

Volvo Construction Equipment Building Tomorrow

# SD75B, SD115B, SD135B, SD160B

Volvo Single Drum Compactors 7.1-16.5 t 55-110 kW



## 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.













Volvo Trucks

Renault Trucks



VOLVO



























Volvo Penta

Volvo Financial Services

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Mack Trucks

UD Trucks

Volvo Buses

Volvo Construction Equipment

## Versatile performance

Volvo B-series 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.

\*Not applicable to SD160B



#### 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.

#### Drum performance

Volvo's advanced drum control system delivers multiple frequencies, 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.

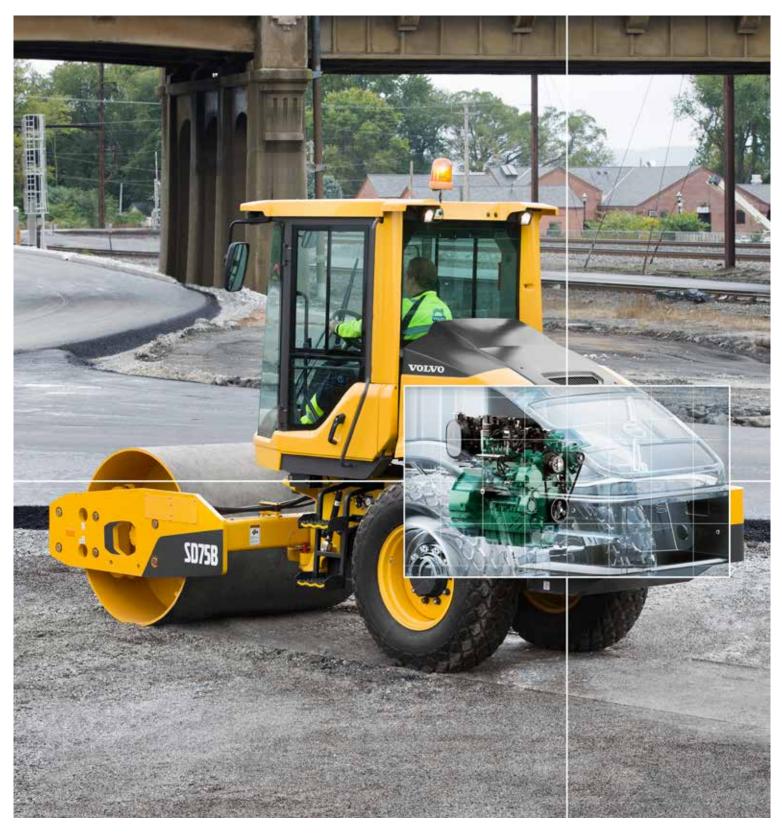


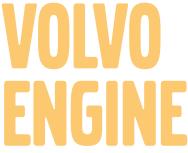




# HIGH TRACTION VARIANT

The Volvo traction system provides excellent climbing and traction capabilities in difficult applications. For the most demanding applications, the High Traction variant is available, delivering additional torque to easily climb extreme slopes. Also included in this variant are the high capacity fuel tank and 5 frequencies feature, adding further productivity to your machine.





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

## Power up, fuel down

The perfectly optimized Volvo Stage V engine delivers high torque at low rpm for superior performance and low fuel consumption. The 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 always on by default. It adjusts the engine speed to match the operation mode and achieves up to a 40% reduction in fuel consumption. \**Not applicable to SD75B, SD160B* 

#### **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.



## **Packed with intelligence**

## **COMPACT ASSIST**

The Compact Assist option improves compaction efficiency by preventing unnecessary passes and identifying areas that might not have achieved ideal compaction.

## ECO mode

ECO mode is now standard and always on by default. It 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

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

## Frequency and amplitude choices

Easily adjust the vibration frequency from the operator console to compensate for changing soil types and conditions.

## **HIGH QUALITY COMPONENTS**

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

## **VOLVO ENGINE**

VOLVO

The perfectly optimized Volvo Stage V 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.

