

VOLVO SINGLE DRUM COMPACTORS

# SD100 SERIES



**MORE CARE. BUILT IN.**



# A WINNING COMBINATION – PERFORMANCE AND VALUE

The Volvo SD100 Series single drum compactors are powered by a 71 kW (95 hp) Cummins turbocharged diesel engine. These models are available with axle drive and are well suited to a wide variety of applications. For more demanding projects where superior gradeability is required, the SD100DC and SD100FC are available with drum drives as well as axle drives. Both of these machines are powered by a turbocharged, after-cooled 93 kW (125 hp) Cummins engine.

## Standard Features

- Back-up alarm
- Hydrostatic drive of axle and drum (except SD100) with two-speed transmission
- Oil splash eccentric bearing lubrication
- Dual amplitude eccentric mechanism
- Planetary axle with No-Spin® differential
- ROPS / FOPS with seat belt
- Torque-balanced hydraulic components
- Variable vibration frequency
- High ambient capability
- Compaction width of 2,1 m (84")

## Selected Options

- Air pre-cleaner for engine
- Clamp-on padfoot shell kit for SD100DC only (requires HD drive motor)
- Cold weather starting aid (ether)
- Engine block heater
- Engine side panels (encloses engine compartment)
- EPA certified engine installation (SD100DC and SD100FC only)
- Hydraulic oil temperature gauge
- Lights with turning signals
- Special paint
- Tires 457 mm x 660 mm (18.4" x 26") R3 10 PR (SD100FC only)
- Vandal cover for instrument panel
- Work lights (2 front and 2 rear)
- Contact factory for additional options



# SPECIFICATIONS

Model		SD100	SD100DC	SD100FC
<b>Machine Weights (w/ ROPS / FOPS)</b>				
Operating Weight with cab only (no ROPS)	kg (lb)	10 233 (22,560)	9 995 (22,035)	10 767 (23,738)
Operating Weight (CECE) (w/ ROPS / FOPS)	kg (lb)	10 272 (22,650)	10 034 (22,125)	10 806 (23,828)
Static Weight @ Drum	kg (lb)	5 850 (11,900)	5 861 (12,925)	6 787 (14,965)
Static Weight @ Tires	kg (lb)	4 420 (9,750)	4 172 (9,200)	4 019 (8,863)
Shipping Weight	kg (lb)	10 140 (22,359)	9 902 (21,834)	10 674 (23,537)
<b>Machine Dimensions</b>				
Overall Length	mm (in)	5 602 (221)	5 602 (221)	5 602 (221)
Overall Width	mm (in)	2 312 (91)	2 312 (91)	2 312 (91)
Overall Height — Top Of ROPS / FOPS	mm (in)	3 095 (122)	3 095 (122)	3 137 (124)
Overall Height — Top Of Steering Wheel	mm (in)	2 376 (94)	2 376 (94)	2 414 (95)
Wheelbase	mm (in)	3 325 (131)	3 325 (131)	3 325 (131)
Curb Clearance	mm (in)	521 (20)	521 (20)	563 (22)
Inside Turning Radius (to drum edge)	mm (in)	3 615 (142)	3 615 (142)	3 615 (142)
<b>Drum</b>				
Width	mm (in)	2 134 (84)	2 134 (84)	2 134 (84)
Diameter	mm (in)	1 499 (59)	1 499 (59)	1 499 (59)
Shell Thickness	mm (in)	25 (1)	25 (1)	25 (1)
Diameter Over Pad Feet	mm (in)	-	-	1 702 (67)
Number Of Pads / Pad Height	mm (in)	-	-	120 pads / 100 (4)
Pad Tip Area	cm <sup>2</sup> (sq in)	-	-	125 (21)
<b>Vibration</b>				
Frequency	Hz (vpm)	0 – 30 (0 – 1,800)	0 – 30 (0 – 1,800)	0 – 30 (0 – 1,800)
Centrifugal Force	kN (lb)	High	245 (55,000)	245 (55,000)
		Low	165 (37,000)	165 (37,000)
Nominal Amplitude	mm (in)	High	1,92 (0.076)	1,92 (0.076)
		Low	1,29 (0.051)	1,29 (0.051)
<b>Propulsion</b>				
Type System		Hydrostatic, two-speed motor on planetary axle & No-Spin® differential	Hydrostatic, two-speed drum drive motor and single-speed motor on planetary axle with No-Spin® differential	
Drum Drive		-	Low speed, high torque motor	
Tire Size	mm (in)	587 x 660 (23.1 x 26) – 8 PR R3	587 x 660 (23.1 x 26) – 8 PR R3	587 x 660 (23.1 x 26) – 8 PR R1
Travel Speed	km/h (mph)	Low Gear	0 – 6,1 (0 – 3.8)	0 – 9,5 (0 – 5.9)
		High Gear	0 – 12,4 (0 – 7.7)	0 – 12,2 (0 – 7.6)
<b>Engine</b>				
Make / Model		Cummins 4BT3.9	Cummins 4BT3.9 turbo and aftercooled	
Rated Power @ Installed Speed	kW (hp)	70,8 (95)	93,2 (125)	93,2 (125)
Electrical System		12 volts DC, negative ground, 65 A alternator, 900 CCA battery		
<b>Brakes</b>				
Service		Dynamic hydrostatic through propulsion system		
Parking / Secondary		Spring-applied, hydraulically released (SAHR) on axle and drum		
<b>Miscellaneous</b>				
Articulation Angle		+ / - 40°	+ / - 40°	+ / - 40°
Oscillation Angle		+ / - 17°	+ / - 17°	+ / - 17°
Fuel Capacity	l (gal)	273 (72)	273 (72)	273 (72)
Hydraulic Oil Capacity	l (gal)	204 (54)	204 (54)	204 (54)
Gradeability (theoretical)		35%	54%	52%

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



Volvo Construction Equipment is different. Our machines are designed, built and supported in a different way. That difference comes from an engineering heritage of over 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.**



*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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[www.volvoce.com](http://www.volvoce.com)

Ref. No. VOE 21 A 100 4077  
Printed in Sweden 2008.05-5,0  
Volvo, Sweden

English