

VOLVO SINGLE DRUM COMPACTOR

SD77DA



MORE CARE. BUILT IN.



INCREASED VERSATILITY WITH VOLVO COMPACTORS

The Volvo SD77DA compactor combines proven technologies from the soil and asphalt lines and is designed with dual frequency, eight amplitudes, a machined drum, and auto-reversing eccentrics. The SD77DA is equipped with automatic on / off spray and vibration systems adjusted for machine travel, plus it has many other features commonly found on large highway-class double drum compactors.

Features

- Audible warning alarms for air cleaner restriction, engine coolant temperature, engine oil pressure, and hydraulic oil temperature
- Color-coded lube chart, remote-mounted hydraulic pressure test ports, and hydraulic filters sight gauge for checking eccentric oil and hydraulic oil reservoirs
- Eccentric rotation matches travel direction
- Eight-position variable amplitude
- Gauges for hour meter, tachometer, engine coolant temperature, fuel, and impact meter
- ONE METER BY ONE METER operator visibility
- One-piece rear engine cover and tilting operator platform provide unobstructed access to engine, coolant system, and hydraulic components
- Pressurized emulsion spray system includes adjustable front and rear drum scrapers with wiper blades and cocoa mats
- Pressurized water system with back-up spray bar, dual pumps, hand-serviceable nozzles, and a 3-stage filtration system
- Safety features: ROPS / FOPS, seat belts, seat switch, double-bar guard rails, skid-resistant deck, and back-up alarm
- Travel direction and speed control, horn, emergency stop, water and emulsion control switch, power outlet, parking brake, brake test switch, and keyed ignition switch
- Vibration-isolated operator station with suspension-mounted seat, tilt steering column, fully adjustable swivel seat base, and fold-down adjustable arm rest
- Work lights, two front and two rear

Available Options

- Engine air pre-cleaner
- Gauge package for engine oil pressure, volt meter, and hydraulic oil temperature
- Special paint
- Impact / Auto vib



SPECIFICATIONS

Model		SD77DA
Machine Weights (w/ ROPS / FOPS)		
Operating Weight (CECE)	kg (lb)	7 868 (17,350)
Static Weight @ Drum	kg (lb)	4 784 (10,550)
Static Weight @ Tires	kg (lb)	3 084 (6,800)
Shipping Weight	kg (lb)	7 210 (15,900)
Machine Dimensions		
Length	mm (in)	5 197 (205)
Width	mm (in)	1 854 (73)
Height (top of ROPS / FOPS)	mm (in)	2 957 (116)
Wheelbase	mm (in)	2 771 (109)
Curb Clearance	mm (in)	396 (15.6)
Inside Turning Radius (to drum edge)	mm (in)	3 100 (122)
Drum		
Width	mm (in)	1 675 (66)
Diameter	mm (in)	1 220 (48)
Shell Thickness (nominal)	mm (in)	19 (0.75)
Vibration		
Dual Frequency	Hz (vpm)	31 / 42 (1,850 / 2,500)
Max Centrifugal Force	kN (lb) High Amp Low Amp	116 (26,000)
		26 (5,840)
Max Nominal Amplitude, 8 settings	mm (in) High Amp Low Amp	1,01 (0.040)
		0,41 (0.016)
Propulsion		
Type System		Hydrostatic, single-speed drum drive motor and 2-speed motor on planetary axle with No-Spin® differential
Tire Size	mm (in)	330 x 610 (13 x 24) – 10 PR-smooth
Travel Speed	km/h (mph) High Low	0 – 13,1 (0 – 8.1)
		0 – 8,5 (0 – 5.4)
Engine		
Make & Model		Kubota V3800DI Tier 3
Engine Type		4-cylinder turbocharged
Rated Power @ Installed Speed	kW (hp)	73,8 (99)
Electrical System		12 volts DC, negative ground; 95 A alternator; (1) 750 cca battery
Brakes		
Service		Dynamic hydrostatic through propulsion system
Parking / Secondary		Spring-applied, hydraulically released on axle
Water System		
Type / Pump		Pressurized, electric diaphragm pump with flow control
Tank Capacity	l (gal)	492 (130)
Drum Spray Nozzles: Main Bar		7 hand-serviceable nozzles
Drum Spray Nozzles: Auxiliary Bar		6 hand-serviceable nozzles
Miscellaneous		
Articulation Angle		+ / - 38°
Oscillation Angle		+ / - 15°
Fuel Capacity	l (gal)	178 (47)
Hydraulic Oil Capacity	l (gal)	84 (22)
Gradeability (theoretical)		55%
Emulsion Tank Capacity	l (gal)	68 (18)

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



Volvo Construction Equipment is different. The company's products are designed, built and supported in a different way. That difference comes from our 175-year engineering heritage. A heritage of thinking first about the people who actually use the machines. About how to make them 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

Volvo Construction Equipment
www.volvo.com

Ref. No. VOE 22 C 100 4055
Printed in USA 2009.10-5.0
Volvo, Asheville

English