

Volvo Construction equipment is different. It's designed, built and supported in a different way. The difference comes from an engineering heritage of 175 years. A heritage of thinking first about the people who actually use the machines. About how to help them be safer, more comfortable, more productive. About the environment we all share. The result of that thinking is a growing range of machines and a global support network dedicated to helping you do more. People around the world are proud to use Volvo. And we're proud of what makes Volvo different – **More care. Built in.**

All products are not 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.



Construction Equipment www.volvo.com

Ref. No. VOE21A1004355 Printed in Sweden 2008.02-4,0 Volvo, Hameln **VOLVO SOIL COMPACTORS**

SD-SERIES



MORE CARE. BUILT IN.



VOLVO – A PARTNER TO TRUST

Our SD-Series soil compactors are genuine Volvo Construction Equipment all the way through – built to deliver maximum performance even under extreme conditions. Like all other Volvos, they have more uptime, more value, more safety and, of course, more care built right in.

Complete range

The SD-Series is a complete range of soil compactors that comprises 18 models with operating weights from 2.5 to 20 tons. You will find Volvo compactors in operation on the toughest and most rugged compaction projects around the globe. We cover everything from efficient compaction of pipeline trenches and cycle tracks to compaction of large areas in highway construction and dam building projects.

Technology that boosts your business

All our soil compactors are designed to do what we believe we do best: Safeguard your operators, the environment and your investment, while advancing the health and the prosperity of your business.

Volvo compactors not only stand out due to their excellent gradeability which makes them first choice for slope compaction. They also deliver class leading compaction forces and achieve the specified degree of compaction with a minimum number of passes, saving the customer time and money.

With the bolt-on padfoot segments, customers can convert a smooth drum into a padfoot compactor, thereby gaining extra versatility. The segments are quickly and easily installed on the smooth drum for compacting cohesive soils and rock-fill materials.

Volvo's new CompAnalyzer provides contractors with a full documentation of the compaction process and allows operators to organise their work most efficiently.

A partner to rely on

The SD-Series is backed by the full strength of Volvo Construction Equipment, which has been an industry force since we started out 175 years ago. We have years of experience partnering with customers to provide tailored full-service maintenance and repairs.

So sit back. Rely on a company with more experience, more skill and more dedication to your results than anyone else in the industry. And see what the Volvo SD-Series can do for your business.





TRUST noun:

- complete confidence in a person
- organization, plan, etc
- to rely on

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THE SD-SERIES - AGILE FORCES WITH BRAINS

Power and force means nothing without brains - so we decided to pack the SD-Series compactors with it all. Depending on the model - from the SD25 to the SD200 - you can draw benefit from our different solutions to make your business more successful.

Vibration isolated operator environment

- The premium shock mounted operator plat-

form or cab vouch for safe and productive

operating hours with excellent comfort.

Bolt-on padfoot system

- The bolt-on padfoot system allows easy switching from compacting granule soils to compacting more cohesive soils and rock filling.
- Most models are available as an F-Version that come with a padfoot drum.

High power to weight ratio

- The SD-Series compactors all pack plenty of efficient power which means safe operations in extreme conditions with forces to spare.

Variable frequency setting

- By using the variable frequency setting, the operator can adapt the vibration to the material.
- The variable centrifugal force allows compaction down to one metre.

STRENGTH noun: - the quality or state of being strong. - ability to do or to bear. - capacity for exertion or endurance. - power to resist force.

Low centre of gravity

- All SD-Series compactors have a low positioned centre of gravity which means stable performance even in steep slopes.

Easy Serviceability

- Excellent accessibility makes daily routine maintenance easy.
- One piece engine cover for complete engine compartment access.
- Rear mounted cooling system for easy access for cleaning.
- Tilting operator platform for access to hydraulic components.
- Remote mounted hydraulic test ports and hydraulic filters.
- Pre-wired for numerous field installed optional features.

- Eccentric oil sight gauge.



Dozerblade

- As an option, Volvo offers a height adjustable and centrally tilting dozer blade.
- With this option, the operator can fill in trenches or strike off the fill material to obtain ideal conditions for compaction work.



Ultra Grade traction system

- The hydrostatic Ultra Grade traction system with wheel and drum drive allows steep climbing without interruption in traction power. The No-Spin differential provides application flexibility.

Gradeability

VOLVO

- Excellent traction and low centre of gravity strongly contributes to the SD-compactors' business leading gradeability which allows compaction of up to 75% gradient (SD122DX).

