

VOLVO DOUBLE DRUM COMPACTORS

DD138HF, DD138HFA



A SMART NEW CHOICE FOR ASPHALT COMPACTION

The Volvo DD138HF and DD138HFA is a 13,5 tonne (14.9 ton), 2 135 mm (84") drum, high-frequency, high-amplitude, SMART asphalt compactor. Asphalt compaction today presents a range of challenges, from newer mix designs to heightened quality requirements to tighter timeframes. To compete successfully, you need a compactor that provides the extra versatility to turn these challenges to your advantage. Take control of the only compactor that is versatile enough for any mix.

Performance Features

- Constant 53,3 Hz (3,200 vpm) system allows high, predictable rolling speeds (Available only on DD138HF)
- Eccentric rotation automatically matches direction of travel, improving smoothness
- Excellent visibility with clear line-of-sight to the leading drum edge
- Exclusive machined drums with chamfered, radiused drum edges minimize drum edge marking and facilitate finish rolling
- Industry-leading centrifugal force of 188 kN (42,260 lb) for maximum compaction effort
- Patented Impact Spacing Meter provides operator with a visual reference for speed control to maintain proper impact spacing, resulting in consistent smoothness
- Premium shock and vibration isolated operator platform and ROPS / FOPS, with 5-position swivel console
- Smart start drum vibration system — vibration initiates with lead drum, followed by trailing drum for compaction efficiency

Operator Comfort

- Ergonomic design of switches and controls promotes smooth and efficient operation: lighted instrumentation makes evening and nighttime work easier
- Swivel console places controls within optimum reach: as part of the operator platform, a 5-position swivel console optimizes operator performance

Available Options

- Back-up alarm
- Cocoa mats
- Engine air pre-cleaner
- Engine grid heater
- Front and rear halogen work lights
- Fuel strainer
- High Intensity Discharge (HID) lighting with drum edge lighting
- Volvo infrared pavement surface temperature sensor
- Maintenance package
- Strobe light
- Urethane wipers
- Winterization kit



SPECIFICATIONS

Model		DD138HF	DD138HFA
Machine Weights (w/ ROPS / FOPS)			
Operating Weight (CECE)	kg (lb)	13 752 (30,325)	13 752 (30,325)
Weight @ Front Drum	kg (lb)	7 202 (15,880)	7 202 (15,880)
Weight @ Rear Drum	kg (lb)	6 551 (14,445)	6 551 (14,445)
Shipping Weight	kg (lb)	13 028 (28,722)	13 028 (28,722)
Machine Dimensions			
Length	mm (in)	5 995 (236)	5 995 (236)
Width	mm (in)	2 337 (92)	2 335 (92)
Height — Top Of Steering Wheel	mm (in)	2 382 (93.8)	2 382 (93.8)
Height — Top Of ROPS / FOPS	mm (in)	3 179 (125.2)	3 179 (125.2)
Drum Base	mm (in)	3 550 (139.8)	3 550 (139.8)
Curb Clearance	mm (in)	509 (20)	509 (20)
Inside Turning Radius (to drum edge)	mm (in)	4 562 (179.6)	4 560 (179.6)
Drum			
Width	mm (in)	2 135 (84)	2 135 (84)
Diameter	mm (in)	1 400 (55.1)	1 400 (55.1)
Shell Thickness (nominal)	mm (in)	20 (0.78)	20 (0.78)
Finish		Machined surface; chamfered & radiused edges	
Vibration			
Frequency	Hz (vpm)	53,3 (3,200)	45 – 66,7 (2,700 – 4,000)
Nominal Amplitude	mm (in) High	0,63 (0.025)	0,88 (0.035)
	Low	0,33 (0.013)	0,35 (0.014)
Centrifugal Force	kN (lb) High	188 (42,260)	186 (41,720)
	Low	97,1 (21,840)	163 (36,680)
Propulsion			
Type		Closed-loop hydrostatic, parallel circuit to both drums	
Drum Drive		Heavy-duty radial piston LSHT motors; 2-speed rear motor	
Travel Speed	km/h (mph) High	0 – 11,3 (0 – 7.0)	0 – 11,3 (0 – 7.0)
	Low	0 – 8,5 (0 – 5.3)	0 – 8,5 (0 – 5.3)
Engine			
Make / Model		Cummins QSB 6.7 Tier 3	
Engine Type		Turbocharged & charge air-cooled 6-cylinder	
Rated Power @ Installed Speed	kW (hp)	129 (173)	129 (173)
Electrical		12 volts DC, negative ground; 95 A alternator	
Battery		2 absorbed electrolytic, 800 CCA	
Brakes			
Service		Dynamic hydrostatic through propulsion system	
Parking / Secondary		SAHR on front-drum & rear-drum drive motors	
Water System			
Type		Pressure spray drum wetting system with LDPE water tanks	
Pumps		Diaphragm water pumps, primary & secondary for each drum	
Spray Bars		Primary & secondary spray bars for each drum	
Nozzles		Hand-serviceable fan spray nozzles; 12 per spray bar	
Filtration		Sock strainer each tank; primary water filter each pump, fine filter each nozzle	
Drum Wipers		Front & rear rubber wipers for each drum	
Water Tank Capacity	l (gal)	1 241 (328)	1 241 (328)
Miscellaneous			
Articulation Angle (center pivot steering)		+ / - 35°	+ / - 35°
Oscillation Angle		+ / - 10°	+ / - 10°
Fuel Tank Capacity	l (gal)	259 (68.4)	259 (68.4)
Hydraulic Oil Capacity	l (gal)	121,1 (32)	121,1 (32)
Gradeability (theoretical)		32%	32%

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.

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