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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<sup>®</sup> 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	
<b>Machine Weights w/ ROPS / FOPS</b>			
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)
<b>Machine Dimensions</b>			
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)
<b>Drum</b>			
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	cm <sup>2</sup> (sq in)	-	135 (21)
<b>Vibration</b>			
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)
<b>Propulsion</b>			
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)
<b>Engine</b>			
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		
<b>Brakes</b>			
Service	Dynamic hydrostatic through propulsion system		
Parking / Secondary	Spring-applied, hydraulically released on rear axle		
<b>Miscellaneous</b>			
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%

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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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