

V O L V O



Volvo Single Drum Compactors 10,9-11,4 t / 24.030-25.133 lb 99 kW 133 hp

# SD110B

Volvo Construction Equipment



# Welcome to our world

Welcome to a world of industry leading machinery. A world where imagination, hard work and technological innovation will lead the way towards developing a future which is cleaner, smarter, and more connected. A world supported by the enduring values of the Volvo Group. A world of stability, sustainability and innovation. A world which we put our customers at the heart of.

Welcome to the world of Volvo Construction Equipment – we think you're going to like it here.

## **Working harder, working smarter**

For over 180 years Volvo has been a pioneer in the design and manufacture of machines which set the standard for efficiency, performance and uptime. Across our range of excavators, wheel loaders and haulers, our reputation for engineering excellence is unrivalled, which means whatever your operation or application, we can provide a total fleet solution to help you succeed.

Building on our proud history, the Volvo Concept Lab continues to create cutting-edge ideas and innovative concepts, to ensure we offer customers machines which work harder and smarter long into the future.



## Solutions for you

Our industry leading machines are just the start of your relationship with Volvo. As your partner, we have developed an extensive range of additional solutions to help you improve uptime, boost productivity and reduce costs.

### Designed for your business

Structured across nine blocks, our portfolio of products and services are designed to complement your machine's performance and boost your profitability. Simply put, we offer some of the best guarantees, warranties and technological solutions in the industry today.

### There when you need us

Whether you're buying new or used, our global network of dealers and technicians offer around-the-clock support, including machine monitoring and world-class parts availability. It's the basis of everything offered by Volvo Services, so you can be confident we've got you covered right from the start.

 <b>Fuel Efficiency Services</b>	 <b>Productivity Services</b>	 <b>Safety Services</b>
 <b>Financial Services</b>	 <b>Uptime Services</b>	 <b>Rental Services</b>
 <b>Volvo Attachments</b>	 <b>Genuine Volvo Parts</b>	 <b>New life Services</b>

# BUILDING TOMORROW

# Roll with the best

The SD110B single drum compactor from Volvo is built to deliver a powerful performance. A choice of vibration frequencies gives you the flexibility you need to tackle a range of jobs, and with Volvo's new padfoot design you can be sure to get more done, faster. This compactor is designed to increase your versatility for ultimate productivity.

## Frequency and amplitude choices

Easily adjust the vibration frequency from the operator console to compensate for changing soil types and conditions. Change drum amplitude according to material depth – increasing productivity. Multiple drum settings give you even greater performance and versatility.



## Padfoot drum

Volvo's padfoot drum provides increased pressure on the material to knead cohesive materials. Increasing density and improving consistency.



## Padfoot Shell Kit

The compactor is quickly and easily converted from a smooth drum by clamping on a padfoot shell. The padfoot shell kit allows the machine to work in different applications and increases versatility.



## Great gradeability

The Volvo traction system provides excellent climbing and traction capabilities in difficult applications such as steep inclines or slippery surfaces. The system prevents tire or drum spin, improving gradeability, performance and productivity.





# SUPERIOR DRUM PERFORMANCE

Volvo's advanced drum control system is optimized to deliver multiple frequencies, dual amplitude, and variable centrifugal force – matching the drum's performance to your application. The choice of high or low amplitude is easily selected, giving you the flexibility to adjust the drum's dynamic force based on the job and material depth. The combination of high force and heavy weight facilitates excellent compaction – allowing you to achieve material target density in fewer passes.

# Performance, quality, efficiency

The SD110B comes from a long line of high quality compactors with premium features as standard.

Thanks to a tough steel frame, robust drum design and Volvo's superior components, you can experience the very best in powerful, efficient compaction. This machine is also equipped with a perfectly optimized Volvo engine that ensures outstanding performance whatever your job, giving you excellent efficiency while keeping emissions down.

## High quality components

This compactor features the highest quality components, clever routing and clean design. The engine, hydraulics and electronics work in harmony, delivering superior performance and increased machine life.



## ECO mode

Volvo's ECO mode adjusts the engine speed offering up to 20% reduced fuel consumption.



## Efficient cooling system

The cooling fan draws reduced power from the engine. Heat exchangers for hydraulic oil, engine coolant and charge-air are optimized for operation at high ambient temperatures. The engine package lowers total cost of ownership and reduces noise for greater operator comfort.



## Heavy-duty drum and center joint

The heavy-duty drum is manufactured with durability in mind. The large diameter drum shell is engineered from high strength steel for longevity and performance. Frames are built with precision and consistency, ensuring a strong structure. The center joint oscillates and articulates for better stability and maneuverability.





# VOLVO ENGINE

Volvo's premium Tier 3 / Stage IIIA engine delivers high torque at low rpm for superior performance and low fuel consumption. It has been carefully designed to reduce emissions and increase efficiency without compromising power. The engine is supported by Volvo's extensive network of dealers around the world.

