

V O L V O



Volvo Single Drum Compactors 7-11.8 t / 15,430-26,000 lb 74-148 hp

SD75B, SD115B

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.



BUILDING TOMORROW

Versatile performance

The new Volvo SD75B and SD115B soil compactors are packed with advanced technology. The drum is configured with ease while the engine controls itself. The compactors adapt to your application and jobsite to provide maximum versatility and performance.

Frequency and amplitude choices

Easily adjust the vibration frequency from the operator console to compensate for changing soil types and conditions. Two frequency settings are standard and for even greater versatility, five frequency option is available. High and low amplitudes can also be selected.

Adaptive power

Adaptive power tailors machine performance by adjusting engine and hydraulic systems to individual job site requirements, providing the exact amount of power needed for increased efficiency. It's designed to run the machine at the optimal level needed for the job.



Application versatility

The machine can be set up in three different configurations and is available with smooth or padfoot drum. 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.

Gradeability

The Volvo traction system provides excellent climbing and traction capabilities in difficult applications, such as steep inclines or slippery surfaces. The system prevents wheel or drum spin, improving gradeability, performance and productivity. For the most demanding applications, the High Traction variant is also available, delivering additional torque to easily climb extreme slopes.





DRUM PERFORMANCE

Volvo's advanced drum control system delivers multiple frequency, dual amplitude, and optimized 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 auto vibration feature also increases ease of operation and productivity.

Power up, fuel down

The perfectly optimised Volvo Tier 4 Final engine delivers high torque at low rpm for superior performance and low fuel consumption. The compactor's engine has been developed to offer greater fuel efficiency, increasing uptime and reducing costs.

Efficient cooling system

The hydraulically-driven fan with variable speed draws power only when needed. Lower fan speeds reduce noise, resulting in greater operator comfort and a lower total cost of ownership.



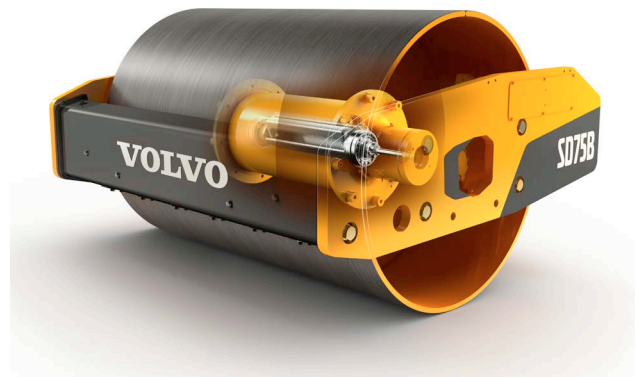
ECO mode

ECO mode is now standard and is always turned on by default. It adjusts the engine speed to match the operation mode and up to a 40% reduction in fuel consumption is achieved with ECO mode.

**Not applicable to SD75B*

Passive regeneration

The new passive regeneration provides continuous and simplified operation. Volvo's passive regeneration cleans the filters automatically during normal operation without any input from the operator or effect on performance.



Eccentric design

The eccentric design delivers more efficiency while using less power. Matching the required performance to suit your application, the eccentric is designed for faster ramp up speeds at lower pressure for increased fuel efficiency.



VOLVO ENGINE

Volvo's premium Tier 4 Final engine delivers high torque at low rpm for superior performance and low fuel consumption. Designed to lower emissions and increase efficiency without compromising power.

Packed with intelligence

Compact Assist

Achieve optimum compaction results, with less effort, thanks to the suite of Compact Assist apps – all powered by the 10" Volvo Co-Pilot touchscreen.

ECO mode

ECO mode can be selected by the operator. This feature adjusts the engine speed to match the operation mode.

Drum performance

Volvo's advanced drum control system delivers multiple frequencies, dual amplitude, and optimized centrifugal force.

Heavy-duty drum

The heavy-duty drum, center joint and front frame components are designed and manufactured with durability in mind.

Operator environment

The ROPS/FOPS certified cab or open operator's area provides a safe and comfortable working environment with all-around visibility.

High quality components

The compactor features the highest quality components, clever routing and clean design.



Volvo engine

The perfectly optimised Volvo Tier 4F engine delivers high torque at low rpm for superior performance and low fuel consumption.

Passive regeneration

Passive regeneration functions automatically during operation without input from the operator or effect on machine performance.

Service access

The electric engine hood lifts up giving extensive ground level access to the engine compartment.

