

VOLVO DOUBLE DRUM COMPACTOR

DD112HF



THE FUTURE OF DUAL AMPLITUDES

The Volvo DD112HF is a 12 tonne (13.2 ton), 2 000 mm (78.7") drum, dual-amplitude, high-frequency asphalt hot mix compactor. The high-frequency design allows for faster rolling speeds to deliver maximum productivity and keep up with today's faster paving speeds. Dual amplitude allows the operator to easily select between high amplitude for thick lift jobs and low amplitude for light overlay work.



Performance Features

- Complete access to engine compartment through rear-hinged, 1-piece composite engine hood
- Exclusive machined drums with chamfered, radiused drum edges minimize drum edge marking
- High frequency of 70 Hz (4,200 vpm) offers the industry's fastest rolling speed with vibration
- Industry-leading centrifugal force of 187,1 kN (42,070 lb) for maximum compaction
- Patented Impact Spacing Meter provides operator with visual reference for speed control to maintain proper impact spacing, resulting in consistent smoothness
- SMART start drum vibration system — vibration initiates with lead drum, followed by trailing drum for compaction efficiency
- Superior drum spray system to maintain maximum productivity
 - 10 spray nozzles on each spray bar, more closely spaced for better drum coverage
 - Dual drum wipers as standard equipment
 - Independent primary and secondary spray systems
 - Variable waterflow control to conserve water

Operator Comfort

- ONE METER BY ONE METER visibility around the unit
- Premium shock- and vibration-isolated operator platform and ROPS / FOPS, with 5-position swivel console
- ROPS / FOPS support legs positioned for unobstructed side visibility
- Ergonomic design of switches and controls promotes smooth and efficient operations
- Lighted instrumentation makes evening and nighttime work easier
- Swivel console places controls within optimum reach

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	DD112HF	
Machine Weights (w/ ROPS / FOPS)		
Operating Weight (CECE)	kg (lb)	12 548 (27,670)
Weight @ Front Drum	kg (lb)	6 596 (14,545)
Weight @ Rear Drum	kg (lb)	5 952 (13,125)
Shipping Weight	kg (lb)	11 836 (26,100)
Machine Dimensions		
Length	mm (in)	5 995 (236)
Width	mm (in)	2 210 (87)
Height — Top Of Steering Wheel	mm (in)	2 372 (93.4)
Height — Top Of ROPS / FOPS	mm (in)	3 160 (124.4)
Drum Base	mm (in)	3 550 (139.8)
Curb Clearance	mm (in)	510 (20)
Inside Turning Radius (to drum edge)	mm (in)	3 772 (148.5)
Drum		
Width	mm (in)	2 000 (78.7)
Diameter	mm (in)	1 400 (55.1)
Shell Thickness (nominal)	mm (in)	20 (0.78)
Finish	Machined surface; chamfered & radiused edges	
Vibration		
Frequency	Hz (vpm) High Low	70 (4,200) 50 (3,000)
Nominal Amplitude	mm (in) High Low	0,8 (0.031) 0,32 (0.013)
Centrifugal Force	kN (lb) High Low	187,1 (42,070) 147,2 (33,090)
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 Low	0 – 10,8 (0 – 6.7) 0 – 8,1 (0 – 5.1)
Engine		
Make / Model	Cummins QSB4.5 Tier 3	
Engine Type	Turbocharged & charge air-cooled 4-cylinder	
Rated Power @ Installed Speed	kW (hp)	110,4 (148)
Electrical	12 volts DC, negative ground; 95 A alternator	
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; 10 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)
Miscellaneous		
Articulation Angle (center pivot steering)	+ / - 40°	
Oscillation Angle	+ / - 10°	
Fuel Tank Capacity	l (gal)	201 (53)
Hydraulic Oil Capacity	l (gal)	115,5 (30.5)
Gradeability (theoretical)	36%	

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.

VOLVO

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