# Safe and comfortable

The SD110B boasts an industry-leading operator environment – excellent all-round visibility as well as very low noise and vibration levels ensure ultimate comfort and productivity. The adjustable seat, effective heating and cooling system and newly designed operator controls make for an efficient, comfortable work shift.

## Ergonomic operator controls

The new operator control panel has been created for an improved operator experience. The single lever propulsion and vibration control is conveniently located within the operator's zone of comfort and reach. All other controls are ergonomically positioned.



## Comfortable seat

The optional fully adjustable seat slides and turns to enhance visibility and operator safety and comfort.



## HVAC system

The new Volvo cab is equipped with industry-leading climate control to ensure a comfortable environment for the operator, whether heating or air conditioning is required. Elevated air intake and a pressurized cabin help to reduce the amount of dust entering the cab.





# INDUSTRY-LEADING OPERATOR ENVIRONMENT

The ROPS/FOPS certified Volvo cab provides a safe and comfortable working environment with an efficient heating and air conditioning system and all-around visibility from large glazed areas. With floor to ceiling cab glass, the operator has an excellent forward drum view as well as superior rear visibility.

# A productive view

## Industry-leading operator environment

The ROPS/FOPS certified cab provides a safe and comfortable working environment and all-around visibility.

## Ergonomic operator controls

The new operator control panel offers propulsion and vibration controls that are conveniently located on the operator's right hand side.

## HVAC system

The Volvo cab is equipped with industry-leading climate control to ensure a comfortable environment inside the cab.

## CareTrack

CareTrack provides you with reports, alarms, location and service hours for better machine management.

## Superior drum performance

Volvo delivers multiple frequencies, dual amplitude, and optimized centrifugal force – matching the drum's performance to your application.

## Padfoot drum

Volvo's padfoot drum provides high coverage on softer surfaces and applies more pressure on stiffer materials.





### **Comfortable seat**

The optional fully adjustable seat slides and turns to enhance visibility and operator safety and comfort.

### **Volvo engine**

Designed to reduce emissions and increase efficiency, the Volvo engine ensures you have just the right level of power for your operation.

### **ECO mode**

Volvo's ECO mode adjusts the engine speed, offering up to 20% reduced fuel consumption.

### **Great gradeability**

Volvo's improved No Spin Axle and flow divider provide increased traction in difficult applications and slippery surfaces.

### **Easy service access**

Class-leading service access ensures regular maintenance and inspections can be conducted more efficiently for minimal downtime.

# Quick and easy servicing

The SD110B is a robust and durable compactor that provides easy service access for quick regular maintenance checks. Capitalize on quality features that keep your downtime to a minimum and increase the longevity of your machine.

## Customer Support Agreements

The range of Customer Support Agreements offer preventive maintenance, total repairs and a number of uptime services. Volvo uses the latest technology to monitor machine operation and status, giving you advice to increase your profitability. By having a Customer Support Agreement you are in control of your service costs.



## Genuine Volvo Parts

Our attention to detail is what makes us stand out. This proven concept acts as a solid investment in your machine's future. Parts are extensively tested and approved because every part is vital for uptime and performance. Only by using Genuine Volvo Parts, can you be sure that your machine retains the renowned Volvo quality.

## Service Network

In order to respond to your needs faster, a Volvo expert is on their way to your job site from one of our Volvo facilities. With our extensive infrastructure of technicians, workshops and dealers, Volvo has a comprehensive network to fully support you using local knowledge and global experience.





# EASY SERVICE ACCESS

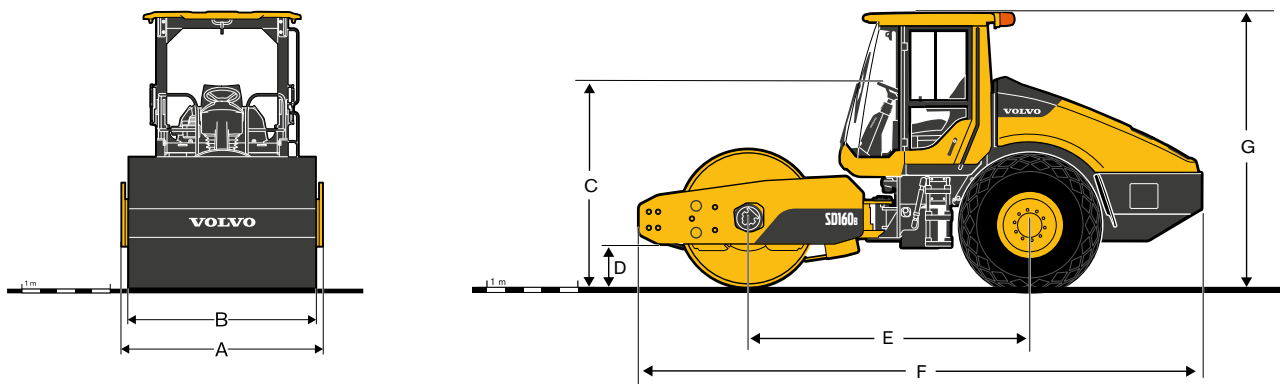
The engine hood lifts up, giving ground level access to the engine compartment. Key service check points are grouped on one side of the compactor to ensure regular maintenance and inspections can be conducted more efficiently with minimal downtime – increasing overall productivity and reliability. The hydraulic pressure test ports are grouped together remotely.