ActiveCare Direct

Maximize machine uptime and reduce repair costs with ActiveCare Direct, with 24-7/365 machine monitoring as well as customer reports.

Gradeability

The Volvo traction system provides excellent climbing and traction capabilities in difficult applications. For the most demanding applications, the High Traction variant is also available.



Compact Assist

Achieve optimum compaction results with less effort thanks to the suite of Compact Assist tools, powered by the 10" Volvo Co-Pilot touchscreen. From simple compaction measurements, right through to complete tracking of both the coverage and compaction of the material, Compact Assist for Volvo Soil Compactors comes available in a number of packages to match the needs of your business.

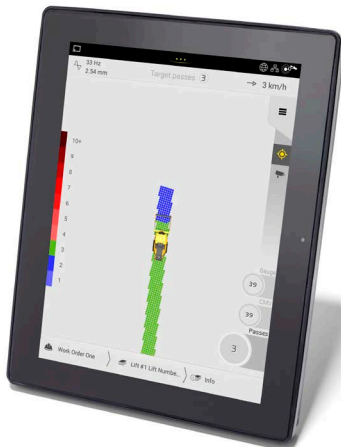
Compact Assist Lite

Take your first steps towards improving the quality of your work with Compact Assist Lite. It integrates a compaction gauge and rearview camera within the Volvo Co-Pilot monitor, allowing the operator to track the progress of current and recently completed compaction, and giving them a clear view behind the machine. Upgrading to Compact Assist Start or Compact Assist in the future is easy.



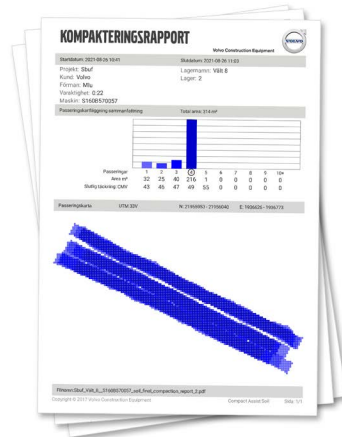
Compact Assist Start

This package includes the functionality of Lite, plus the ability to see completed work across the entire jobsite. It uses GPS data to provide the operator with a clear map of passes and Compaction Measurement Value (CMV).



Compact Assist

This package includes all the functionality of Start, plus high accuracy location and data recording. It enables the creation of reports on the finished job and provides access to extensive detail on the performance of the roller, without the need for any post processing.

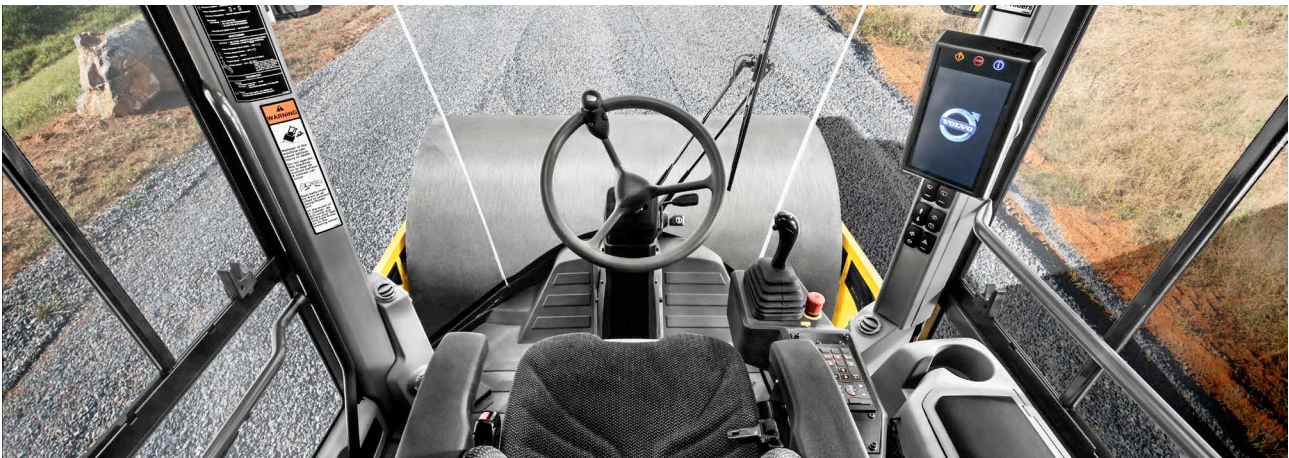


Control in comfort

Step up to the Volvo designed cab and experience industry-leading low noise levels, ultimate comfort and a productive working environment. Safe, spacious and with improved all-around visibility, operators will work efficiently with less fatigue in a Volvo compactor.

