

VOLVO DOUBLE DRUM COMPACTORS

# DD90, DD90HF



**MORE CARE. BUILT IN.**



# WHAT YOU NEED TO GET THE JOB DONE RIGHT

The Volvo DD90 and DD90HF vibratory asphalt compactors have 1 675 mm (66") drums and provide high performance for highway and other large paving projects. The DD90 has a frequency of 41,7 Hz (2,500 vpm) and a nominal capacity of up to 227 tonnes (250 tons) of HMA per hour. The DD90HF, with a frequency of 63,3 Hz (3,800 vpm), has a nominal capacity up to 290 tonnes (325 tons) of HMA per hour. And with operating weights of nearly 9,8 tonnes (11 tons), the DD90 and DD90HF compactors meet most agency static weight requirements.

## Performance Features

- Dual frequency vibration systems of 41,7 / 30,8 Hz (2,500 / 1,850 vpm) on the DD90 and 63,3 / 47,5 Hz (3,800 / 2,850 vpm) on the DD90HF match machine performance to production requirements
- Eight amplitude settings achieve required compaction throughout deep lifts and/or stiffer mix designs
- Five-position rotating operator's station with an adjustable seat provides a smooth ride and comfortable operating environment
- Two complete, independent water systems include triple water filtration, four water pumps, four spray bars, and variable waterflow
- Eccentric rotation automatically matches direction of travel, improving smoothness
- Patented Impact Spacing Meter provides a visual reference for speed control to maintain proper impact spacing, resulting in consistent smoothness
- Exclusive machined drums with chamfered, radiused drum edges minimize drum edge marking and facilitate finish rolling

## Standard Features

- ROPS / FOPS with seat belt
- Superior drum spray system to maintain maximum productivity
  - Variable waterflow control to conserve water
  - Independent primary and secondary spray systems (each with separate water pumps, water filters, distribution lines, and spray bars with hand-serviceable nozzles)
  - Water tank level LED indicators
- Unobstructed engine access through swing-up hood and removable side panels
- Vibration-isolated operator platform

## Additional Options

- Air precleaner
- Back-up alarm
- Cocoa mats
- HID night operating lights
- Hydraulic oil temperature gauge
- Infrared pavement temperature sensor
- Inside wipers scraper kit
- Operator platform spray shield
- Outside urethane wipers
- Special paint
- Speed limiter
- Speedometer / tachometer
- Speedometer / VPM meter
- Beacon light
- Turn signals and flashers
- Work lights



# SPECIFICATIONS

| Model                                      |            | DD90   | DD90HF                         |
|--|------------|--|--------------------------------|
| <b>Machine Weight (w/ ROPS / FOPS)</b>     |            |  |                                |
| Operating Weight                           | kg (lb)    | 9 895 (21,820)   | 9 845 (21,705)                 |
| Static Weight @ Front Drum                 | kg (lb)    | 5 155 (11,370)   | 5 115 (11,280)                 |
| Static Weight @ Rear Drum                  | kg (lb)    | 4 740 (10,450)   | 4 730 (10,425)                 |
| Shipping Weight                            | kg (lb)    | 9 105 (20,075)   | 9 105 (20,075)                 |
| <b>Dimensions</b>                          |            |  |                                |
| Overall Length                             | mm (in)    | 5 085 (200.2)  | 5 085 (200.2)                  |
| Overall Width                              | mm (in)    | 1 910 (75.2)   | 1 910 (75.2)                   |
| Overall Height (top of steering wheel)     | mm (in)    | 2 210 (87)   | 2 210 (87)                     |
| Overall Height (top of ROPS / FOPS)        | mm (in)    | 2 845 (112)  | 2 845 (112)                    |
| Drum Base                                  | mm (in)    | 3 200 (126)  | 3 200 (126)                    |
| Curb Clearance                             | mm (in)    | 430 (17)   | 430 (17)                       |
| Side Clearance                             | mm (in)    | 1 175 (4.6)  | 1 175 (4.6)                    |
| Inside Turning Radius (to drum edge)       | mm (in)    | 3 560 (140)  | 3 560 (140)                    |
| <b>Drums</b>                               |            |  |                                |
| Width                                      | mm (in)    | 1 675 (66)   | 1 675 (66)                     |
| Diameter                                   | mm (in)    | 1 220 (48)   | 1 220 (48)                     |
| Shell Thickness (nominal)                  | mm (in)    | 19 (0.75)  | 19 (0.75)                      |
| Finish                                     |            | Machined surface; chamfered & radiused edges                               |                                |
| <b>Vibration</b>                           |            |  |                                |
| Frequency                                  | Hz (vpm)   | 41,7 / 30,8 (2,500 / 1,850)  | 63,3 / 47,5 (3,800 / 2,850)    |
| Amplitude                                  | mm (in)    | 0,41 - 1,02 (0.016 - 0.040)  | 0,48 - 0,64 (0.019 - 0.025)    |
| Centrifugal Force Range                    | kN (lb)    | 26,0 - 115,6 (5,840 - 26,000)  | 71,3 - 171,0 (16,030 - 38,430) |
| Amplitude Settings                         |            | 8  | 8                              |
| <b>Propulsion</b>                          |            |  |                                |
| Type                                       |            | Closed-loop hydrostatic, parallel circuit to both drums                    |                                |
| Drum Drive                                 |            | Heavy-duty radial piston LSHT motors                                       |                                |
| Travel Speed                               | km/h (mph) | 0 - 11,8 (0 - 7.4)   | 0 - 13,3 (0 - 8.3)             |
| <b>Engine</b>                              |            |  |                                |
| Make / Model                               |            | Cummins QSB 4.5, Tier 3  |                                |
| Engine Type                                |            | Turbocharged 4-cylinder  |                                |
| Rated Power @ Installed Speed              | kW (hp)    | 96,9 (130)   | 96,9 (130)                     |
| Electrical                                 |            | 12 volts DC, negative ground; 95 A alternator                              |                                |
| Battery                                    |            | 2 absorbed electrolytic, 800 CCA   |                                |
| <b>Brakes</b>                              |            |  |                                |
| Service                                    |            | Dynamic hydrostatic through propulsion system                              |                                |
| Parking / Secondary                        |            | SAHR on front-drum & rear-drum drive motors                                |                                |
| <b>Water System</b>                        |            |  |                                |
| 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; 7 main, 6 auxiliary per spray bar      |                                |
| Filtration                                 |            | Basket strainer each tank, water filter each pump, fine filter each nozzle |                                |
| Drum Wipers                                |            | Rubber wiper for each drum   |                                |
| Water Tank Capacity                        | l (gal)    | 984 (260)  | 984 (260)                      |
| <b>Miscellaneous</b>                       |            |  |                                |
| Articulation Angle (center pivot steering) |            | + / - 40°  | + / - 40°                      |
| Oscillation Angle                          |            | + / - 10°  | + / - 10°                      |
| Fuel Capacity                              | l (gal)    | 170 (45)   | 170 (45)                       |
| Hydraulic Oil Capacity                     | l (gal)    | 133 (35)   | 133 (35)                       |
| Gradeability (theoretical)                 |            | 24.8%  | 25.0%                          |

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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