flow to the drive motors regardless of the operating conditions. In case the drum or wheels lose traction, the other motor can still build additional pressure to provide added torque.

The drive motors have two swashplate positions allowing operation at either maximum torque for compaction and gradeability or maximum speed for moving around the job site. A rocker switch at the operator's console triggers an electric over hydraulic control to change speed ranges.

Speed changes can be made without stopping. A single propel lever located on the control console provides smooth hydrostatic control of the machine's infinitely variable speeds in both forward and reverse.

Speeds (forward and reverse):	
Low range	5.5 km/h – 3.4 mph
High range	11.5 km/h – 7.1 mph
Gradeability	
with or without vibration (subject to underfoot conditions)	44%

Vibratory System Specifications

Drum diameter (over drum)	1221 mm	48"
Drum diameter (over pads) CP-433E	1227 mm	48"
Drum width	1676 mm	66"
Drum shell thickness	25 mm	1"
Pads (CP-433E only)		
Number of pads	108	
Pad height	90 mm	3.5"
Pad face area	89.4 cm^2	13.86 in^2
Number of chevrons	9	
Eccentric weight drive	Hydrostatic	
Frequency		
Standard	31.9 Hz	1915 vpm
Optional	23.3 - 31.9 Hz	1400 - 1915 vpm

Nominal Amplitude

High	1.67 mm	0.066"
Low	0.84 mm	0.033"
High (CP-433E only)	1.55 mm	0.061"
Low (CP-433E only)	0.78 mm	0.031"

Centrifugal Force @ 31.9 Hz (1915 vpm)

High Amplitude	133.5 kN	30,000 lb
Low Amplitude	66.8 kN	15,000 lb

Weight at Drum (with ROPS/FOPS)

CS-423E	3500 kg	7,720 lb
CS-433E	3500 kg	7,720 lb
CP-433E	3710 kg	8,180 lb

Linear Force*	**Static**		**Centrifugal**	
CS-423E	20.9 kg/cm	117 lb/in	0.796 kN/cm	455 lb/in
CS-433E	20.9 kg/cm	117 lb/in	0.796 kN/cm	455 lb/in
CP-433E	16.5 kg/cm^2	235 lb/in^2	0.597 kN/cm^2	866 lb/in^2

*Meets NFP 98736 class: VM2

Brakes

Service brake features

- Closed-loop hydrostatic drive system provides dynamic braking during operation.

Secondary brake features*

- Spring-applied/hydraulically-released multiple disc type brake mounted on the drum drive gear reducer. Secondary brakes are activated by a button on the operator's console, loss of hydraulic pressure in the brake circuit or when the engine is shut down. A brake interlock system prevents driving through the secondary brake.

**Machines sold within the European Union are also equipped with rear axle brakes. Braking system meets SAE J1472 Jan98, ISO 3450-1996 and EN418.*

Steering

A priority-demand hydraulic power-assist steering system provides smooth low-effort steering. The system always receives the power it needs regardless of other hydraulic functions.

Minimum turning radius:

Inside	3.05 m	(10')
Outside	4.73 m	(15' 6")

Steering angle:
(each direction) ± 37°

Oscillation angle:
(each direction) ± 15°

Hydraulic system:
Two 64 mm (2.5") bore, double-acting cylinders powered by a gear-type pump.

Service Refill Capacities

	Liters	Gallons
Fuel tank	160	42.2
Full fuel capacity	153	40.4
Cooling system	18	4.8
Crankcase	6.8	1.8
Eccentric weight housing	12	3.2
Limited slip axle	15.9	4.2
Planetary gear reducers	2.3	0.6
Hydraulic system	80	21
Hyd. filtration system (pressure type) 15 micron absolute		

Instrumentation

Alternator Light, Hour Meter, Fuel Gauge, Horn, Audible Warning Horn for the: Low Engine Oil Pressure Light, High Engine Coolant Temperature Light, High Hydraulic Oil Temperature Light, Low Charge Pressure Light.

Electrical

The 24-volt electrical system consists of two maintenance-free Caterpillar batteries, color-coded and numbered wiring wrapped in nylon braid. The starting system provides 750 cold cranking amps (cca). The system includes a 55-amp alternator.

Frame and Drum Yoke

Fabricated from heavy gauge steel plate and rolled sections and joined to the drum yoke at the articulation pivot. Articulation area is structurally reinforced and joined by hardened steel pins. Sealed-for-life hitch bearings never need maintenance.