Operator environment

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



Climate control system

The cab is equipped with industry-leading climate control to ensure a comfortable environment inside the cab, whether heating or air conditioning is required. High air intake and positive cabin pressure helps to reduce dust from entering the cab.



Fully adjustable seat

The fully adjustable seat rotates and slides to enhance front and rear visibility for increased safety and comfort.



Robust and reliable

Volvo Construction Equipment produces the most robust and durable compactors on the market. The SD75B and SD115B machines provide easy service access for increased uptime and quick maintenance.

Service access

The cab tilt is standard, providing access to all hydraulic components. For class-leading access, the electric engine hood lifts up giving extensive ground level access to the engine compartment. Maintenance and inspections can be conducted more efficiently with minimal downtime – increasing overall productivity and reliability.



Sealed electronics

All components and electronics have been moved into the cab and mounted on the rear wall, protecting them from the elements. Fuses are accessible behind the fuse panel for improved accessibility.

ActiveCare Direct

Maximize machine uptime and reduce repair costs with ActiveCare Direct. ActiveCare Direct is a predictive and preventive maintenance service that provides 24-7/365 machine monitoring as well as customer reports.



Heavy-duty drum

The heavy-duty drum, centre joint and front frame components are designed and manufactured with durability in mind. The thick steel drum shell is engineered for longevity and performance. Frames are robotically welded and built from high quality steel with precise and consistent welds guaranteeing a strong structure.



HIGH QUALITY COMPONENTS

The compactor features the highest quality components, clever routing and clean design. The engine, hydraulics and electronic components work in harmony to deliver superior performance and increase machine life.

Specifications

Model			SD75B				SD115B			
Drum type			Smooth		Padfoot		Smooth		Padfoot	
Machine Weights (inc. ROPS & inside scraper)										
Operating Weight (CECE)	kg	lb	7,192	15,850	7,368	16,245	11,643	25,615	11,800	25,960
Static Weight @ Drum	kg	lb	3,610	8,025	3,786	8,350	6,243	13,735	6,400	14,080
Static Weight @ Tyres	kg	lb	3,582	7,900	3,582	7,900	5,400	11,880	5,400	11,880
Shipping Weight	kg	lb	7,081	15,610	7,257	1,600	11,513	25,329	11,670	25,674
Drum										
Width	mm	in	1,676	66	1,676	66	2,134	84	2,134	84
Diameter	mm	in	1,215	48	1,207	48	1,500	59	1,295	51
Shell Thickness	mm	in	20	1	16	1	25	1	25	1
Diameter Over Pad Feet	mm	in	-	-	1,354	54	-	-	1,549	61
Pad Feet	number of		-	-	84		-	-	112	
Pad Height	mm	in	-	-	75	3	-	-	127	5
Pad Tip Area	cm ²	in ²	-	-	135.3	21	-	-	135.3	21
Vibration										
Frequency	Hz	vpm	30.8/33.8	1,850/2,025	30.8/33.8	1,850/2,025	30.8/33.8	1,850/2,025	30.8/33.8	1,850/2,025
Optional 5 Frequency	High Amp	Hz	vpm	23.3-30.8	1,398-1,850	23.3-30.8	1,398-1,850	23.3-30.8	1,398-1,850	23.3-30.8
Centrifugal Force	High Amp	kN	lb	139	31,250	139	31,250	253	56,900	253
	Low Amp	kN	lb	121	27,200	121	27,200	214	48,100	214
Nominal Amplitude	High Amp	mm	in	1.94	0.08	1.71	0.06	1.92	0.08	1.82
	Low Amp	mm	in	1.41	0.06	1.25	0.05	1.5	0.06	1.42
Propulsion										
Type	Hydrostatic									
Tyre	14.9-24 R3 6PR TT				14.9-24 R1 6PR TL		23.1-26 R3 8PR TT		23.1-26 R1 8PR TL	
Drum Drive	LSHT Motor					Planetary Gear Box				
Travel Speed										
High	km/h	mph	12.3	7.6	13	8.1	10	6.2	10	6.2
Low	km/h	mph	6.5	4.0	7.5	4.7	4.5	2.8	4.3	2.7
Engine										
Make / Model	Volvo D3.8 Tier 4 F					Volvo D4 Tier 4 F				
Engine Type	Turbocharged 4 cylinder					Turbocharged 4-cylinder				
Rated Power @ 2 200 rpm	kW	hp	55.4		74		110		148	
Electrical System										
Voltage (Negative ground)	Volt		12				24			
Alternator	Ah		100				80			
Batteries	CCA		1 x 1,000				2 x 1,000			
Brakes										
Service	Hydrostatic									
Parking / Secondary	Spring-applied, hydraulically released on drum & axle									
Miscellaneous										
Articulation Angle	°		+/- 38				+/- 35			
Oscillation Angle	°		+/- 12				+/- 12			
Inside turning radius	mm	in	3,249	128	3,249	128	3,800	149.6	3,800	149.6
DEF Tank Capacity	l	gal	-		-		20		5	
Fuel Capacity	l	gal	115		30		165		43.5	
Hydraulic Oil Capacity	l	gal	60		16		75		20	
Guaranteed Sound Level										
Operator's Ear, acc. to ISO 11203:2009	LpA dB(A)		74 (Cab) - 87 (Canopy)				75 (Cab) - 87 (Canopy)			
External, acc. to Directive 2000/14/EC	LwA dB(A)		104				105			

