SD75B, SD115B, SD135B, SD160B

Volvo Single Drum Compactors 7.1-16.5 t 55-123 kW



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.

Multiple engine options

For markets where ultra low sulfur diesel fuels are not readily available, the SD115B-SD160B can be equipped with an optional Stage IIIA engine. For markets with ultra low sulfur fuel, a Stage V engine is available.



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

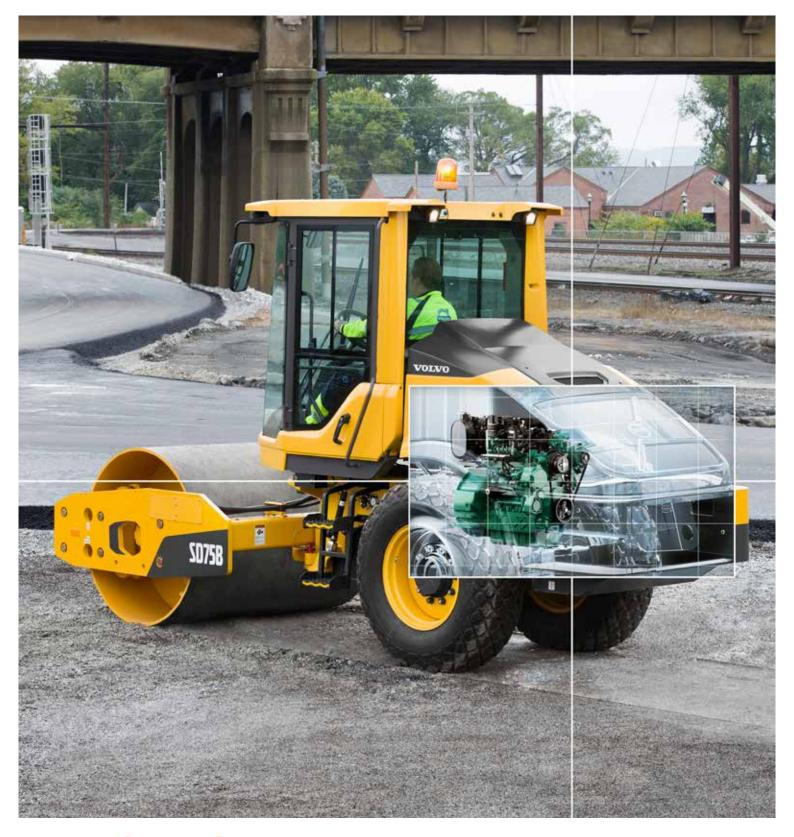
Volvo's advanced drum control system delivers multiple frequencies, dual amplitude, and optimized centrifugal force — matching the drum's performance to your application. The choice of high or low amplitude is easily selected, giving you the flexibility to adjust the drum's dynamic force based on the 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 is the 5 frequencies feature, adding further productivity to your machine.



VOLVO Engine

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. An optional Stage IIIA engine is also available.

Power up, fuel down

The perfectly optimized Volvo 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

Volvo's passive regeneration provides continuous and simplified operation. The filters are cleaned automatically during operation without any input from the operator or effect on performance. *Not applicable to optional Stage IIIA engine



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.

