

VOLVO SINGLE DRUM COMPACTORS

SD45

4 807 kg (10,600 lb), 63 kW (84.5 hp)



LITTLE IN SIZE, BIG ON PERFORMANCE

The SD45 soil compactor comes either as a smooth drum model for compacting granular soils, or with a padfoot drum (option) for cohesive soils. Both variants have 1 372 mm **(54 in)** 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 drum

Optional Padfoot Shell Kit

A two-piece, clamp-on padfoot shell kit easily and quickly converts the SD45 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
- Beacon
- CE certification
- Gauge package (engine oil pressure, hydraulic oil temperature, volt meter)
- Inside drum scraper bar
- Patented 2-piece, clamp-on padfoot shell kit
- Power port
- Remote hydraulic test ports
- Rotating beacon light
- Strike-off blade (2-way or 4-way)
- Tilt wheel
- Tires with diamond tread
- Universal front drum scraper
- Vandal cover
- Work lights



SPECIFICATIONS

Model		SD45	
		Smooth drum	Padfoot drum
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)	5 052 (11,140)
Machine Dimensions			
Length	mm (in)	4 053 (160)	4 053 (160)
Width	mm (in)	1 550 (61)	1 550 (61)
Height (top of ROPS / FOPS)	mm (in)	2 830 (111.4)	2 885 (113.6)
Wheelbase	mm (in)	2 400 (94)	2 400 (94)
Curb Clearance	mm (in)	305 (12)	308 (12.1)
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 (3.0)
Pad Tip Area	cm² (sq in)	–	135 (21)
Vibration			
Frequency	Hz (vpm)	32 (1 900)	32 (1 900)
Centrifugal Force	kN (lb)	99 (22,300)	99 (22,300)
Nominal Amplitude	mm (in)	1.99 (0.078)	1.71 (0.067)
Propulsion			
Type System		Hydrostatic, single-speed motor on planetary axle w/ flow divider and LSHT motor for drum drive	
Tire Size		12.4 x 24 R1 - 4PR	12.4 x 24 RI - 4PR
Drum Drive		Low speed, high torque motor	
Travel Speed	km/h (mph)	0 – 8.1 (0 – 5)	0 – 7.9 (0 – 4.9)
Engine			
Make / Model		Kubota V-3600T Tier 3	
Engine Type		Turbocharged 4-cylinder	
Rated Power @ Installed Speed	km/h (mph)	63 (84.5) @ 2600 rpm	
Electrical System		12 volts DC, negative ground; 90 A alternator; (1) 785 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 (25)	98 (25)
Hydraulic Oil Capacity	l (gal)	96 (25)	96 (25)
Gradeability (theoretical)		55%	45%

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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