

V O L V O



Volvo Single Drum Compactors 6.7t / 14,672 lb 55 kW / 74 hp

SD70

Volvo Construction Equipment

SD70

Optimized for value without any compromise on performance, the SD70 delivers all the performance you expect from a 7-ton Volvo soil compactor.



Performance and value in equal measure

The latest addition to the Volvo Construction Equipment soil compaction range, the SD70 is a soil compactor designed to deliver premium performance at a value price. The SD70 delivers the same outstanding drum performance as a SD75, combined with a streamlined design optimized with cost efficiency in mind. With simplified features ideal for rental fleets, low fuel consumption and strong residual value, the SD70 keeps costs down and uptime high. Designed for easy servicing, complemented by CareTrack telematics and Volvo's standard lifetime frame guarantee, the SD70 represents a solid investment for value-driven operations.

Streamlined for the value segment with no performance trade-offs



- Common drum platform across the range to provide reliable power and performance
- Perfect choice for rental fleets
- Lower capital investment strengthens residual values
- Fast return on investment
- Opportunity to have larger fleets and / or update fleet more regularly
- Built for the job – all the reliability you expect from a Volvo soil compactor, optimized for value and simplicity

Superior Drum performance



- Advanced drum control system
- Multiple frequencies, dual amplitude and optimized centrifugal force

Excellent Gradeability



- Outstanding climbing and traction capabilities across various terrain
- Designed to prevent wheel and drum spin
- Improved gradeability maximizes performance and productivity
- Optional higher traction variant

Perfectly optimized Volvo Tier 4 Final engine



- High torque at low RPM contributing towards superior machine performance combined with low fuel consumption
- Passive regeneration boosts productivity

Robust and reliable



- Lifetime frame guarantee
- CareTrack telematics
- Quick and convenient service access

A solid investment

- Optimized for value, with all the quality and reliability you expect from Volvo
- Shares common powertrain components across the medium soil compaction platform
- Streamlined for the value segment with no performance trade-offs

Drum performance

- Drum quality and performance which Volvo has been synonymous with for over 50-years
- Advanced drum control system delivers multiple frequencies, dual amplitude and optimized centrifugal force

Heavy-duty by design

- Highest quality components, clever routing and clean design
- Heavy-duty drum, center joint and front frame designed and manufactured with durability in mind
- Shares performance-critical components – including engine, pump and motors – with the rest of the Volvo compaction range





Operator experience

- Open ROPS platform
- Safe and comfortable working environment
- Excellent all-round visibility with clear view of the drum and tires
- Bolt-on steel canopy available as an option
- Easy to read and understand operator interface provides operator with up-to-date status of machine operation

The perfect choice for rental fleets

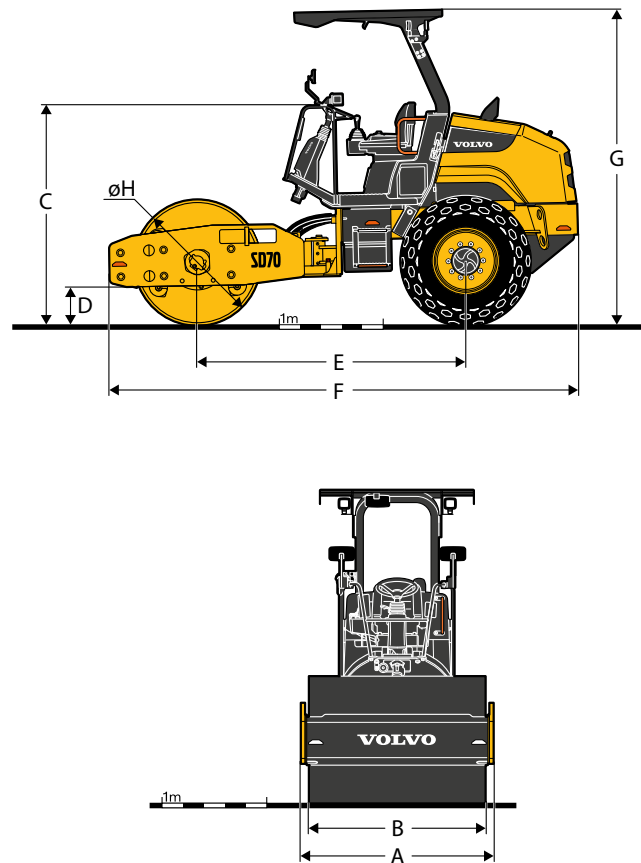
- Streamlined features, easy service access
- Same high-quality build and performance you expect from Volvo
- Blends a value-first approach without compromising on what matters most – a durable design and reliable, high quality compaction performance