Optimum Compaction Performance

- Excellent gradeability makes Volvo compactors first choice for slope compaction.
- High or highest compaction forces in their
- Minimum number of passes required high
- Maximum productivity with CompAnalyzer and CompGauge.

DO IT WITH EASE - WELL PROTECTED

Volvo has a proud tradition of ergonomics and safety for one single reason: your operations are carried out by humans. Every part of the operator's job should be safe and easy - that way you will get more out of his work. Minimizing fatigue, facilitate service and preventive maintenance and most important - eliminating risks - will give you more uptime and more satisfied operators in the meantime.







Smart solutions that make your everyday life easier.

- Large, sound-insulated and premium shock mounted cabin (option).
- Right side console contains directional control, vibration on-off control, power outlet, emergency stop, cup holder, storage compartment.
- Premium suspension mounted seats; fully adjustable, swivelling seat base.
- Gauges and control switches are conveniently located on the steering column in front of the operator.
- Climate control (option).
- Audible and visual warning lights for engine, oil pressure, coolant temperature, hydraulic oil temperature, and air cleaner restriction.
- Tilting steering column.
- Two front, to rear working lights.

The smaller SD25 and SD45 compactors have well isolated operator platforms with excellent visibility to carry out demanding jobs in cramped locations. The range from SD70 to SD200 can all be equipped with a safe and comfortable cab with controlled climate to keep the operator fresh through the workshift.

All SD-compactors feature comprehensive operator panels with gauges for oil, fuel, cooling temperature. And of

course they can be fitted with the intelligent Comp-Analyzer with full control over the compaction process.

The operator platform or cab is easily tiltable for maximum access to maintain and service the compactor's hydraulic components. The one-piece rear-hinged engine cover gives complete access to the engine's service points. Not only does this facilitate the service job -it also boosts your machine's availability.



For the drivers comfort Volvo offers an air condition system.



Maximum Safety

"One meter by one meter" visibility. Operator's deck is made of skid resistant material. Spring-applied, hydraulically released brakes, ROPS/FOPS with seat belts. Back-up alarm.



Most models are available as an F-Version that come with a padfoot drum.



CompAnalyzer

Volvo's CompAnalyzer provides contractors with a full data documentation of the compaction process, and allows the operator to compaction values, but no data documenorganise their work most efficiently.



CompGauge

The smaller compaction meter is for customers who require a display of current



Adjustable Frequency

By using the variable frequency setting, the operator can adapt the vibration to the particular material he is compacting. On the bigger machines, the variable centrifugal force enables a depth compaction of down to one metre.

INTELLIGENCE noun:

- the ability to comprehend.

- to understand and profit from experience.

- having the power to bring into

COMPANALYZER

- FOR CONSISTENT COMPACTION CONTROL



Full documentation

Compaction meters are an increasing requirement in large-scale construction and road projects.

Volvo's CompAnalyzer provides contractors with a full data documentation of the compaction process. The system displays the equivalent of up to 350 km of compaction runs. With a 2.13 m wide drum it covers an area of 747.000 square meters.

Saves time and money

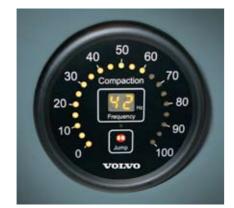
The CompAnalyzer allows the operator to organise their work most efficiently. The display gives a continuous readout of the progress of compaction work. As soon as the maximum compaction level has been achieved, the driver can move on to the next section. Using the CompAnalyzer means avoiding unnecessary work, saving time and money.

Increased compaction quality

Volvo's CompAnalyzer helps customers to safely detect any weak points on previously compacted surfaces, enabling them to be recompacted and stabilised. The user can print out compaction data inside the driver's cab. A small thermal printer is available for this purpose, which is linked with the CompAnalyzer through an RS232 interface.

Little brother - CompGauge

As well as the top-of-the-range Comp-Analyzer system, Volvo also offers a smaller compaction meter for customers who don't need a data documentation. This easy to read system gives the operator a constant overview of the relative ground compaction, current vibrator frequency and the bounce mode.



