**VOLVO DOUBLE DRUM COMPACTORS** 

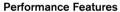
# DD138HF, DD138HFA





## 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.



- 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





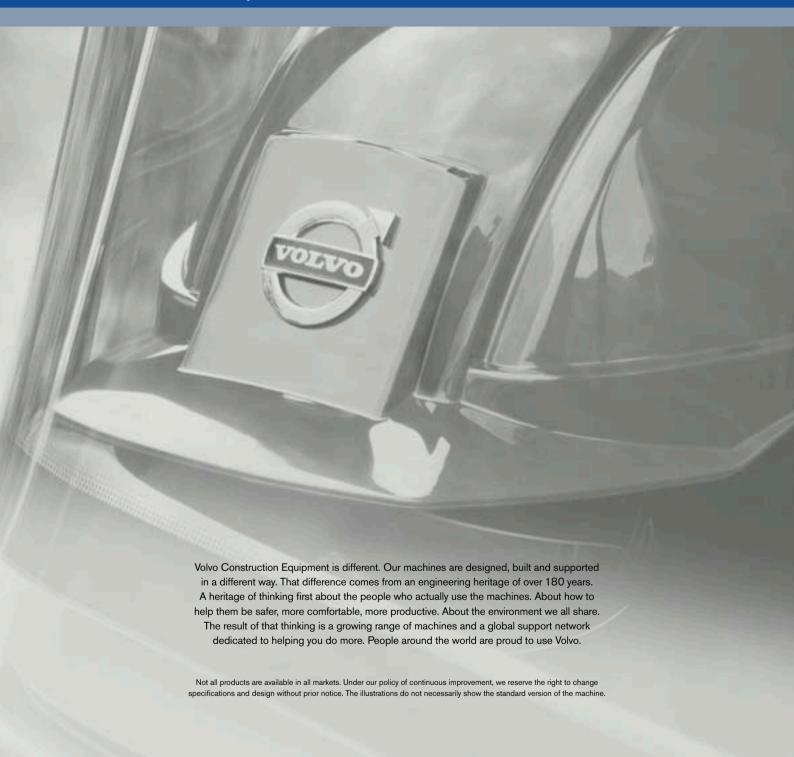


## **SPECIFICATIONS**

Model		DD138HF	DD138HFA
Machine Weights (w/ ROPS / FOPS)			
Operating Weight (CECE)	kg (lb)	13 752 <b>(30,325)</b>	13 752 <b>(30,325)</b>
Weight @ Front Drum	kg (lb)	7 202 (15,880)	7 202 <b>(15,880)</b>
Weight @ Rear Drum	kg (lb)	6 551 <b>(14,445)</b>	6 551 <b>(14,445)</b>
Shipping Weight	kg (lb)	13 028 <b>(28,722)</b>	13 028 <b>(28,722)</b>
Machine Dimensions			
Length	mm (in)	5 995 <b>(236)</b>	5 995 <b>(236)</b>
Width	mm (in)	2 337 <b>(92)</b>	2 335 <b>(92)</b>
Height — Top Of Steering Wheel	mm (in)	2 382 <b>(93.8)</b>	2 382 <b>(93.8)</b>
Height — Top Of ROPS / FOPS	mm (in)	3 179 <b>(125.2)</b>	3 179 <b>(125.2)</b>
Drum Base	mm (in)	3 550 <b>(139.8)</b>	3 550 <b>(139.8)</b>
Curb Clearance	mm (in)	509 <b>(20)</b>	509 <b>(20)</b>
Inside Turning Radius (to drum edge)	mm (in)	4 562 <b>(179.6)</b>	4 560 <b>(179.6)</b>
Drum			
Width	mm (in)	2 135 <b>(84)</b>	2 135 <b>(84)</b>
Diameter	mm (in)	1 400 <b>(55.1)</b>	1 400 <b>(55.1)</b>
Shell Thickness (nominal)	mm (in)	20 <b>(0.78)</b>	20 (0.78)
Finish		Machined surface; chan	nfered & radiused edges
Vibration		,	
Frequency	Hz <b>(vpm)</b>	53,3 <b>(3,200)</b>	45 - 66,7 <b>(2,700 - 4,000)</b>
Nominal Amplitude	mm (in) High	0,63 <b>(0.025)</b>	0,88 <b>(0.035)</b>
Tronmar / unpintado	Low	0,33 <b>(0.013)</b>	0,35 (0.014)
Centrifugal Force	kN (lb) High	188 <b>(42,260)</b>	186 <b>(41,720)</b>
	Low	97,1 <b>(21,840)</b>	163 <b>(36,680)</b>
Propulsion			·
Туре		Closed-loop hydrostatic, parallel circuit to both drums	
Drum Drive		Heavy-duty radial piston LSHT motors; 2-speed rear motor	
Travel Speed	km/h <b>(mph)</b> High Low	0 - 11,3 <b>(0 - 7.0)</b> 0 - 8,5 <b>(0 - 5.3)</b>	0 - 11,3 <b>(0 - 7.0)</b> 0 - 8,5 <b>(0 - 5.3)</b>
Engine		·	·
Make / Model		Cummins QSB 6.7 Tier 3	
Engine Type		Turbocharged & charge air-cooled 6-cylinder	
Rated Power @ Installed Speed	kW (hp)	129 <b>(173)</b>	129 (173)
Electrical	()		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		o, a ne on none drain d	Total didni dilice motore
Туре		Pressure spray drum wetting	l system with LDPE water tanks
Pumps		Pressure spray drum wetting system with LDPE water tanks 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	
		Sock strainer each tank; primary water filter each pump, fine filter each nozzle	
Filtration Drum Wipers		Front & rear rubber wipers for each drum	
Water Tank Capacity	∣ (gal)	1 241 <b>(328)</b>	1 241 <b>(328)</b>
Miscellaneous	(gai)	1 241 (320)	1 241 (320)
		1 / 250	. / 250
Articulation Angle (center pivot steering)		+ / - 35°	+ / - 35°
Oscillation Angle		+ / - 10°	+ / - 10°
Fuel Tank Capacity	(gal)	259 <b>(68.4)</b>	259 <b>(68.4)</b>
Hydraulic Oil Capacity	∣ (gal)	121,1 <b>(32)</b>	121,1 <b>(32)</b>
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** 

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