

VOLVO SINGLE DRUM COMPACTORS

SD77DX, SD77F



MORE CARE. BUILT IN.



HIGH PERFORMANCE SINGLE DRUM COMPACTOR

The Volvo SD77 single drum compactors with 1 676 mm (66") vibratory drums offer many innovative features that provide excellent drum performance, serviceability, reliability, and a comfortable and safe environment for the operator. The SD77DX smooth drum and SD77F padfoot drum are engineered to efficiently and effectively compact all types of soils ranging from granular to cohesive.

Performance Features

- Audible and visual warning light for engine oil pressure, coolant temperature, hydraulic oil temperature, and air cleaner restriction
- Centrally located remote-mounted hydraulic oil filters and hydraulic test ports
- Easily accessible battery protected behind hinged steps
- Gauges for coolant temperature, fuel, hour meter, and tachometer
- Heavy-duty axle with No-Spin® differential
- Hydraulic and eccentric oil level sight gauges
- Inside drum scraper bar
- Lockable control panel, engine cover, and fill caps
- ONE METER BY ONE METER visibility
- Powerful eccentric system with dual amplitude
- Premium 6-way adjustable suspension seat, including swivel feature and arm rest
- Premium shock mounts for operator platform
- Rear-mounted cooling system, easy access for cleaning
- ROPS / FOPS with seat belts
- Safety features include skid-resistant deck with foot rest, dual deck rails, hand rails, seat switch, back-up alarm, horn, and emergency stop
- Single control for direction and speed with on / off vibration switch
- Battery master switch
- Tilt steering column with console

- Tilting operator platform for easy access to major components, reducing downtime and repair costs
- Ultra-Grade® Traction Control System provides excellent climbing and traction when operating in difficult applications
- Universal front scraper, reducing time required to install or remove optional padfoot shell kit
- Variable frequencies provide better matching of natural resonance of various soils
- Vibration-isolated, anti-slip, roto-molded plastic operator platform reduces fatigue

Available Options*

- Air precleaner
- Patented 2-piece clamp-on padfoot shell kit
- Strike-off blade (padfoot drums only)
- VPM meter and speedometer
- Inside scraper
- CompAnalyzer
- CompGauge

*Certain options are not available in all markets.

Option Packages

- Gauge package (volt meter, engine oil pressure gauge, hydraulic oil temperature gauge)
- Climate control package (cab with heat and air conditioning, work lights, beacon, ground heaters)
- Lights package (work lights, vandal cover, beacon light)



SPECIFICATIONS

Model		SD77DX	SD77F
Machine Weights (inc. cabin and inside scraper)			
Operating Weight (CECE)	kg (lb)	7 415 (16,350)	8 063 (17,780)
Static Weight @ Drum	kg (lb)	3 855 (8,500)	4 503 (9,930)
Static Weight @ Tires	kg (lb)	3 560 (7,850)	3 560 (7,850)
Shipping Weight	kg (lb)	7 303 (16,103)	7 951 (17,533)
Machine Dimensions			
Length	mm (in)	5 044 (199)	5 044 (199)
Width	mm (in)	1 870 (74)	1 870 (74)
Height (top of cabin)	mm (in)	2 882 (113,5)	2 915 (114,5)
Wheelbase	mm (in)	2 673 (105)	2 673 (105)
Curb Clearance	mm (in)	385 (15)	385 (15)
Inside Turning Radius (to drum edge)	mm (in)	3 249 (128)	3 249 (128)
Drum			
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 ² (sq in)	-	125 (21)
Vibration			
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)	171 (38,500)
	Low	104 (23,300)	135 (30,300)
Nominal Amplitude	mm (in) High	1,98 (0,078)	1,98 (0,078)
	Low	1,2 (0,047)	1,33 (0,052)
Propulsion			
Type System		Hydrostatic, two-speed motor on planetary axle w/ No-Spin® differential and two-speed drum drive motor	
Drum Drive		2-speed, low-speed high-torque 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 R1
Travel Speed	km/h (mph) High	0 – 14,5 (0 – 9)	0 – 15,3 (0 – 9,5)
	Low	0 – 6,6 (0 – 4.1)	0 – 6,9 (0 – 4.3)
Engine			
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; 750 CCA battery	
Brakes			
Service		Dynamic hydrostatic through propulsion system	
Parking / Secondary		Spring-applied, hydraulically released on axle and drum drive motors	
Miscellaneous			
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)		55%	77%

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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