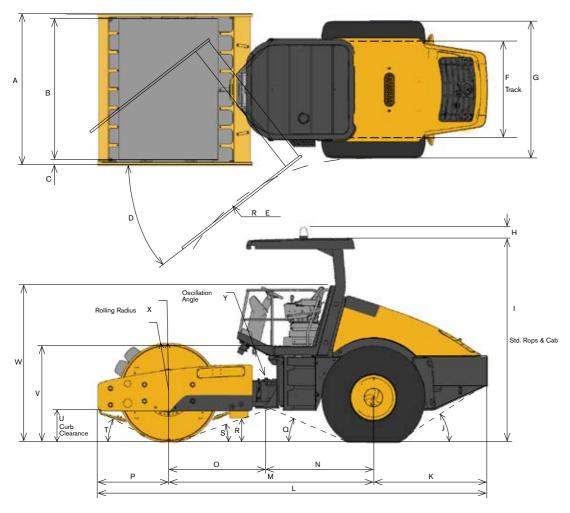
SPECIFICATIONS

Model	Operating Weight (CECE	Static Weight at Drum	Shipping Weight	Vibration frequeny	Centrifugal force	Nominal Amplitude	Engine Model	Engine Power	Travel Speed
SD25D	2 562 kg	1 292 kg	2 478 kg	37 Hz	62 kN	1,55 mm	Kubota V2203-M	32,8 kW at 2 450 rpm	0 - 9,0 km/h
SD25F	2 685 kg	1 415 kg	2 600 kg	37 Hz	56 kN	1,40 mm	Kubota V2203-M	32,8 kW at 2 450 rpm	0 - 9,6 km/h
SD45D	4 807 kg	2 449 kg	4 712 kg	32 Hz	99 kN	1,98 mm	Cummins 4BT 3.3	59,7 kW at 2 200 rpm	0 - 7,4 km/h
SD45F	5 147 kg	2 789 kg	4 893 kg	32 Hz	99 kN	1,71 mm	Cummins 4BT 3.3	59,7 kW at 2 200 rpm	0 - 7,7 km/h
SD70D	7 536 kg	3 740 kg	7 423 kg	30,8/33,8 Hz	143/104 kN	1,98/1,20 mm	Cummins 4BT	70,8 kW at 2 200 rpm	0 - 13,0 km/h 0 - 8,4 km/h
SD77DX	7 803 kg	4 012 kg	7 696 kg	20,4-33,8 Hz	143/104 kN	1,98/1,20 mm	Cummins 4BT	70,8 kW at 2 200 rpm	0 - 13,0 km/h 0 - 8,4 km/h
SD77F	8 456 kg	4 660 kg	8 344 kg	20,4-33,8 Hz	171/135 kN	1,98/1,33 mm	Cummins 4BT	70,8 kW at 2 200 rpm	0 - 11,3 km/h 0 - 7,7 km/h
SD100D	10 837 kg	6 085 kg	10 708 kg	31,2/33,6 Hz	264/206 kN	1,92/1,29 mm	Cummins QSB 4.5 - COM III	97 kW at 2 200 rpm	0 - 12,0 km/h 0 - 8,4 km/h
SD105DX	11 109 kg	6 357 kg	10 980 kg	20,4-33,6 Hz	264/206 kN	1,92/1,29 mm	Cummins QSB 4.5 - COM III	97 kW at 2 200 rpm	0 - 12,0 km/h 0 - 8,4 km/h
SD105F	11 744 kg	6 992 kg	11 615 kg	20,4-33,6 Hz	347/262 kN	2,14/1,39 mm	Cummins QSB 4.5 - COM III	97 kW at 2 200 rpm	0 - 11,3 km/h 0 - 8,1 km/h
SD122D	11 973 kg	6 939 kg	11 771 kg	30,8/33,7 Hz	281/206 kN	1,90/1,17 mm	Cummins QSB 4.5 - COM III	119 kW at 2 200 rpm	0 - 11,1 km/h 0 - 4,6 km/h
SD122DX	12 086 kg	6 927 kg	11 884 kg	20,4-33,7 Hz	281/206 kN	1,90/1,17 mm	Cummins QSB 4.5 - COM III	119 kW at 2 200 rpm	0 - 11,1 km/h 0 - 4,6 km/h
SD122F	12 857 kg	7 698 kg	12 655 kg	20,4-33,7 Hz	293/284 kN	2,03/1,31 mm	Cummins QSB 4.5 - COM III	119 kW at 2 200 rpm	0 - 11,8 km/h 0 - 4,8 km/h
SD160DX	16 391 kg	11 146 kg	16 255 kg	20,8-33,8 Hz	339/264 kN	1,97/1,28 mm	Cummins QSB 6.7 - COM III	129 kW at 2 200 rpm	0 - 12,4 km/h 0 - 4,5 km/h
SD160F	16 935 kg	11 690 kg	16 799 kg	20,8-33,8 Hz	339/257 kN	2,21/1,68 mm	Cummins QSB 6.7 - COM III	129 kW at 2 200 rpm	0 - 11,8 km/h 0 - 4,8 km/h
SD190DX	19 765 kg	12 749 kg	19 629 kg	20,8-30,8 Hz	339/221 kN	1,97/1,28 mm	Cummins QSB 6.7 - COM III	153 kW at 2 000 rpm	0 - 12,4 km/h 0 - 4,6 km/h
SD200DX	20 763 kg	13 747 kg	20 626 kg	20,8-30,8 Hz	368/239 kN	1,76/1,14 mm	Cummins QSB 6.7 - COM III	151 kW at 2 000 rpm	0 - 11,5 km/h 0 - 4,0 km/h
SD200F	20 536 kg	13 520 kg	20 400 kg	20,8-28,3 Hz	359/273 kN	1,99/1,51 mm	Cummins QSB 6.7 - COM III	151 kW at 2 000 rpm	0 - 11,9 km/h 0 - 4,1 km/h

