VOLVO SINGLE DRUM COMPACTORS

SD105

11.3-11.8 t 97kW





A PASSION FOR PERFORMANCE.

At Volvo Construction Equipment, we're not just coming along for the ride. Developing products and services that raise productivity – we are confident we can lower costs and increase profits for industry experts. Part of the Volvo Group, we are passionate about innovative solutions to help you work smarter – not harder.

Helping you to do more

Doing more with less is a trademark of Volvo Construction Equipment. High productivity has long been married to low energy consumption, ease of use and durability. When it comes to lowering life-cycle costs, Volvo is in a class of its own.

Designed to fit your needs

There is a lot riding on creating solutions that are suited to the particular needs of different industry applications. Innovation often involves high technology – but it doesn't always have to. Some of our best ideas have been simple, based on a clear and deep understanding of our customers' working lives.



You learn a lot in 180 years

Over the years, Volvo has advanced solutions that have revolutionized the use of construction equipment. No other name speaks Safety louder than Volvo. Protecting operators, those around them and minimizing our environmental impact are traditional values that continue to shape our product design philosophy.

We're on your side

We back the Volvo brand with the best people. Volvo is truly a global enterprise, one that is on standby to support customers quickly and efficiently – wherever they are.

We have a passion for performance.











vo Truoko

Renault Trucks

Mack Trucks













Ponta Volu

Volvo Financial Services

CONTROL IN COMFORT.

Safety and comfort are packed into the Volvo SD105 single drum soil compactor. With all-around visibility, a rotating seat and low noise levels, the task at hand becomes easier and operators will work efficiently with less fatigue. Increase your productivity with Volvo.

Visibility

Floor to ceiling, 360° visibility provides maximum safety. The machine's frame and hood have been designed to provide a superior rear view with 1x1 meter visibility from the operator's seat.

Climate control

For maximum comfort, the enclosed cab is fitted with a powerful heating and air conditioning system as standard. The enhanced climate control system routes air through vents conveniently located on both high and low sides of the operator's seat to quickly lower or raise the temperature and increase comfort.



Operator controls and propulsion control lever

The ergonomically designed operator controls and console are optimally positioned for increased comfort and productivity. Key functions are accessible in close proximity to the controls. The propulsion control lever ensures smooth and precise speed control and features integrated vibration activation and an easy-to-find detent.

Rotating seat

The adjustable seat can be rotated 15° to the left and 45° to the right – enhancing visibility and safety when operating in reverse while also increasing operator comfort.



SUPERIOR COMPACTION.



The powerful SD105 is designed with productivity in mind. Dual amplitude, variable frequency, high centrifugal force and a heavy drum weight ensure optimal compaction in less time. Experience increased machine performance and enhanced productivity with Volvo.

Centrifugal force

The SD105 delivers high drum impact forces when operating in both high and low amplitude. The combination of high centrifugal force and heavy drum weight facilitates excellent compaction - allowing you to achieve material target density in fewer passes.

Variable frequency

Easily adjust the vibration frequency from the operator console to compensate for changing soil types and worksite conditions - increasing productivity and performance. Dual frequency is standard; for

 increasing productivity and performance. Dual frequency is standard; to greater versatility the variable five frequency option can be selected.





THE VOLVO EXPERIENCE.





VOLVO GIVES YOU MORE.



Increase your versatility and access more applications with the SD105. Whether you're working on steep inclines or slippery surfaces, this machine delivers the power and traction you need to cover all applications and material depths. Maximize your productivity and profitability and get the job done with Volvo.

Tapered drum frame

The tapered drum frame allows for a steep grade approach of up to 35° as well as increased clearance when loading for transport.

Articulation-oscillation joint

The center joint provides 38° of articulation and 17° of oscillation for greater stability, maneuverability and performance. Compaction is improved by maintaining continuous drum contact with the ground.



MAINTENANCE MADE EASY.

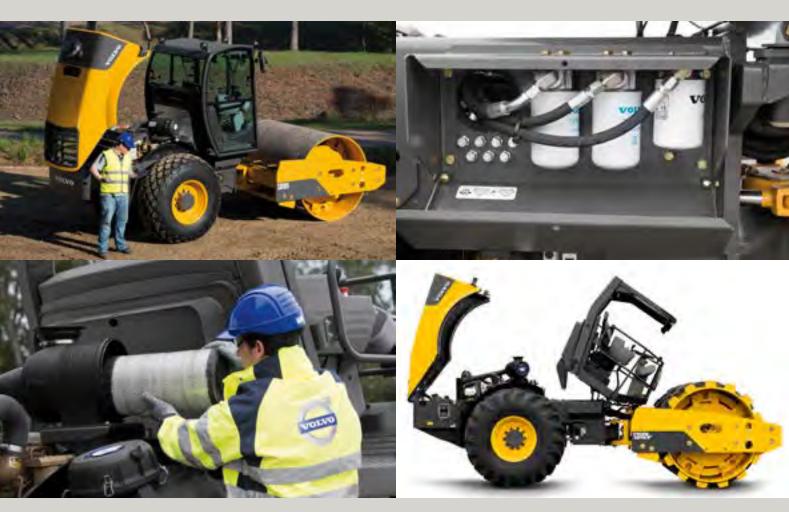
The SD105 has been built with easy service and maintenance access in mind. Key checkpoints are conveniently located allowing regular checks to be done quickly and efficiently. Maximize your uptime and get the most out of each working day with Volvo.