# Specifications

Model			SD110B				
Drum Type			Smooth		Padfoot		
<b>Machine Weights</b>							
Operating Weight (CECE) Folding OROPS w/ Sunroof		kg	lb	10.700	23.589	11.000	24.251
Static Weight @ Drum		kg	lb	5.776	12.734	6.071	13.384
Static Weight @ Tyres		kg	lb	4.924	10.856	4.929	10.867
Shipping Weight		kg	lb	10.589	23.345	10.877	23.980
Operating Weight (CECE) Cab		kg	lb	10.900	24.030	11.200	24.692
Padfoot Shell Kit Weight		kg	lb	1.632	3.598	-	-
<b>Drum</b>							
Width		mm	ft in	2.134	7'0"	2.134	7'0"
Diameter		mm	ft in	1.500	4'11"	1.295	4'3"
Shell Thickness		mm	in	25	0,98	25	0,98
Diameter Over Pad Feet		mm	ft in	-	-	1.500	4'11"
Pad Feet		number of		-	-	102	
Pad Height		mm	in	-	-	74	2,91
Pad Tip Area		cm <sup>2</sup>	in <sup>2</sup>	-	-	135.3	21
<b>Vibration</b>							
Frequency		Hz	vpm	30,8/33,8	1.848/2.028	30,8/33,8	1.848/2.028
Centrifugal Force	High Amp	kN	lbf	258	58.001	258	58.001
	Low Amp	kN	lbf	241	54.179	241	54.179
Nominal Amplitude	High Amp	mm	in	1,94	0,08	1,80	0,07
	Low Amp	mm	in	1,5	0,06	1,4	0,05
<b>Propulsion</b>							
Type		Hydrostatic					
Tires		23.1-26 R3 8PR TL		23.1-26 R1 12PR TL			
Drum Drive		Planetary Gear Box					
<b>Travel Speed</b>							
High		km/h	mph	0-12,6	0-7,83	0-12,1	0-7,52
Low		km/h	mph	0-5,4	0-3,36	0-5,2	0-3,23
<b>Engine</b>							
Make / Model		Volvo D5 Tier 3					
Engine Type		Turbocharged 4-cylinder					
Rated Power @ 2 200 r/min		kW (hp imp)		99 (133)			
<b>Electrical System</b>							
Voltage (Negative ground)		V		24			
Alternator		Ah		80			
Batteries		CCA		2 x 760			
<b>Brakes</b>							
Service		Hydrostatic					
Parking / Secondary		Spring-applied, hydraulically released on drum and axle					
<b>Miscellaneous</b>							
Articulation Angle		°		+/- 38			
Oscillation Angle		°		+/- 15			
Fuel Capacity		l (gal)		198 (52,3)			
Hydraulic Oil Capacity		l (gal)		95 (25,1)			
Gradeability (theoretical)		%		65		55	
<b>Guaranteed Sound Level</b>							
Operator's Ear, acc. to ISO 11203:2009		L <sub>PA</sub> dB		82 (Cab) - 85 (OROPS)		82 (Cab) - 85 (OROPS)	
External, acc. to Directive 2000/14/EC		L <sub>WA</sub> dB		106		106	

## DIMENSIONS

	Unit		Smooth drum		Padfoot drum	
	mm	ft in				
A	mm	ft in	2.286	7'6"	2.286	7'6"
B	mm	ft in	2.134	7'0"	2.134	7'0"
C	mm	ft in	2.290	7'6"	2.290	7'6"
D	mm	ft in	478	1'7"	478	1'7"
E	mm	ft in	3.342	11'0"	3.342	11'0"
F	mm	ft in	5.838	19'2"	5.838	19'2"
G - ROPS Up	mm	ft in	3.179	10'5"	3.179	10'5"
G - ROPS Folded	mm	ft in	2.386	7'10"	2.386	7'10"
G - Cab	mm	ft in	2.999	9'10"	2.999	9'10"
H	mm	ft in	1.500	4'11"	1.500	4'11"



## SELECTION OF VOLVO OPTIONAL EQUIPMENT

Traction Control



Padfoot drum



Eco mode



Diamond tread and traction tires



Bolt on Shell



CareTrack



Not all products are available in all markets. Under our policy of continuous improvement, we reserve the right to change specifications and design without prior notice. The illustrations do not necessarily show the standard version of the machine.

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