

## DD-110 Vibratory Asphalt Compactor



The DD-110 features dual 78 inch (1980 mm) wide drums and provides high performance capability for highway and other large paving jobs. This rolling width permits coverage of pavement panels up to 12 feet 6 inches (3.8 meters) in two side-by-side passes for optimum productivity. Large 54 inches (1.4 meters) drum diameter reduces rolling resistance and produces unsurpassed pavement surface smoothness. Twelve and one-half tons (11.4 metric tonnes) of static weight meet D.O.T. static rolling requirements for increased machine utilization. The DD-110 has a nominal capacity up to 285 tons (260 metric tons) of HMA per hour.

### Standard Features

- Adjustable automatic vibration on/off speeds of 0.5, 1, 1.5, 2 mph (0.8, 1.6, 2.4, 3.2 km/hr)
- Automatic on/off water spray
- Automatic reversing eccentric rotation
- Dual vibration frequency of 2500 vpm (41.7 Hz) and 1850 vpm (30.8 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 gallons (1210 liters) capacity with lighted water level indicators
- Patented Impact Meter to provide consistent spacing of drum vibration impacts for uniform compaction of HMA
- Standard ROPS/FOPS and seatbelt
- Two complete, independent water systems with triple water filtration, four water pumps, four spray bars and variable water flow
- Unobstructed engine access through swing-up hood
- Vibration isolated operator platform

## DD-110 Specifications

### Machine Weights (with ROPS/FOPS)

Operating Weight	25,315 lb.	(11480 kg)
Static Weight		
at Front Drum	13,400 lb.	(6075 kg)
Static Weight		
at Rear Drum	11,915 lb.	(5405 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	230.4 in.	(5850 mm)

### Drum

Drum Width	78 in.	(1980 mm)
Drum Diameter	54 in.	(1370 mm)
Shell Thickness		
(nominal)	0.75 in.	(19 mm)
Finish	Machined/chamfered edge	

### Vibration

Frequency		
High	2500 vpm	(42 Hz)
Low	1850 vpm	(31 Hz)
Centrifugal Force		
Max/drum	30,000 lb.	(133.4 kN)
Min/drum	8,030 lb.	(35.7 kN)
Amplitude Settings	Eight	Eight
Nominal Amplitude		
Max	.037 in.	(0.94 mm)
Min	.018 in.	(0.46 mm)

### Propulsion

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

### Engine

Make & Model	Cummins B3.9	
Rated Power	125 hp @ 2200 rpm (93 kW)	
Electrical System	12-volt DC, negative ground 2 batteries	

### Brakes

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

### Steering

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

### Water System

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

### Miscellaneous Specifications

Fuel Capacity	45 gal.	(170 liters)
Hydraulic Oil Capacity	40 gal.	(150 liters)
Oscillation Angle	+/- 10°	

## Options

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

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