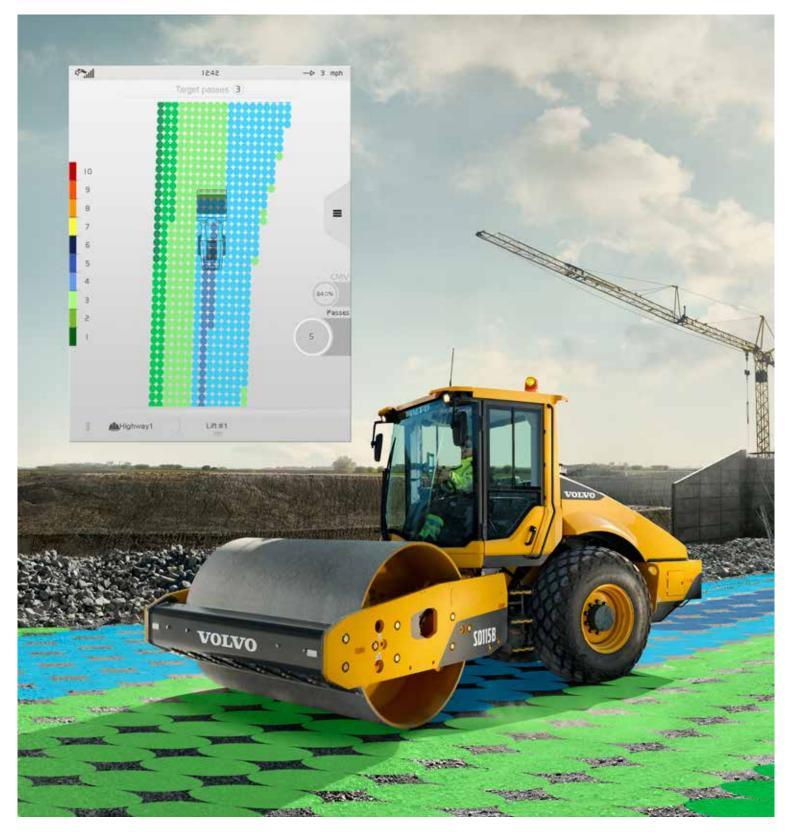
Frequency and amplitude choices

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.





COMPACT ASSIST

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 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 helps the operator 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

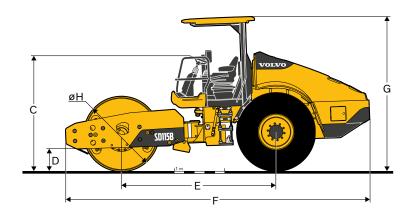
Stage IIIA models			SD1	15B	SD1	35B	SD160B			
Drum type			Smooth Padfoot		Smooth Padfoot		Smooth	Padfoot		
Machine Weig	hts (inc. cab an	d inside scr	aper)							
Operating Weight (CECE)		kg	11 315	11 475	12 175	12 875	16 382	17 085		
Static Weight @ Drum		kg	6 000	6 160	6 860	7 560	10 802	11 505		
Static Weight @ Tyres		kg	5 315	5 315	5 315	5 315	5 580	5 580		
Shipping Weig		kg	11 083	11 243	11 943	12 643	16 150	16 853		
Drum	,									
Width		mm	2 134	2 134	2 134	2 134	2 134	2 134		
Diameter		mm	1500	1295	1 510	1 510	1 510	1 510		
Shell Thicknes	S	mm	25	25	30	30	30	30		
Diameter Over	Pad Feet	mm	- 1549		_	1764	_	1764		
Pad Feet		number of	-	112	-	120	-	120		
Pad Height		mm	-	127	_	127	_	127		
Pad Tip Area		cm ²	-	135.3	-	135.3	-	135.3		
Vibration										
Frequency		Hz	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 Freq	uency (High Amp) Hz	23.3 - 30.8	23.3 - 30.8	23.3 - 30.8	23.3 - 30.8	-	-		
Centrifugal	High Amp	kN	258	258	281	281	291	291		
Force	Low Amp	kN	242	242	249	249	249	249		
Nominal	High Amp	mm	1.92	1.82	1.87	1.6	1.86	1.55		
Amplitude	Low Amp	mm	1.5	1.42	1.38	1.17	1.37	1.15		
Propulsion										
Туре			Hydrostatic							
Tires			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 8PF TL		
Drum Drive					Planetary	Gear Box				
Travel Speed										
	High	km/h	0-8.8	0-9.0	0-8.8	0-9.5	0-11.5	0-12.5		
	Low	km/h	0-4.2	0-4.2	0-4.2	0-4.7	0-4.5	0-4.8		
Optional Engir	ne									
Make / Model			Volvo D5E UN R96 I (Similar to Stage IIIA/Tier 3)							
Engine Type					Turbocharge	d 4-cylinder				
Rated Power @ 2000 r/min k\		kW	123							
Electrical Syst	em									
Voltage (Nega	tive ground)	Volt	24							
Alternator		Ah	80							
Batteries		CCA	2 x 1 000							
Brakes										
Service			Hydrostatic							
Parking / Seco	ondary		Spring-applied, hydraulically released on drum and axle							
Miscellaneous	i									
Articulation Angle °		o	17-33							
Oscillation Angle °			+/- 12							
Inside turning radius mm		3 800								
Fuel Capacity L		251								
Hydraulic Oil C	Capacity	L			7	5				
Guaranteed So	ound Level									
Operator's Ear, acc. to ISO LpA 11203:2009 dB				75 (Cab) - 8	79 (Cab)					
External, acc. t 2000/14/EC	to Directive	L _{WA} dB	105 105							