Model	Drum Width	Drum Diameter	Shell Thickness	Diameter of Pad feet	Number of Pad feet	Pad Height	Pad Tip Area	Gradeability (Theor.)	Fuel Capacity
SD25D	1 067 mm	787 mm	12 mm	-	-	-	-	60 %	45
SD25F	1 067 mm	787 mm	12 mm	914 mm	45	64 mm	55 cm ²	50 %	45 I
SD45D	1 372 mm	1 000 mm	20 mm	-	-	-	-	54 %	981
SD45F	1 372 mm	1 000 mm	20 mm	1 153 mm	63	76 mm	125 cm ²	49 %	98 I
SD70D	1 676 mm	1 219 mm	22 mm	-	-	-	-	63 %	178
SD77DX	1 676 mm	1 219 mm	22 mm	-	-	-	-	70 %	178
SD77F	1 676 mm	1 219 mm	22 mm	1 372 mm	84	76 mm	125 cm ²	70 %	178
SD100D	2 134 mm	1 499 mm	25 mm	-	-	-	-	55 %	267 I
SD105DX	2 134 mm	1 499 mm	25 mm	-	-	-	-	62 %	267 I
SD105F	2 134 mm	1 499 mm	25 mm	1 702 mm	120	102 mm	125 cm ²	60 %	267 I
SD122D	2 134 mm	1 499 mm	30 mm	-	-	-	-	68 %	267
SD122DX	2 134 mm	1 499 mm	30 mm	-	-	-	-	75 %	267
SD122F	2 134 mm	1 499 mm	30 mm	1 753 mm	120	127 mm	125 cm ²	71 %	267
SD160DX	2 134 mm	1 600 mm	35 mm	-	-	-	-	65 %	267
SD160F	2 134 mm	1 600 mm	30 mm	1 854 mm	120	127 mm	125 cm ²	55 %	267
SD190DX	2 134 mm	1 600 mm	35 mm	-	-	-	-	60 %	257
SD200DX	2 134 mm	1 651 mm	40 mm	-	-	-	-	59 %	267
SD200F	2 134 mm	1 651 mm	25 mm	1 875 mm	136	127 mm	125 cm ²	49 %	267

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

DIMENSIONS



	Α	В	С	D	E	F	G	н	ı	J	К	L	М
SD25	1 220	1 067	17	35°	2 148	837	1 060	146	2 250	19°	957	3 180	1 673
SD45	1 890	1 372	-	41°	2 569	1 036	1 306	150	2 830	-	955	4 053	2 400
SD70/77													
SD100/105/122	2 286	2 134	79	38°	3 463	1 471	2 134	170,7	3 091	33°	1 726	5 895	3 100
SD160	2 406	2 134	-	38°	3 463	1 471	2 134	-	3 116	33°	-	5 994	3 099
SD190	2 486	2 134	176	38°	3 463	1 471	2 134	193,5	3 116	32°	-	6 280	3 214
SD200	2 486	2 134	176	38°	3 463	1 471	2 134	19,5	3 114	32°	-	6 280	3 214

