



# DD-138HA

*Large Asphalt Compactors*



*Moving the  
World Forward*

# Continuous innovation for changing times

The Ingersoll Rand DD-138HA is a 13.5-tonnes, 84-inch drum, high-amplitude hot mix asphalt compactor. Designed with exclusive 8-amplitude technology, the DD-138HA fine-tunes drum energy for differing materials and changing conditions. Adjusting drum amplitude by only a thousandth of an inch can mean the difference between achieving required density or fracturing aggregate particles in the mix. Eight amplitudes are not a luxury when you consider what's at stake.



MODEL		DD-138HA
<b>MACHINE WEIGHTS W/ ROPS / FOPS</b>		
Operating Weight (CECE) – lb (kg)		30,325 (13752)
Weight @ Front Drum – lb (kg)		15,880 (7202)
Weight @ Rear Drum – lb (kg)		14,445 (6551)
Shipping Weight – lb (kg)		28,728 (13028)
<b>MACHINE DIMENSIONS</b>		
Length – in (mm)		236 (5995)
Width – in (mm)		92 (2337)
Height — Top Of Steering Wheel – in (mm)		93.8 (2382)
Height — Top Of ROPS / FOPS – in (mm)		125.2 (3179)
Drum Base – in (mm)		139.8 (3550)
Curb Clearance – in (mm)		20 (509)
Inside Turning Radius (to drum edge) – in (mm)		179.6 (4562)
<b>DRUM</b>		
Width – in (mm)		84 (2135)
Diameter – in (mm)		55.1 (1400)
Shell Thickness (nominal) – in (mm)		0.78 (20)
Finish – in (mm)		Machined surface; chamfered & radiused edges
<b>VIBRATION</b>		
Frequency – vpm (Hz)		2,700 (45)
Nominal Amplitude – in (mm)	High	0.035 (0.88)
	Low	0.014 (0.35)
Centrifugal Force – lb (kN)	High	41,720 (186)
	Low	16,710 (74)
<b>PROPULSION</b>		
Type System	Closed-loop hydrostatic, parallel circuit to both drums	
Drum Drive	Heavy-duty radial piston LSHT motors; 2-speed rear motor	
Travel Speed – mph (km/h)	High	0 – 6.6 (0 – 10.6)
	Low	0 – 5 (0 – 8)
<b>ENGINE</b>		
Make / Model	Cummins B5.9-TAA	
Engine Type	Turbocharged & charge air-cooled 6-cylinder	
Rated Power @ 2,200 rpm – hp (kW)	173 (129)	
Electrical System	12 V DC, negative ground; 95 A alternator	
<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; 12 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 – gal (L)	328 (1241)	
<b>MISCELLANEOUS</b>		
Articulation Angle (center pivot steering)	+ / - 35°	
Oscillation Angle	+ / - 10°	
Fuel Tank Capacity – gal (L)	68.4 (259)	
Hydraulic Oil Capacity – gal (L)	32 (121.1)	
Gradeability (theoretical)	32%	

## PERFORMANCE FEATURES

- Complete access to engine compartment through rear-hinged, 1-piece composite engine hood
- Eccentric rotation automatically matches direction of travel, improving smoothness
- Exclusive machined drums with chamfered, radiused drum edges minimize drum edge marking
- Higher range of amplitudes achieve required compaction of deep lifts and/or stiffer mix designs
- 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, resulting in consistent smoothness
- Premium shock- and vibration-isolated operator platform and ROPS / FOPS, with 5-position swivel console
- ROPS / FOPS support legs positioned for unobstructed side visibility
- 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
  - 12 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

## 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
- Infrared pavement surface temperature sensor
- Maintenance package
- Strobe light
- Urethane wipers
- Winterization kit

Product improvement is a continuing goal at Ingersoll Rand. Designs and specifications are subject to change without notice or obligation.



## OPERATING COMFORT AND CONTROL

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

Swivel console places controls within optimum reach. As part of the operator platform, a 5-position swivel console optimizes operator performance.



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