Final Drives and Axle

Final drive is hydrostatic with gear reducer to the drum and hydrostatic with differential and planetary gear reduction to each wheel.

Axle:

Heavy-duty fixed rear axle with a limited slip differential for smooth and quiet torque transfer.

Axle width 1.27 m (4' 2")

Tires:

CS-423E/CS-433E: 378 mm (14.9") x 610 mm (24") 6-ply flotation

CP-433E: 378 mm (14.9") x 610 mm (24") 6-ply traction

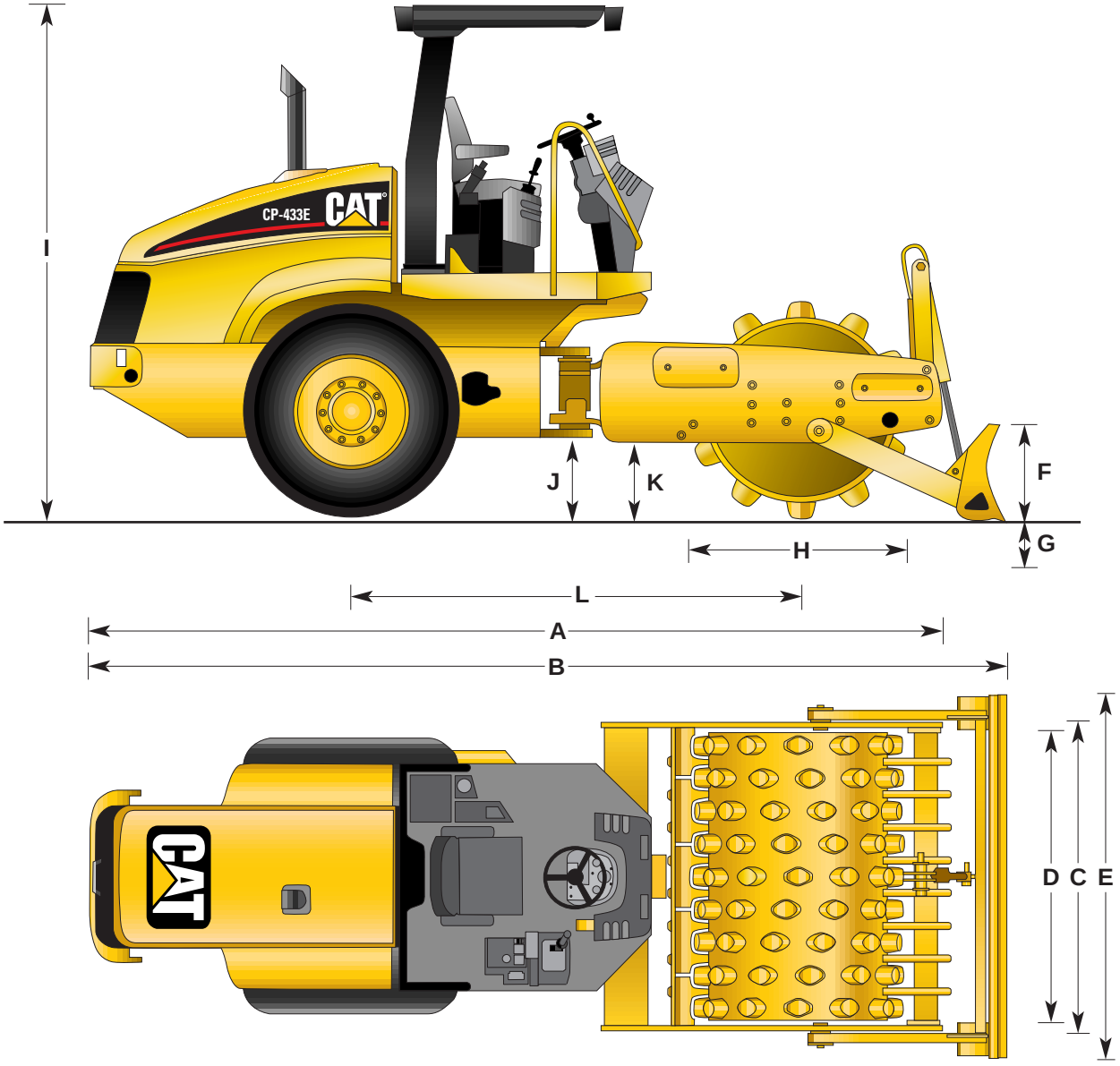
Operating Weights (approximate)

Weights include lubricants, coolant, full fuel and hydraulic tanks and a 80 kg (175 lb) operator.

