

VOLVO SINGLE DRUM COMPACTORS

# SD100D, SD100F



# PROVEN PERFORMANCE: SOIL COMPACTOR

The Volvo SD100 vibratory soil compactors have 2 134 mm **(84")** vibratory drums and are designed with many innovative features that provide excellent drum performance, serviceability, reliability, and a safe, comfortable, and productive environment for the operator. The SD100D smooth drum and SD100F padfoot drum models are engineered to efficiently and effectively compact all types of soils from granular to cohesive.

## Performance Features

- Audible and visual warning lights for engine oil pressure, coolant temperature, hydraulic oil temperature, and air cleaner restriction
- Centrally located remote-mounted hydraulic oil filters
- Control console also includes cup holder, storage, and power outlet
- Easily accessible batteries protected behind hinged steps
- Gauges for coolant temperature, fuel, hour meter, and tachometer
- Heavy-duty axle with No-Spin® differential
- Hydraulic and eccentric oil level sight gauges
- Lockable control panel, engine cover, and fill caps
- Rear-mounted cooling system, easy access for cleaning
- ROPS / FOPS with seat belts
- Safety features include skid-resistant deck with foot rest, dual deck rails, hand rails, seat switch, back-up alarm, horn, and emergency stop
- Single control for direction and speed with on / off vibration switch
- Suspension seat with arm rest
- Warning lights for air cleaner restriction, battery discharge, engine oil pressure, and parking brake
- Battery master switch

## Available Options

- Air pre-cleaner
- Engine cold start aid
- EROPS cab with heat (adds 204 kg **[450 lb]**)
- Inside drum scraper bar (standard on F model)
- Patented 2-piece, clamp-on padfoot shell kit
- Speedometer / VPM meter
- Strike-off blade (padfoot drums only)
- Ultra-Grade® Traction Control System, a full-time system, provides excellent climbing ability when operating in difficult applications

## Option Packages

### Lights Package

- Work light
- Beacon
- Vandal cover

### Gauge Package

- Engine oil pressure
- Hydraulic oil temperature
- Volt meter

### Climate Control Package

- Cab with heat
- Work light
- Rotating beacon
- Guard heater



# SPECIFICATIONS

Model		SD100D	SD100F
<b>Machine Weights (w/ ROPS / FOPS)</b>			
Operating Weight (CECE)	kg (lb)	10 476 (23,100)	11 383 (25,100)
Static Weight @ Drum	kg (lb)	5 941 (13,100)	6 848 (15,100)
Static Weight @ Tires	kg (lb)	4 530 (10,000)	4 530 (10,000)
Shipping Weight	kg (lb)	10 347 (22,816)	11 254 (24,816)
<b>Machine Dimensions</b>			
Length	mm (in)	5 892 (232)	5 892 (232)
Width	mm (in)	2 286 (90)	2 286 (90)
Height (top of ROPS / FOPS)	mm (in)	3 091 (121.7)	3 146 (123.9)
Wheelbase	mm (in)	3 100 (122)	3 100 (122)
Curb Clearance	mm (in)	483 (19)	483 (19)
Inside Turning Radius (to drum edge)	mm (in)	3 463 (136)	3 463 (136)
<b>Drum</b>			
Width	mm (in)	2 134 (84)	2 134 (84)
Diameter	mm (in)	1 499 (59)	1 499 (59)
Shell Thickness	mm (in)	25 (1)	25 (1)
Diameter Over Pad Feet	mm (in)	-	1 702 (67)
Number Of Pad Feet		-	120
Pad Height	mm (in)	-	1,02 (4)
Pad Tip Area	cm <sup>2</sup> (sq in)	-	1,25 (21)
<b>Vibration</b>			
Frequency	Hz (vpm)	31,2 / 33,6 (1,870 / 2,019)	31,2 / 33,6 (1,870 / 2,019)
Centrifugal Force	kN (lb) High	264 (59,300)	264 (59,300)
	Low	206 (46,300)	206 (46,300)
Nominal Amplitude	mm (in) High	1,92 (0,076)	1,63 (0,064)
	Low	1,29 (0,051)	1,09 (0,043)
<b>Propulsion</b>			
Type System		Hydrostatic, single-speed motor on planetary axle w/ No-Spin® differential and 2-speed drum drive motor	
Tire Size	mm (in)	587 x 660 (23.1 x 26) - 8PR R3	587 x 660 (23.1 x 26) - 8PR R1
Drum Drive		Planetary gear reduction	
Travel Speed	km/h (mph) High	0 - 10,1 (0 - 6.3)	0 - 10,3 (0 - 6.4)
	Low	0 - 6 (0 - 3.7)	0 - 6,3 (0 - 3.9)
<b>Engine</b>			
Make & Model		Cummins QSB4.5 Tier 3	
Engine Type		Turbocharged and aftercooled 4-cylinder	
Rated Power @ Installed Speed	kW (hp)	97 (130)	97 (130)
Electrical System		12 volts DC, negative ground, 95 A alternator, (2) 750 CCA batteries	
<b>Brakes</b>			
Service		Dynamic hydrostatic through propulsion system	
Parking / Secondary		Spring-applied, hydraulically released on axle and drum drive motors	
<b>Miscellaneous</b>			
Articulation Angle		+ / - 38°	+ / - 38°
Oscillation Angle		+ / - 17°	+ / - 17°
Fuel Capacity	l (gal)	257 (68)	257 (68)
Hydraulic Oil Capacity	l (gal)	84 (22)	84 (22)
Gradeability (theoretical)		35%	60%

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

# VOLVO CONSTRUCTION EQUIPMENT

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 180 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.

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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