

VOLVO SINGLE DRUM COMPACTORS

# SD70D, SD70F



**MORE CARE. BUILT IN.**



# PROVEN PERFORMANCE WITH EASY OPERATION

Volvo SD70 vibratory soil compactors are designed with many innovative features that offer excellent drum performance and reliability while providing a safe and comfortable environment for the operator. Both models are engineered to efficiently and effectively compact a variety of soil types while the powerful eccentric system with dual amplitude and frequency provides versatility on thin or thick material lifts.

## Performance Features

- Audible and visual warning lights for engine oil pressure, coolant temperature, hydraulic oil temperature, and air cleaner restriction
- Eccentric system with dual amplitude and frequency
- Ergonomically designed, roto-molded plastic operator platform reduces fatigue and allows easy access to all controls
- 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 footrest, dual deck rails, hand rails, back-up alarm, horn, and emergency stop
- Suspension seat with arm rest
- Battery master switch

## Serviceability

One-piece, rear-hinged engine cover for complete access and tilting operator platform for hydraulic access.

## Available Options\*

- Air precleaner
- Patented 2-piece, clamp-on padfoot shell kit
- Inside drum scraper bar
- Levelling Blade
- Speedometer / VPM meter package
- CompAnalyzer
- CompGauge

\*Certain options are not available in all markets.

## Option Packages

- Lights Package (work light, vandal covers, beacon light)
- Gauge Package (volt meter, engine oil pressure gauge, hydraulic oil temperature gauge)
- Climate Control Package (cab with heat, worklights, rotating beacon, grid heater)

## Optional Padfoot Shell Kit

A two-piece, clamp-on padfoot shell kit easily and quickly converts the SD70 smooth drum into a padfoot drum without changing the hydraulic system. Drum conversion is completed by installing the two shells and replacing the smooth scraper bar with padfoot teeth.



# SPECIFICATIONS

Model		SD70D	SD70F
<b>Machine Weights (w/ ROPS / FOPS)</b>			
Operating Weight (CECE)	kg (lb)	7 143 (15,750)	8 063 (17,780)
Static Weight @ Drum	kg (lb)	3 583 (7,900)	4 503 (9,930)
Static Weight @ Tires	kg (lb)	3 560 (7,850)	3 560 (7,850)
Shipping Weight	kg (lb)	7 030 (15,503)	7 951 (17,533)
<b>Machine Dimensions</b>			
Length	mm (in)	5 044 (199)	5 044 (199)
Width	mm (in)	1 830 (72)	1 830 (72)
Height (top of ROPS / FOPS)	mm (in)	2 922 (115)	2 955 (116)
Wheelbase	mm (in)	2 673 (105)	2 673 (105)
Curb Clearance	mm (in)	385 (15)	445 (17)
Inside Turning Radius	mm (in)	3 249 (128)	3 249 (128)
<b>Drum</b>			
Width	mm (in)	1 676 (66)	1 676 (66)
Diameter	mm (in)	1 219 (48)	1 219 (48)
Shell Thickness	mm (in)	22 (0.88)	22 (0.88)
Diameter Over Pad Feet	mm (in)	-	1 372 (54)
Number Of Pad Feet		-	84
Pad Height	mm (in)	-	76 (3)
Pad Tip Area	cm <sup>2</sup> (sq in)	-	125 (21)
<b>Vibration</b>			
Frequency	Hz (vpm)	30,8 – 33,8 (1,850 – 2,025)	30,8 – 33,8 (1,850 – 2,025)
Centrifugal Force	kN (lb) High	143 (32,100)	143 (32,100)
	Low	104 (23,300)	104 (23,300)
Nominal Amplitude	mm (in) High	1,98 (0.078)	1,68 (0.066)
	Low	1,2 (0.047)	1,02 (0.040)
<b>Propulsion</b>			
Type System		Hydrostatic, 2-speed motor on planetary axle w/ No-Spin® differential and single-speed drum drive motor	
Tire Size	mm (in)	378,5 x 609,6 (14.9 x 24) – 6PR R3	378,5 x 609,6 (14.9 x 24) – 6PR R3
Drum Drive		Planetary gear reduction	
Travel Speed	km/h (mph) High	0 – 14,5 (0 – 9)	0 – 15,1 (0 – 9.4)
	Low	0 – 6,5 (0 – 4.1)	0 – 6,8 (0 – 4.2)
<b>Engine</b>			
Make / Model		Cummins B4.5T Tier 2	
Engine Type		Turbocharged 4-cylinder	
Rated Power @ Installed Speed	kW (hp)	73,8 (99)	73,8 (99)
Electrical System		12 volts DC, negative ground, 105 A alternator, (1) 750 CCA battery	
<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		+ / - 15°	+ / - 15°
Fuel Capacity	l (gal)	178 (47)	178 (47)
Hydraulic Oil Capacity	l (gal)	84 (22)	84 (22)
Gradeability (theoretical)		78%	78%

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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