Machine Weights	CS-423E		CS-433E		CP-433E	
with open platform	6410 kg	14,135 lb	6410 kg	14,135 lb	6650 kg	14,665 lb
with ROPS/FOPS canopy	6640 kg	14,635 lb	6640 kg	14,635 lb	6880 kg	15,170 lb
with ROPS/FOPS cab	6885 kg	15,175 lb	6885 kg	15,175 lb	7125 kg	15,710 lb
with leveling blade and ROPS/FOPS	—	—	7030 kg	15,495 lb	7270 kg	16,030 lb
Weight at Drum						
with open platform	3453 kg	7,610 lb	3453 kg	7,610 lb	3665 kg	8,078 lb
with ROPS/FOPS canopy	3500 kg	7,720 lb	3500 kg	7,720 lb	3710 kg	8,180 lb
with ROPS/FOPS cab	3603 kg	7,945 lb	3603 kg	7,945 lb	3815 kg	8,412 lb
with leveling blade and ROPS/FOPS	—	—	4050 kg	8,930 lb	4262 kg	9,397 lb

Dimensions

		CS-423E		CS-433E		CP-433E	
A	Operating length	4.96 m	(16' 3")	4.96 m	(16' 3")	4.96 m	(16' 3")
B	Length with blade	—	—	5.34 m	(17' 6")	5.34 m	(17' 6")
C	Max. machine width	1.8 m	(5' 11")	1.8 m	(5' 11")	1.8 m	(5' 11")
	Outside turning radius	4.73 m	(15' 6")	4.73 m	(15' 6")	4.73 m	(15' 6")
	Inside turning radius	3.05 m	(10')	3.05 m	(10')	3.05 m	(10')
D	Compaction width	1.7 m	(5' 6")	1.7 m	(5' 6")	1.7 m	(5' 6")
E	Width with blade	—	—	2.10 m	(6' 11")	2.10 m	(6' 11")
F	Blade height	—	—	559 mm	(22")	559 mm	(22")
G	Blade cutting depth	—	—	76 mm	(3")	76 mm	(3")
H	Drum diameter	1221 mm	(48")	1221 mm	(48")	1221 mm	(48")
	Drum diameter over pads	—	—	—	—	1227 mm	(48.3")
I	Height at ROPS/FOPS	2.93 m	(9' 7")	2.93 m	(9' 7")	2.93 m	(9' 7")
J	Ground clearance	403 mm	(15.9")	403 mm	(15.9")	403 mm	(15.9")
K	Curb clearance	375 mm	(14.8")	375 mm	(14.8")	375 mm	(14.8")
L	Wheelbase	2.60 m	(8' 6")	2.60 m	(8' 6")	2.60 m	(8' 6")



Total Customer Support System

Parts availability — most parts on dealer's shelf when you need them. Computer-controlled, emergency search system backup.

Parts stock lists — dealer helps you plan on-site parts stock to minimize your parts investment while maximizing machine availability.

Machine management services — effective preventive maintenance programs, cost-effective repair options, customer meetings, operator and mechanic training.

Remanufactured parts — pumps and motors, engines, fuel system and charging system components available from dealer at 20 - 50% of new part cost.

Service capability — dealer's shop or fast field service by trained technicians using latest tools and technology.

Literature support — easy-to-use parts books, operation and maintenance manuals and service manuals to help you get maximum value from Caterpillar equipment.

Flexible financing — your dealer can arrange attractive financing on the entire line of Caterpillar equipment. Terms structured to meet cash flow requirements. See how easy it is to own, lease or rent Cat equipment.

Value Analysis

Gradeability

- Unique dual pump propel system provides field-proven and industry-leading grade climbing, machine control and tractive power for effective use of the leveling blade option.
- Drum and wheel drive results in excellent tractive effort.
- Separate propel systems outperform flow-dividers.

Productivity

- Pod-style vibratory system provides high compactive effort and features numerous serviceability advantages to keep the machine productive.
- The Cat® 3054 engine is matched to machine weight and application demands.
- High dynamic force helps get density in the fewest number of passes.
- Large pad face area and pad height on the CS-423E and CS-433E shell kit option get density deeper in the lift.
- High working speed increases productivity.

