

VOLVO DOUBLE DRUM COMPACTORS
DD118HF, DD118HFA



EXPERIENCE THE POWER OF PRODUCTIVITY

Volvo offers two high-frequency hot mix asphalt compactors designed for the modern workload. The DD118HF is a 12 tonne (13.2 ton) compactor with a 2 000 mm (78.7") drum, and its high-frequency design gives you faster rolling speeds to deliver maximum productivity with today's faster paving speeds. The DD118HFA model offers all that plus our exclusive 8-amplitude technology, allowing you to fine-tune drum energy for a variety of materials and conditions.

Performance Features

- Complete access to engine compartment through rear-hinged, one-piece composite engine hood
- Exclusive machined drums with chamfered, radiused drum edges to minimize drum edge marking and facilitate finish rolling
- Excellent sightlines with ONE METER BY ONE METER visibility around the unit
- Patented impact spacing meter provides operator with a visual reference for speed control to maintain proper impact spacing and consistent smoothness
- ROPS / FOPS support legs positioned for unobstructed side visibility; operator seat furnished with safety belt and seat contact switch
- Premium shock- and vibration-isolated operator platform and ROPS / FOPS with five-position swivel console
- Front and rear halogen work lights (optional on DD118HF)
- Infrared pavement surface temperature sensor (optional on DD118HF)
- Lighted operator console for nighttime operation
- Two independent water systems with 10 nozzles on each spray bar keep the drum surface protected at all times; variable waterflow control conserves water, reduces fill-ups
- Eccentric rotation automatically matches direction of travel, improving smoothness
- SMART drum vibration starts with the lead drum, then follows with the rear drum to increase compaction efficiency and avoid damage to cold material

- Control propulsion, which allows the operator to set the desired impact spacing. Speed is automatically configured to maintain smoothness with any amplitude setting, thus increasing productivity. (DD118HFA only)
- Drum technology that enables the operator to set one of eight drum amplitude settings. The frequency is automatically adjusted to the optimal performance level. (DD118HFA only)

Options

- Back-up alarm
- Cocoa mats
- Engine air pre-cleaner
- Engine grid heater
- Fuel strainer
- High-intensity discharge lighting with drum edge lighting
- Maintenance package
- Strobe light
- Urethane wipers
- Winterization kit

Operating Comfort and Control

Ergonomic design of switches and controls promotes smooth and efficient operation. Lighted instrumentation makes evening and nighttime work easier.

As part of the operator platform, a five-position swivel console places controls within easy reach to optimize operator performance.



SPECIFICATIONS

| Model | | DD118HF | DD118HFA |
|--------------------------------------------|-----------------|----------------------------------------------------------------------------------|-------------------------|
| Machine Weights (w/ ROPS / FOPS) | | | |
| Operating Weight (CECE) | kg (lb) | 12 548 (27,670) | 12 548 (27,670) |
| Weight @ Front Drum | kg (lb) | 6 596 (14,545) | 6 596 (14,545) |
| Weight @ Rear Drum | kg (lb) | 5 952 (13,125) | 5 952 (13,125) |
| Shipping Weight | kg (lb) | 11 836 (26,100) | 11 836 (26,100) |
| Machine Dimensions | | | |
| Length | mm (in) | 5 995 (236) | 5 995 (236) |
| Width | mm (in) | 2 210 (87) | 2 210 (87) |
| Height — Top Of Steering Wheel | mm (in) | 2 372 (93.4) | 2 372 (93.4) |
| Height — Top Of ROPS / FOPS | mm (in) | 3 160 (124.4) | 3 160 (124.4) |
| Drum Base | mm (in) | 3 550 (139.8) | 3 550 (139.8) |
| Curb Clearance | mm (in) | 510 (20) | 510 (20) |
| Inside Turning Radius (to drum edge) | mm (in) | 3 772 (148.5) | 3 772 (148.5) |
| Drum | | | |
| Width | mm (in) | 2 000 (78.7) | 2 000 (78.7) |
| 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 (rpm) | 56,67 (3,400) | 50 - 70 (3,000 - 4,200) |
| Nominal Amplitude | mm (in) High | 0,63 (0.025) | 0,8 (0.031) |
| | Low | 0,34 (0.013) | 0,32 (0.013) |
| Centrifugal Force | kN (lb) High | 190 (42,680) | 187,1 (42,070) |
| | Low | 102 (22,980) | 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 | 0 - 10,8 (0 - 6.7) | 0 - 11,3 (0 - 7) |
| | Low | 0 - 8,1 (0 - 5.1) | 0 - 8,5 (0 - 5.3) |
| Engine | | | |
| Make / Model | | Cummins QSB 4.5 | Cummins QSB 4.5 |
| Engine Type | | Turbocharged & charge air-cooled 4-cylinder | |
| Rated Power @ Installed Speed | kW (hp) | 110,4 (148) | 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 and secondary for each drum | |
| Spray Bars | | Primary and 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) | 1 241 (328) |
| Miscellaneous | | | |
| Articulation Angle (center pivot steering) | | + / - 40° | + / - 40° |
| Oscillation Angle | | + / - 10° | + / - 10° |
| Fuel Tank Capacity | l (gal) | 201 (53) | 201 (53) |
| Hydraulic Oil Capacity | l (gal) | 116,6 (30.8) | 115,6 (30.5) |
| Gradeability (theoretical) | | 36% | 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.

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