Daily checkpoints

Each daily checkpoint is conveniently located and easily accessible – reducing maintenance time and improving the quality of daily inspections.

Grouped service ports

Key service ports are grouped to ensure hydraulic pressure check is straightforward and uptime is maximized.



Filter maintenance

To enable convenient daily checks, the air filter is remotely mounted under the engine compartment. All hydraulic test ports and filters are grouped in a sealed compartment under the cab, ensuring quick and easy access.

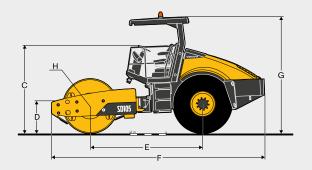
Cab tilt

The operator platform can be tilted forward to provide quick and easy access to the major hydraulic components.



SPECIFICATIONS.

Model	SD105			
Drum type			Smooth	Padfoot
Machine Weights (inc. cab a	nd ins	ide scrapei	r)	
Operating Weight (CECE)		kg	11 286	11 857
Static Weight @ Drum		kg	6 543	7 114
Static Weight @ Tyres		kg	4 743	4 743
Shipping Weight		kg	11 156	11 727
Operating Weight w/ROPS (C	ECE)	kg	10 748	11 321
Bolt-on Padfoot Shell		kg	1 419	
Drum				
Width		mm	2 134	2 134
Diameter		mm	1 500	1 500
Shell Thickness		mm	25	25
Diameter Over Pad Feet		mm	-	1 702
Pad Feet		Number of	-	120
Pad Height		mm	_	101
Pad Tip Area		cm ²	-	135.3
Vibration				
Frequency		Hz	30.8/33.8	27.5/33.8
Optional 5 settings (High Amp)	Hz	23.3 - 33.8	22.5 - 33.8
Centrifugal Force	High	kN	258	270
	Low	kN	207	264
Nominal Amplitude	High	mm	1.92	2.22
	Low	mm	1.29	1.44
Propulsion				
Type System				ostatic
Tyre Size				x 26) R3 8PR TT
Drum Drive				x 26) R1 8PR TL gear box
Travel Speed				
High		km/h	8.7	10.2
Low		km/h	5.8	6.2
Engine				
Make / Model			Cummins	S QSB 4.5
Engine Type			Turbocharge	ed 4-cylinder
Rated Power @ Installed Speed	d	kW (hp)	_	130)
Electrical System		` ' '		
Positive grounded		Volt	1	2
Alternator		Ah	g	95
Batteries		CCA	1 x	750
Brakes				
Service			Hydro	ostatic
Parking / Secondary				d, hydraulically drum & axle
Miscellaneous			TOICASCU OII	drain & axic
Articulation Angle		0	⊥/-	· 38
Oscillation Angle		0		- 17
Fuel Capacity		L		67
Hydraulic Oil Capacity		L		34
Gradeability (theoretical)		%	65	60
Gradeability (tileoretical)		90	00	00





DIMENSIONS

	Smooth drum	Padfoot drum
	mm	mm
Α	2 286	2 286
В	2 134	2 134
С	2 253	2 253
D	483	483
E	3 100	3 100
F	5 895	5 895
G	3 091	3 146
Н	750	750

EQUIPMENT.

STANDARD EQUIPMENT

	C	Cab
Volvo Standard ROPS	Canopy	Cab
		•
Variable frequency	•	•
Rotating full suspension seat Tiltable cab for service	•	•
	•	•
Retracting seat belt Seat belt alarm	•	•
	•	•
Operator prescense switch	•	•
Hydraulic test ports and remote filters	•	•
External lockable fuel fill	•	•
Tiltable steering wheel	•	•
Back-up alarm	•	•
Daily service checkpoints list	•	•
12 Volt power port	•	•
Drum isolation	•	•
High ground clearance	•	•
Integrated parking brake	•	•
Parking brake test function	•	•
Wrap-around handrails	•	
Starter motor protection	•	•
Three stage air intake filter	•	•
Climate control		•
Windshield wipers		•
Ballasted tires for stability	•	•
Countersunk frame bolts for clearance	•	•
Two-speed transmission	•	•
Heavy-duty frame	•	•
Engine fan guard	•	•
Operator platform isolation	•	•
Smooth drum	•	•

OPTIONAL EQUIPMENT

5 Frequency Vibration
Smart power
Cab
Gauge package
Impact & VPM Meter
Compaction Analyzer
Compaction Analyzer - prep kit
Compaction Analyzer - printer
Inside scraper
Bolt-on padfoot shell kit
Premium bumper
Audible alarm
Work lights
Rotating beacon
Vandal cover
Fuel strainer
First aid mounting
Fire extinguisher mounting
Steering wheel - spinner kit
Remote oil drain
CE weighted bumper
Scraper - hardened
Tires - diamond Tread
Tires - traction Tread
Tow valve
Road lights
Grid heater
Special paint
Bio-degradable oil
Suspension seat headrest
CD radio
Leveling blade
Hose covers

SELECTION OF VOLVO OPTIONAL EQUIPMENT

Padfoot shell kit



Smart power



Diamond tread and traction tire



Compaction gauge



Inside scraper



Auto vibe package



VOLVO CONSTRUCTION EQUIPMENT



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Ref. No 20037491-A 2013.09 Volvo, Global Marketing