



Volvo Construction Equipment

SD160, SD190, SD200

VOLVO SINGLE DRUM COMPACTORS 16-20.6 t 129-153 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



Mack Trucks



UD Trucks



Volvo Buses



Volvo Construction Equipment



Volvo Penta



Volvo Financial Services



Centrifugal force

The combination of high centrifugal force and heavy drum weight facilitates excellent compaction – allowing you to achieve material target density in fewer passes.

Powered to perform.

Volvo SD160, SD190 and SD200 are designed to deliver superior compaction. A choice of amplitude, variable frequencies, centrifugal force and heavy drum weight all combine to deliver high density levels in less time. Experience quality compaction at its best with Volvo.

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 gradability, performance and productivity.



Padfoot shell

With minimal tools and equipment, the compactor is quickly and easily converted from smooth to padfoot drum by clamping on a padfoot shell. This allows the machine to work in different applications and increases versatility.

*Available on SD160 and SD190



Frequency choices

Easily adjust the vibration frequency from the operator console to compensate for changing soil types and conditions – increasing productivity and performance. Two frequency settings are standard and for even greater versatility, five choices are optional.



Drum forces

Whether you're compacting thin soil layers or thick lifts, experience superior results in all applications and material depths by simply flipping a switch and selecting high or low amplitude.

Packed with performance.



Frequency choices

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



Visibility

360° visibility provides maximum safety. The machine's frame and hood have been designed to provide a superior rear view.



Centrifugal force

High centrifugal force and heavy drum weight facilitate excellent compaction and target density in fewer passes.



Drum forces

Simply select high or low amplitude depending on the application and material depth.





Comfortable cab

The ROPS/FOPS certified cab provides a safe and comfortable working environment.

Serviceability

Key service check points are grouped on one side of the compactor to ensure regular maintenance is straightforward and uptime is maximized.

Gradeability

The Volvo traction system provides excellent climbing and traction capabilities in difficult applications such as steep inclines or slippery surfaces.



Visibility

360° visibility provides maximum safety. The machine's frame and hood have been designed to provide a superior all around view with 1 m x 1 m visibility.

The Volvo experience.

Step inside the Volvo cab and experience low noise levels, comfort and a productive working environment. Safe, spacious and with excellent all-around visibility, operators will work efficiently with less fatigue in a Volvo compactor. See more and do more in comfort with Volvo.



Comfortable cab

The spacious cab offers low noise levels. The moulded roof, wall segments and large surfaces are made of soft, noiseabsorbing material. Shock absorbing cab mounts reduce vibration and noise levels for increased comfort.

ECO mode

Operate in smart power mode for up to 17% reduction in fuel consumption. This efficient mode significantly reduces engine noise levels and emissions without impacting compaction performance. The operator easily switches between modes via a switch on the control panel.

*Available on the SD160



Adjustable seat

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



CompAnalyzer

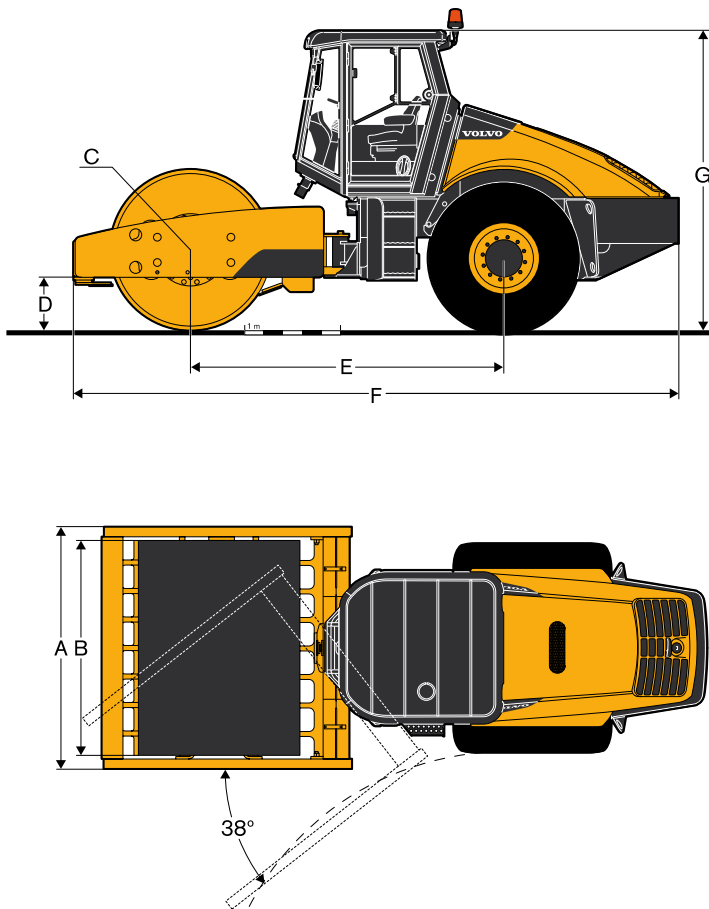
Compaction Analyzer continuously measures compaction efficiency, while recording and clearly displaying it.

Specifications.

