

DD-110HF Vibratory Asphalt Compactor



The DD-110HF features dual 78 inch (1980mm) wide drums with 3350 vpm (55.8 Hz) frequency for fast rolling speeds and smooth surface finish. The unit provides high performance capacity for highway and other large paving jobs. Twelve and one-half tons (11.5 metric tonnes) of static weight meet D.O.T. static rolling requirements for increased machine utilization. The DD-110HF has a nominal capacity up to 380 tons (350 metric tonnes) of HMA per hour. A rolling width of 78 inches (1980 mm) permits coverage of 12 feet (3.66 meters) wide paved panels in two passes side-by-side. Drum diameter of 54 inches (1370 mm) reduces rolling resistance for superior performance on thin lifts, tender mixes or thick lifts of harsh mixes.

Standard Features

- Adjustable vibration on/off speeds of 0.5, 1.0, 1.5, 2.0 mph (0.8, 1.6, 2.4, 3.2 km/hr)
- Automatic reversing eccentric rotation
- Dual vibration frequency of 3350 vpm (55.8 Hz) and 2500 vpm (47.5 Hz)
- Eight-position variable amplitude settings
- Five-position rotating operator's module with adjustable seat
- Four-cylinder turbocharged and aftercooled diesel engine
- Machined drums, chamfered drum edges
- Polyethylene water tanks, 320 gallon (1210 liter) capacity
- Patented Impact Meter to provide consistent spacing of drum vibration impacts for uniform compaction of HMA
- Standard ROPS/FOPS and seat belt
- Two complete, independent water systems with triple water filtration, four water pumps four spray bars and variable water flow; automatic water control; water level indicator

Specifications

Machine Weights (with ROPS/FOPS)

Operating Weight	25,360 lb.	(11500 kg)
Static Weight at Front Drum	13,295 lb.	(6030 kg)
Static Weight at Rear Drum	12,065 lb.	(5470 kg)
Shipping Weight	23,605 lb.	(10705 kg)

Machine Dimensions

Overall Length	222.5 in.	(5650 mm)
Overall Width	87.2 in.	(2215 mm)
Overall Height top of steering wheel	95.5 in.	(2425 mm)
Overall Height top of ROPS/FOPS	124.7 in.	(3165 mm)
Drum Base	132 in.	(3350 mm)
Curb Clearance	20.5 in.	(520 mm)
Outside Turning Radius (drum edge)	225.8 in.	(5735 mm)

Drum

Rolling Width	78 in.	(1980 mm)
Overall Diameter	54 in.	(1370 mm)
Shell Thickness	0.75 in.	(19 mm)
Finish	Machined/chamfered edges	

Vibration

Frequency		
low	2500 vpm	(41.7 Hz)
high	3350 vpm	(55.8 Hz)
Centrifugal Force		
maximum per drum	36,650 lb.	(163 kN)
minimum per drum	15,920 lb.	(71 kN)
Amplitude Settings	Eight	
Nominal Amplitude		
maximum	0.025 in.	(0.63 mm)
minimum	0.015 in.	(0.38 mm)

Propulsion

Type System	Closed-loop hydrostatic	
Drum Drive	Low speed, high torque motor, both drums	
Speed	0-7.9 mph	(0-12.8 km/hr)
Gradeability (theoretical)	28%	

Engine

Make & Model	Cummins B3.9-C	
Rated Power @ 2200 rpm	125 hp (93 kW) @ 2200 rpm	
Electrical System	12-volt DC, negative ground	

Brakes

Service	Dynamic hydrostatic through propulsion system	
Parking/Secondary	Spring-Applied, Hydraulically Released (SAHR) on each drum	

Steering

Design	Centerpoint articulation	
Type System	Hydrostatic	
Articulation Angle	+/- 40°	

Water System

Type	Pressurized, with variable flow control	
Pumps	Four electric diaphragm	
Nozzles		
(hand-serviceable)	8 main, 7 auxiliary per drum	
Filters	Three	
Tank Capacity	320 gal.	(1210 liters)

Miscellaneous Specifications

Fuel Capacity	45 gal.	(170 liters)
Hydraulic Oil Capacity	35 gal.	(132 liters)
Oscillation Angle	+/- 10°	

Selected Options

- Back-up alarm
- Beacon light
- Custom painting
- Cocoa mats
- Front and rear working lights
- HID night operating lights
- Infrared temperature sensor
- Inside wiper bars
- Speed limiter
- Speedometer/tachometer
- Speedometer/vpm meter
- Contact plant for additional options