Volvo SD70 in detail

Model				SD70			
Drum type				Smooth		Padfoot	
Machine Weights (inc. ROPS & inside scraper)							
Operating Weight (CECE)*		kg	lb	6,655	14,672	6,911	15,238
Static Weight @ Drum		kg	lb	3,812	8,404	3,969	8,750
Static Weight @ Tyres		kg	lb	2,843	6,268	2,943	6,488
Shipping Weight		kg	lb	6,561	14,465	6,818	15,031
Drum							
Width		mm	in	1,676	66	1,676	66
Diameter		mm	in	1,215	47.8	1,207	47.5
Shell Thickness		mm	in	20	0.8	16	0.6
Diameter Over Pad Feet		mm	in	-	-	1,357	53.4
Pad Feet		number of		-	-	84	
Pad Height		mm	in	-	-	75	3
Pad Tip Area		cm²	in²	-	-	135.3	21
Vibration							
Frequency		Hz	vpm	30.8/33.8	1,850/2,025	30.8/33.8	1,850/2,025
Centrifugal Force	High Amp	kN	lb	133	29,900	133	29,900
	Low Amp	kN	lb	96	21,582	96	21,582
Nominal Amplitude	High Amp	mm	in	1.96	0.077	1.5	0.059
	Low Amp	mm	in	1.17	0.046	1.02	0.035
Propulsion							
Type				Hydrostatic			
Tyre				14.9-24 R3 6PR TL		14.9-24 R1 8PR TL	
Drum Drive				LSHT Motor			
Travel Speed							
High		km/h	mph	11.9	7.4	13.3	8.3
Low		km/h	mph	7.8	4.9	8.1	5.1
Engine							
Make / Model				Volvo D3.3H			
Engine Type				Turbocharged 4 cylinder			
Rated Power @ 2 200 rpm		kW	hp	55		74	
Electrical System							
Voltage (Negative ground)			Volt	12			
Alternator			Ah	90			
Batteries			CCA	1 x 785			
Brakes							
Service				Hydrostatic			
Parking / Secondary				Spring-applied, hydraulically released on drum & axle			
Miscellaneous							
Articulation Angle			°	+/- 38			
Oscillation Angle			°	+/- 12			
Inside turning radius		mm	in	3,023	120	3,023	120
Fuel Capacity		l	gal	101.3		26.8	
Hydraulic Oil Capacity		l	gal	96.1		25.4	
Guaranteed Sound Level							
Operator's Ear, acc. to ISO 11203:2009		L _{pA} dB(A)		84			
External, acc. to Directive 2000/14/EC		L _{WA} dB(A)		102			

*Operating weight includes 50% fuel and 75kg/165lb operator

Specifications



DIMENSIONS

Model	SD70			
	Smooth drum		Padfoot drum	
	mm	in	mm	in
A	1,830	72	1,830	72
B	1,676	66	1,676	66
C	2,150	84.6	2,220	87.4
D	383	15.1	452	17.8
E	2,586	101.8	2,586	101.8
F	4,521	178	4,521	178
G	2,987	117.6	3,003	118.2
H	1,215	47.8	1,357	53.4

GRADEABILITY

Model	SD70	
Drum type	Smooth	Padfoot
No traction enhancement	Moderate	
With flow divider option	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.

Equipment

STANDARD EQUIPMENT

Smooth Drum Installation
Universal Bumper Installation
Scraper for Smooth Drum
OROPS Operator's Platform
Diamond tire with ballast (4PR R3 tires)
US EPA Tier 4 Final engine
Vandal cover
Steel Canopy Kit
Steering Knob
Cup Holder
Work Lights
English Manual
Caretrack Cellular
CareTrack 4 YR Subscr
SIMS card installation US
Inside scraper
North American Decals
Frame lifetime guarantee

OPTIONAL EQUIPMENT

Padfoot Drum
Bolt-on padfoot shell kit
Padfoot drum scraper
Lug tire w/ ballast (8PR R1 tires)
Auto Idle shutdown
Engine air intake prefilter
Mirror packages
LED work lights and beacons/strobes
Auto vibration
Biodegradeable oil
Tow valve
Traction Control
Remote hydraulic test ports
Operators manuals available in multiple languages
Caretrack
Leveling blade
Special paint
Anti theft
3rd party decal packages







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