## CareTrack

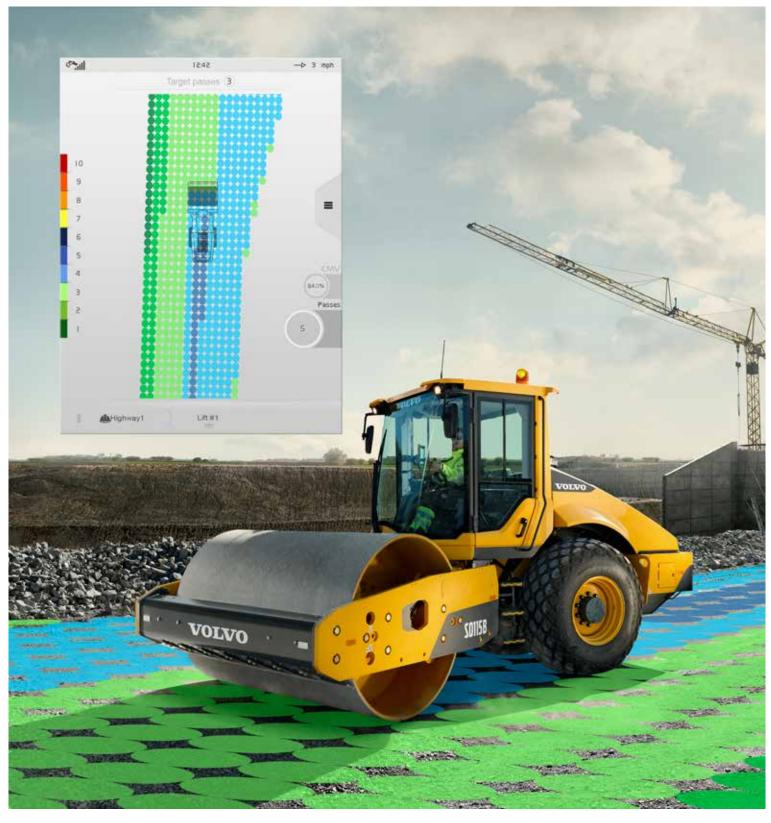
CareTrack provides you with reports, alarms, location and service hours for better machine management.

## Impact meter and compaction gauge

Integrated into the display, the impact meter ensures you travel at the right speed for target compaction. The compaction gauge displays the CMV, an estimated level of soil stiffness.

## **HIGH TRACTION VARIANT**

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





Compact Assist for soil can display both pass mapping and CMV (compaction meter value), an estimated value for soil stiffness. This option improves compaction efficiency by preventing unnecessary passes and identifying areas that might not have achieved ideal compaction.

## **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.

## Fully adjustable seat

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



## **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.



## **Operator display**

The new high-tech color operator display presents operational information and key diagnostics, reducing the need for regular physical checks. Easy to see in direct sunlight, further functions include service interval information and machine operating conditions. The control keypad is conveniently located on the operator's side console and controls are grouped together for comfort and efficiency.



#### Impact meter and compaction gauge

Integrated into the display, the impact meter provides the operator with the impacts per meter, helping ensure they travel at the optimal speed for both target compaction and a uniform, smooth finish. The compaction gauge displays the CMV, an estimated value of soil stiffness, which helps to indicate when compaction has been achieved.

## **Robust and reliable**

Volvo Construction Equipment produces the most robust and durable compactors on the market. The B-series soil compactors 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.

## CareTrack

CareTrack is the state-of-the-art telematics system designed for Volvo Construction Equipment. Stay informed, receive reports, alarms and information such as fuel status, machine location and hours so you can plan your service more efficiently. Stay ahead of unscheduled downtime and check that your machine is being operated efficiently.



## Heavy-duty

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.





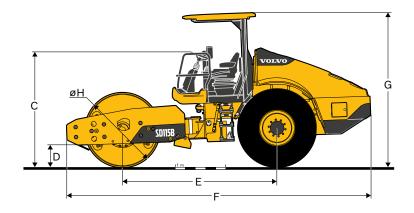
# HIGH QUALITY COMPONENTS

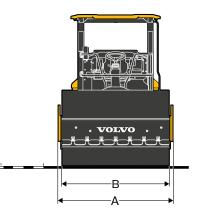
The compactor features the highest quality components, clever routing and clean design. The engine, hydraulics and electronic components work in harmony to deliver superior performance and increase machine life.