Serviceability

- The one-piece fiberglass hood tilts forward for easy access to daily maintenance points.
- Parts commonality makes servicing easier.
- 3 year/3000 hour vibratory bearing lube service interval keeps maintenance to a minimum and maximizes production.
- Daily check points are accessible from ground level.
- The operator's platform tilts forward for better hydraulic component access.
- The articulation hitch area features sealed-for-life bearings that never need maintenance.

Versatility

- Standard dual amplitude expands the compactor's application range.
- The large spread between high and low centrifugal force makes it easier to tailor the compactive effort to density specifications.
- The high traction propel system means the machine can go more places and push more material with the optional blade.
- The optional padfoot shell kit makes the CS-423E and CS-433E an extremely adaptable machine to either cohesive or semi-cohesive material.

Reliability

- The patented eccentric weight system is completely sealed.
- The absence of swinging counter-weights eliminates the chance for metal chips to contaminate the vibratory lubrication system or for heavy weights to wedge together.
- The O-ring face seal hydraulic connections help maintain system integrity.
- The hydraulic hoses are carefully routed and secured by polyurethane mounting blocks to prevent rubbing.
- The Cat electrical system includes two Caterpillar batteries and color-coded and numbered wires protected by vinyl-coated nylon braid wrap.

Optional Equipment

Note: Some options listed may be an option in some areas and standard in others. Consult your dealer for specifics.

Roll Over Protective Structure/Falling Object Protective Structure (ROPS/FOPS) canopy is a two-post structure that bolts directly onto flanges welded to the operator platform. Includes two front-facing and two rear-facing working lights, handrails and a rear view mirror. The structure meets SAE J1040 May94, SAE J231 Jan81, ISO 3449-1992 and ISO 3471-1994.

ROPS/FOPS Cab includes a cloth suspension seat, one access door, tinted safety glass windows, electric wipers front and rear, heater/defroster, two vertically sliding side windows for ventilation, two exterior rear view mirrors, two front-facing and two rear-facing working lights, interior dome light, coat hook and cab lift cylinder. *Cab can be ordered with or without air conditioning.* Cab is fully EROPS rated and meets SAE J1040 May94, SAE J231 Jan81, ISO 3449-1992 and ISO 3471-1994.

Rotating Suspension Seat has five positions to provide improved operator comfort when operating in the reverse direction. Available in vinyl covering for the operator's platform and cloth covering for machines equipped with a ROPS/FOPS cab.

Sun Visor for the front windshield can be installed on machines equipped with a ROPS/FOPS cab.

Roll-Down Sun Screen for the rear window can be installed on machines equipped with a ROPS/FOPS cab.

Operator Platform Lift Cylinder is available and provides a hydraulic cylinder to raise and lower the operator's platform.
(Standard with ROPS/FOPS cab.)

Variable Frequency is an electronic displacement control on the vibratory pump that is operated by a dial on the operator's station. Engine rpm remains constant. Frequency range from 23.3 - 31.9 Hz (1400 - 1915 vpm) makes it easier to match frequency, amplitude and working speed to job conditions. Includes the vibratory gauge.

Vibratory Gauge is mounted on the console in front of the operator and displays the actual vibratory system frequency. (Standard with the variable frequency option.)

Rotating Beacon includes an amber beacon and mount that can be attached to machines with ROPS/FOPS canopy or ROPS/FOPS cab.

Brake Release Pump is available and allows the manual release of the secondary brake system for towing the machine.

Leveling Blade for the CS-433E and CP-433E is designed to bolt onto the drum yoke. Complete unit includes heavy-duty blade, push arms, reversible/replaceable cutting edges, replaceable wear plates, a heavy-duty hydraulic lift cylinder and control valve. Moldboard is constructed of heavy-duty steel. Blade measures 2.10 m (6' 11") wide and 559 mm (22") high. Maximum depth of cut is 76 mm (3").

Two-Piece Padfoot Shell Kit bolts onto the smooth drum CS-423E or CS-433E. Features 90 mm (3.5") high pads. Each shell half weights 453 kg (1000 lb) and includes a special bumper for a quick conversion.

Padfoot Drum Scraper System for the CP-433E mounted on the rear of the drum prevents build up of material between the pads. The scraper teeth are bolt-on, individually adjustable and field replaceable.

Polyurethane Drum Scrapers for the CS-423E and CS-433E provide a front and rear scraper for continuous contact with the drum surface and replaces the standard steel front scraper.

Spare Tire w/Rim is available for both the flotation tread and the traction tread.

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

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