

VOLVO SINGLE DRUM COMPACTORS

SD45D, SD45F



MORE CARE. BUILT IN.



LITTLE IN SIZE, BIG ON PERFORMANCE

The SD45 soil compactor comes in either a smooth drum model for compacting granular soils, or a padfoot drum model for cohesive soils. Both models have 1 372 mm (54") rolling widths ideal for small applications such as residential and commercial construction. Excellent gradeability and traction are achieved through a full-time traction control system driving both the drum and rear axle.

Performance Features

- Adjustable front drum scraper
- Centrally located remote-mounted hydraulic oil filters
- Drum and axle drive, No-Spin® differentials, and full-time flow divider
- Gauges for coolant temperature, fuel, hour meter, and tachometer
- Lug-type tires track within drum width
- Oil level sight gauges (eccentric oil and hydraulic oil reservoirs)
- ONE METER BY ONE METER operator visibility
- Safety features include ROPS / FOPS, seat belt, back-up alarm, seat switch, emergency stop button, horn, safety rails, and grab handle
- Tilting operator platform for easy access to major components, reducing downtime and repair costs
- Vibration-isolated, anti-slip, polymer operator platform with ergonomic design reduces fatigue and enhances comfort

Optional Padfoot Shell Kit

A two-piece, clamp-on padfoot shell kit easily and quickly converts the SD45D 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 with padfoot teeth.

Selected Options

- Air precleaner
- Audible alarm
- Inside drum scraper bar
- Patented 2-piece, clamp-on padfoot shell kit
- Rotating beacon light
- Strike-off blade (2-way)
- Strike-off blade (4-way, semi U-shape)
- Tires with diamond tread
- Universal front drum scraper

Option Packages

- Lights Package
- work light
 - beacon light
 - vandal cover
- Gauge Package
- engine oil pressure
 - hydraulic oil temperature
 - volt meter



SPECIFICATIONS

Model		SD45D	SD45F
Machine Weights (w/ ROPS / FOPS)			
Operating Weight (CECE)	kg (lb)	4 807 (10,600)	5 147 (11,350)
Static Weight @ Drum	kg (lb)	2 449 (5,400)	2 789 (6,150)
Static Weight @ Tires	kg (lb)	2 358 (5,200)	2 358 (5,200)
Shipping Weight	kg (lb)	4 712 (10,390)	5 053 (11,140)
Machine Dimensions			
Length	mm (in)	4 053 (160)	4 053 (160)
Width	mm (in)	1 590 (62.6)	1 590 (62.6)
Height (top of ROPS / FOPS)	mm (in)	2 830 (111.4)	2 885 (113.6)
Wheelbase	mm (in)	2 450 (94.5)	2 450 (94.5)
Curb Clearance	mm (in)	305 (12)	368 (14.5)
Inside Turning Radius (to drum edge)	mm (in)	2 569 (101)	2 569 (101)
Drum			
Width	mm (in)	1 372 (54)	1 372 (54)
Diameter	mm (in)	1 000 (39.4)	1 000 (39.4)
Shell Thickness	mm (in)	20 (0.78)	20 (0.78)
Diameter Over Pad Feet	mm (in)	-	1 153 (45.4)
Number Of Pad Feet		-	63
Pad Height	mm (in)	-	76 (3)
Pad Tip Area	cm ² (sq in)	-	125 (21)
Vibration			
Frequency	Hz (vpm)	32 (1,900)	32 (1,900)
Centrifugal Force	kN (lb)	99 (22,250)	99 (22,250)
Nominal Amplitude	mm (in)	1,98 (0.078)	1,71 (0.067)
Propulsion			
Type System		Hydrostatic, single-speed motors on drum and planetary axle w/ No-Spin® differential	
Tire Size	mm (in)	315 x 610 (12.4 x 24) - 4PR R1 Lug	315 x 610 (12.4 x 24) - 4PR R1 Lug
Drum Drive		Low speed, high torque motor	
Travel Speed	km/h (mph)	0 - 7,7 (0 - 4.8)	0 - 7,9 (0 - 4.9)
Engine			
Make / Model		Cummins 4BT 3.3	
Engine Type		Turbocharged 4-cylinder	
Rated Power @ Installed Speed	kW (hp)	59,7 (80)	59,7 (80)
Electrical System		12 volts DC, negative ground; 60 A alternator; (1) 750 CCA battery	
Brakes			
Service		Dynamic hydrostatic through propulsion system	
Parking / Secondary		Spring-applied, hydraulically released on rear axle	
Miscellaneous			
Articulation Angle		+ / - 41°	+ / - 41°
Oscillation Angle		+ / - 12°	+ / - 12°
Fuel Capacity	l (gal)	98 (26)	98 (26)
Hydraulic Oil Capacity	l (gal)	96 (25)	96 (25)
Gradeability (theoretical)		54%	45%

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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