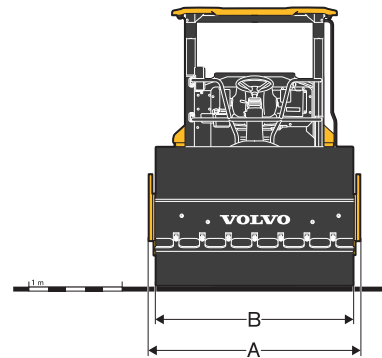
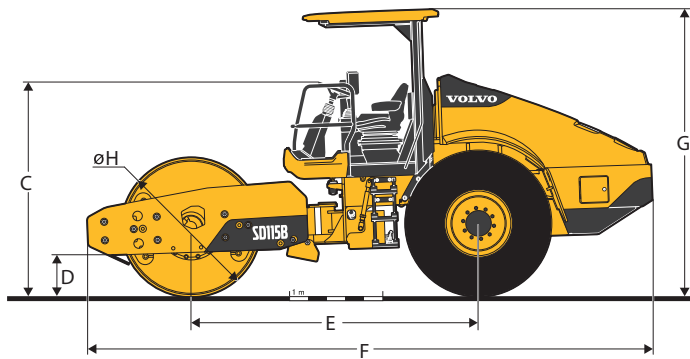
GRADEABILITY

Model			SD75B		SD115B	
Drum type			Smooth		Padfoot	
No traction enhancement			Moderate			
With flow divider option			High			
With High Traction variant (includes flow divider and high torque axle options)			-		Extreme	

Moderate applications include highway construction, finish grades, and slopes up to 30%.

High applications include trenching, infrastructure projects, and slopes ranging from 25% to 40%.

Extreme applications include thick lifts of loose material, use of leveling blades, and slopes over 30% such as landfills.



DIMENSIONS

Model	SD75B				SD115B			
	Smooth drum		Padfoot drum		Smooth drum		Padfoot drum	
	mm	in	mm	in	mm	in	mm	in
A	1,830	72	1,830	72	2,286	90	2,286	90
B	1,676	66	1,676	66	2,134	84	2,134	84
C	2,183	86	2,252	88.7	2,269	89.3	2,288	90.1
D	383	15.1	452	17.8	483	19	498	19.6
E	2,677	105.4	2,677	105.4	3,095	121.9	3,095	121.9
F	5,044	198.6	5,044	198.6	6,091	239.8	6,091	239.8
G	2,924	115.1	2,993	117.8	3,000	118.1	3,020	118.9
H	1,215	47.8	1,354	53.3	1,500	59.1	1,549	61

Equipment

SELECTION OF VOLVO OPTIONAL EQUIPMENT

Tires



Padfoot drum



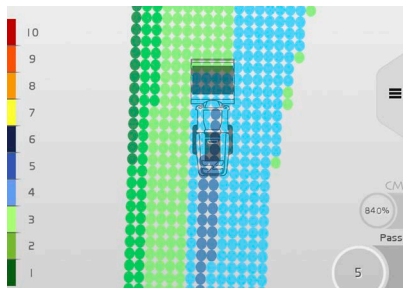
Blade



Work lights



Compact Assist



High Traction variant



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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