## **Specifications**

Model			SD	75B	SD	15B	SD1	35B	SD	160B	
Drum type			Smooth	Padfoot	Smooth	Padfoot	Smooth	Padfoot	Smooth	Padfoot	
Machine Weights (inc. o	ah and iu	nside scrar		i uuioot	Sinootii	i uuioot	omootii	i uuloot	omootai	i duitott	
Operating Weight (CECE		kg	7 192	7 368	11 743	11 900	12 600	13 300	16 691	17 392	
Static Weight @ Drum	-/	kg	3 610	3 786	6 293	6 450	7 150	7 850	10 976	11 677	
		kg	3 582	3 582	5 450	5 450	5 450	5 450	5 715	5 715	
		-	7 081	7 257	11 613	11 770	12 470	13 170	16 561	17 262	
Shipping Weight		kg	7 001	1 201	11013	11770	12 470	13 170	10 201	17 202	
Drum			1.070	1.070	0.10.4	0.10.4	0.10.4	0.10.4	0.10.4	0.10.4	
Width		mm	1 676	1 676	2 134	2 134	2 134	2 134	2 134	2 134	
Diameter		mm	1 215	1207	1500	1 2 9 5	1 510	1 510	1 510	1 510	
Shell Thickness		mm	20	16	25	25	30	30	30	30	
Diameter Over Pad Feet		mm	-	1354	-	1 5 4 9	-	1764	-	1764	
Pad Feet		number of	-	84	-	112	-	120	-	120	
Pad Height		mm	-	75	-	127	-	127	-	127	
Pad Tip Area		cm <sup>2</sup>	-	125	-	135.3	-	135.3	-	135.3	
Vibration											
Frequency		Hz	30.8/33.8	30.8/33.8	30.8/33.8	30.8/33.8	30.8/33.8	30.8/33.9	23.3- 31.3 (5x frequency)	23.3- 31.3 (5x frequency)	
Optional 5 Frequency ( High Amp )		Hz	23.3 - 30.8	23.3 - 30.8	23.3 - 30.8	23.3 - 30.8	23.3 - 30.8	23.3 - 30.8	-	-	
Contrifugal Error	ligh Amp	kN	139	139	258	258	280	280	291	291	
Centrifugal Force	Low Amp	kN	121	121	242	242	249	249	249	249	
	ligh Amp	mm	1.94	1.71	1.92	1.82	1.87	1.6	1.86	1.55	
Nominal Amplitude	Low Amp	mm	1.41	1.25	1.5	1.42	1.38	1.17	1.37	1.15	
Propulsion											
Туре						Hydro	ostatic				
Tires			14.9-24 R3 6PR TT	14.9-24 R1 6PR TL	23.1-26 R3 8PR TT	23.1-26 R1 8PR TL	23.1-26 R3 8PR TT	23.1-26 R1 8PR TL	23.1-26 R3 8PR TT	23.1-26 R1 8PR TL	
Drum Drive			LSHT	LSHT Motor Planetary Gear Box							
Travel Speed											
	High	km/h	0-12.3	0-12.9	0-10.1	0-10.0	0-9.9	0-10.4	0-11.5	0-12.5	
	Low	, km/h	0-6.5	0-7.5	0-4.4	0-4.3	0-4.2	0-4.7	0-4.9	0-5.3	
Engine	2011		0 0.0	0 110			0 112			0 0.0	
Make / Model			Volvo D3.	8 Stage V			Volvo D4	1 Stage V			
Engine Type		Turbocharge	0	Volvo D4 Stage V Turbocharged 4-cylinder							
Rated Power @ 2 200 r/	min	kW	55		110						
Electrical System		r.vv	00	.+			•	10			
-	4 <i>)</i>	Volt	4	<u>า</u>							
Voltage (Negative ground	u)				80					120	
Alternator		Ah				20					
Batteries		CCA	1 x 1	000			2 x 1	000			
Brakes								-			
Service			Hydrostatic								
Parking / Secondary					Spring-applie	d, hydraulicall	y released on	drum and axl	e		
Miscellaneous								-	-		
Articulation Angle		0	+/-					- 35 - 12			
Oscillation Angle °		+/- 12									
nside turning radius mm		3 249									
Fuel Capacity		L	11	5	165						
Hydraulic Oil Capacity	draulic Oil Capacity L 6		0	75 75							
Guaranteed Sound Leve	el										
Operator's Ear, acc. to ISO 11203:2009		L <sub>pA</sub> dB	74 (Cab) - 85 (Canopy)		75 (Cab) - 87 (Canopy)				79 (Cab)		
External, acc. to Directive 2000/14	4/EC	L <sub>WA</sub> dB	10	104 1			)5			101	
GRADEABILITY											
Model				SI	D75B	SD115		SD135B	5	D160B	
Drum type				Smooth	Padfoot	Smooth P	adfoot Sm	nooth Padf	oot Smoo	th Padfoot	
No traction enhancement					Moderate					-	
With flow divider option					High -				-		
With High Traction variant (includes flow fivider and high torque axle options)					-		Extreme			High	

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											
		SD75B		SD1	115B	SD135B		SD160B			
Unit		Smooth drum	Padfoot drum								
А	mm	1 830	1830	2 286	2 286	2 286	2 286	2 406	2 406		
В	mm	1 676	1 676	2 134	2 134	2 134	2 134	2 134	2 134		
С	mm	2 183	2 252	2 269	2 288	2 269	2 288	2 359	2 311		
D	mm	383	452	483	498	483	609	483	609		
E	mm	2 677	2 677	3 095	3 095	3 095	3 095	3 095	3 095		
F	mm	5 044	5 044	6 091	6 091	6 091	6 091	6 148	6 148		
G	mm	2 924	2 993	3 000	3 020	3 000	3 020	3 090	3 020		
н	mm	1 215	1354	1 500	1 549	1 510	1 764	1 510	1764		

## Equipment

## SELECTION OF VOLVO OPTIONAL EQUIPMENT

Tires



Work lights



Padfoot drum



**Compaction gauge** 



Blade



**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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