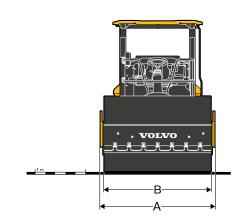
Stage V models			SD75B		SD115B		SD135B		SD160B		
Drum type			Smooth	Padfoot	Smooth	Padfoot	Smooth	Padfoot	Smooth	Padfoot	
Machine Weigh	ts (inc. cab and	d inside sc	raper)				l.	ı			
Operating Weight (CECE) kg			7 192	7 368	11 743	11 900	12 600	13 300	16 691	17 392	
Static Weight @) Drum	kg	3 610	3 786	6 293	6 450	7 150	7 850	10 976	11 677	
Static Weight @ Tyres kg		3 582	3 582	5 450	5 450	5 450	5 450	5 715	5 715		
Shipping Weigh		kg	7 081	7 257	11 613	11 770	12 470	13 170	16 561	17 262	
Drum											
Width		mm	1 676	1 676	2 134	2 134	2 134	2 134	2 134	2 134	
Diameter		mm	1 215	1 207	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 F	Pad Feet	mm	_	1 354	-	1549	_	1764	_	1 764	
Pad Feet		number of	_	84	_	112	_	120	_	120	
Pad Height		mm	_	75	_	127	_	127	_	127	
Pad Tip Area		cm ²	_	135.3	_	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 Freque	ency (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	-	-	
Centrifugal	High Amp	kN	139	139	258	258	281	281	291	291	
Force	Low Amp	kN	121	121	242	242	249	249	249	249	
Nominal	High Amp	mm	1.94	1.71	1.92	1.82	1.87	1.6	1.86	1.55	
Amplitude	Low Amp	mm	1.41	1.25	1.5	1.42	1.38	1.17	1.37	1.15	
Propulsion											
Туре			Hydrostatic								
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 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							,	,			
Make / Model			Volvo D3.8 Stage V								
Engine Type			Turbocharged 4 cylinder								
Rated Power @	2 200 r/min	kW	55.4 110					10			
Electrical Syste	m		12 24								
Voltage (Negati	ve ground)	Volt	1.	2							
Alternator		Ah	100			8	120				
Batteries		CCA	1x1000 2x1000								
Brakes											
Service			Hydrostatic								
Parking / Secon	dary		Spring-applied, hydraulically released on drum and axle								
Miscellaneous											
Articulation Ang	le	o	+/-	38				35			
Oscillation Angle °		+/- 12		+/- 12							
Inside turning radius mm		3 249		3 800							
DEF Tank Capacity I/gal		-		20/5							
Fuel Capacity L		115		165							
Hydraulic Oil Capacity L		60		75							
Guaranteed Sou											
		74 (Cab) - 87 (Canopy)		75 (Cab) - 87 (Canopy)				79 (Cab)			
External, acc. to Directive L _{WA} 2000/14/EC dB		10)4	105		5		105			

Specifications

GRADEABILITY										
Model	SD75B		SD115B		SD135B		SD160B			
Drum type	Smooth	Padfoot	Smooth	Padfoot	Smooth	Padfoot	Smooth	Padfoot		
No traction enhancement	Moderate						-			
With flow divider option	High						-			
With High Traction variant (includes flow divider 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										
		SD.	75B	SD1	15B	SD1	35B	SD160B		
Unit		Smooth drum	Padfoot drum							
Α	mm	1830	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	
Е	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	1 354	1 500	1 549	1 510	1764	1 510	1764	

Equipment

SELECTION OF VOLVO OPTIONAL EQUIPMENT

Tires



Padfoot drum



Blade



Work lights



Compaction gauge



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.