	N	0	Р	Q	R	s	Т	U	v	w	х	Y
SD25	885	788	550	15°	188	14°	27°	217	-	1 586	-	12°
SD45	1 325	1 075	697	17°	301	15°	30°	305	1 092	2 020	-	12°
SD70/77												
SD100/105/122	1 625	1 475	1 069	24°	375	19°	28°	483	1 466	2 379	752,5/755	17°
SD160	-	-	1 159	24°	506	20°	25°	533	1 476	2 386	-	15°
SD190	1 626	1 588	1 205	25°	455	15°	19°	443	1 476	2 386	800	15°
SD200	1 626	1 588	1 205	25°	465	15°	20°	468	1 482	2 386	825	15°

STANDARD FEATURES/OPTIONAL EQUIPMENT

Standard ● Optional ○	SD25D	SD25F	SD45D	SD45F	SD70D	SD77DX	SD77F	SD100D	SD105DX
Air pre-cleaner	-	-	0	0	•	•	O*	•	•
Automatic vibration on/off and Impactmeter	-	-	-	-	0	0	0	0	0
CE-conformity kit	0	0	0	0	•	•	0	•	•
CompAnalyzer	-	-	-	-	0	0	0	0	0
CompGauge	-	-	-	-	0	0	0	0	0
ROPS cab with heating (204 kg additional weight)	-	-	-	-	0	0	0	0	0
ROPS cab with A/C and heating (249 kg additional weight)	-	-	-	-	0	0	0	0	0
Gauges: Hourmeter, tachometer, fuel, coolant temperature	•	•	•	•	•	•	•	•	•
Gauge Package: engine oil pressure, hydraulic oil temperature, voltmeter	-	-	-	-	0	0	0	0	0
Inside drum scraper bar	0	0	0	0	0	0	0	0	0
Isolated ROPS/FOPS platform with railing and seat	•	•	•	•	•	•	•	•	•
Patented two piece clamp-on padfoot drum shell kit	0	-	0	-	0	0	-	0	0
Strike-off blade	0	0	0	0	0	0	0	0	0
Traction control system	-	-	-	-	0	•	•	0	•
Tyres with diamond tread	-	-	0	-	•	•	-	•	•
Universal front drum scraper	0	-	0	-	•	•	-	•	•
Variable frequency	-	-	-	-	0	•	•	0	•
VPM meter and Speedometer	-	-	-	-	0	0	0	0	0
Warning Beacon	0	0	0*	0*	O**	0**	O**	O**	O**
2 front and 2 rear working lights	0*	O*	O*	0*	•	•	0	•	•
*included in the CE-Kit **only Standard with cabin					Pari	ial listing of st	andard equip	ment and ava	ilable options

Standard ● Optional ○	SD105F	SD122D	SD122DX	SD122F	SD160DX	SD160F	SD190DX	SD200DX	SD200F
Air pre-cleaner	0*	•	•	O*	0*	O*	0*	O*	O*
Automatic vibration on/off and Impactmeter	0	0	0	0	0	0	0	0	0
CE-conformity kit	0	•	•	0	0	0	0	0	0
CompAnalyzer	0	0	0	0	0	0	0	0	0
CompGauge	0	0	0	0	0	0	0	0	0
ROPS cab with heating (204 kg additional weight)	0	0	0	0	0	0	0	0	0
ROPS cab with A/C and heating (249 kg additional weight)	0	0	0	0	0	0	0	0	0
Gauges: Hourmeter, tachometer, fuel, coolant temperature	•	•	•	•	•	•	•	•	•
Gauge Package: engine oil pressure, hydraulic oil temperature, voltmeter	0	0	0	0	0	0	0	0	0
Inside drum scraper bar	0	0	0	0	0	0	0	0	0
Isolated ROPS/FOPS platform with railing and seat	•	•	•	•	•	•	•	•	•
Patented two piece clamp-on padfoot drum shell kit	-	0	0	-	0	-	0	-	-
Strike-off blade	0	0	0	0	0	0	0	-	-
Traction control system	•	0	•	•	•	•	•	•	•
Tyres with diamond tread	-	•	•	-	•	-	•	•	-
Universal front drum scraper	-	•	•	-	0*	-	0*	O*	-
Variable frequency	•	0	•	•	•	•	•	•	•
VPM meter and Speedometer	0	0	0	0	0	0	0	0	0
Warning Beacon	O**	O**	O**	O**	O**	O**	O**	0**	O**
2 front and 2 rear working lights	0*	•	•	O*	0*	O*	O*	O*	O*
*included in the CE-Kit **only Standard with cabin					Part	ial listing of s	tandard equip	ment and avai	lable options

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