Model	SD160		SD190*	SD200			
	Smooth drum	Padfoot drum	Smooth drum	Smooth drum	Padfoot drum		
Machine Weight (w/ ROPS / FOPS)							
*(SD190 incl. cabin and inside scraper)							
Operating Weight (CECE)	kg	16 199	16 489	19 645	20 643	20 328	
Static Weight @ Drum	kg	11 093	11 383	12 725	13 723	13 408	
Static Weight @ Tyres	kg	5 106	5 106	6 920	6 920	6 920	
Shipping Weight	kg	16 062	16 352	19 509	20 506	20 191	
Machine Dimensions							
Length	mm	5 998	5 998	6 280	6 280	6 280	
Width	mm	2 456	2 456	2 536	2 536	2 536	
Height top of ROPS (Cabin)	mm	3 112	3 180	3 076	3 112	3 180	
Wheelbase	mm	3 109	3 109	3 215	3 215	3 215	
Curb Clearance	mm	528	635	443	468	547	
Inside Turning Radius	mm	3 463	3 463	3 463	3 463	3 463	
Drum							
Width	mm	2 134	2 134	2 134	2 134	2 134	
Diameter	mm	1 600	1 510	1 600	1 650	1 620	
Shell Thickness	mm	35	30	35	40	25	
Diameter Over Pad Feet	mm	-	1 764	-	-	1 875	
Number Of Pad Feet		-	120	-	-	136	
Pad Height	mm	-	127	-	-	127	
Pad Tip Area	cm ²	-	125	-	-	125	
Vibration							
Frequency	High Ampl	Hz	23.3 - 30.8	22.5 - 27.5	23.3 - 30.8	23.3 - 30.8	22.5 - 28.3
	Low Ampl	Hz	24.2 - 33.8	24.2 - 33.8	23.3 - 30.8	23.3 - 30.8	23.3 - 30.8
Centrifugal Force	High Ampl	kN	339	339	339	368	359
	Low Ampl	kN	264	257	221	239	273
Nominal Amplitude	High	mm	1.97	2.21	1.97	1.76	1.99
	Low	mm	1.28	1.68	1.28	1.14	1.51
Propulsion							
System Type		Hydrostatic 2-speed motor, planetary axle with No-Spin® differential, 2-speed drum drive motor into planetary gear reduction					
Tire Size		23.1 x 26 - 8PR R3	23.1 x 26 - 8PR R1	23.1 x 26 - 10PR R3	23.1 x 26 - 10PR R3	23.1 x 26 - 10PR R1	
Travel Speed	High	km/h	0 - 12.4	0 - 11.8	0 - 11.0	0 - 11.5	0 - 11.9
	Low	km/h	0 - 4.5	0 - 4.8	0 - 4.0	0 - 4.0	0 - 4.1
Engine							
Make		Cummins					
Model		QSB6.7 Tier 3					
Type		Turbocharged and charge air-cooled 6-cylinder					
Rated Power	kW (hp)	129 (173) @ 2 200 min		151 (203) @ 2 000 rpm		153 (205) @ 2 000 min	
Miscellaneous							
Articulation Angle		+/- 38°	+/- 38°	± 38°	+/- 38°	+/- 38°	
Oscillation Angle		+/- 16°	+/- 16°	+/- 16°	+/- 16°	+/- 16°	
Fuel Capacity	l	267	267	267	267	267	
Hydraulic Oil Capacity	l	104	104	104	104	104	
Gradeability		70%	60%	56%	58%	52%	

Product improvement is a continuing goal at Volvo. Designs and specifications are subject to change without notice or obligation.

Equipment.



Dimensions

		Smooth drum	Padfoot drum
SD160			
A	Machine Width	mm 2 406	2 406
B	Drum Width	mm 2 134	2 134
C	Rolling/Drum Radius	mm 800	876
D	Curb Clearance	mm 528	604
E	"Wheel" Base	mm 3 108	3 108
F	Overall Length	mm 5 998	5 998
G	Height with Cab	mm 3 116	3 116
SD190			
A	Machine Width	mm 2 486	
B	Drum Width	mm 2 134	
C	Rolling/Drum Radius	mm 800	
D	Curb Clearance	mm 443	
E	"Wheel" Base	mm 3 214	
F	Overall Length	mm 6 280	
G	Height with Cab	mm 3 116	
SD200			
A	Machine Width	mm 2 486	2 486
B	Drum Width	mm 2 183	2 183
C	Rolling/Drum Radius	mm 825	938
D	Curb Clearance	mm 468	547
E	"Wheel" Base	mm 3 214	3 214
F	Overall Length	mm 6 280	6 280
G	Height with Cab	mm 3 120	3 180

SELECTION OF VOLVO OPTIONAL EQUIPMENT

Padfoot drum

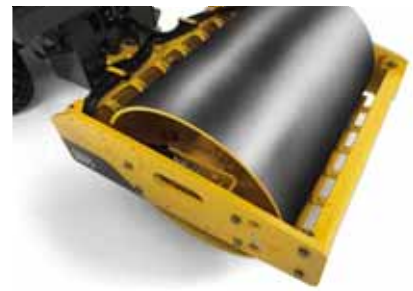
*Only available for SD160 and SD200



CompAnalyzer



Inside scraper



Road lights



Compaction gauge



Auto vibe package



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.

VOLVO

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