



# DD-158HFA

*Large Asphalt Compactors*



*Moving the  
World Forward*

# The ultimate SMART solution for any application

The Ingersoll Rand DD-158HFA is a 15.3-tonnes, 84-inch drum, high-frequency, high-amplitude, SMART asphalt compactor. Asphalt compaction today presents a range of challenges, from newer mix designs to heightened quality requirements to tighter timeframes. To compete successfully, you need a compactor that provides the extra versatility to turn these challenges to your advantage.

## MODEL

## DD-158HFA

### MACHINE WEIGHTS W/ ROPS / FOPS

Operating Weight (CECE) – lb (kg)	33,810 (15333)
Static Weight @ Front Drum – lb (kg)	17,585 (7975)
Static Weight @ Rear Drum – lb (kg)	16,225 (7358)
Shipping Weight – lb (kg)	32,213 (14609)

### MACHINE DIMENSIONS

Length – in (mm)	244 (6195)
Width – in (mm)	92 (2337)
Height – Top Of Steering Wheel – in (mm)	96.1 (2442)
Height – Top Of ROPS / FOPS – in (mm)	126 (3202)
Drum Base – in (mm)	144 (3660)
Curb Clearance – in (mm)	22 (560)
Inside Turning Radius (to drum edge) – in (mm)	187 (4746)

### DRUM

Width – in (mm)	84 (2134)
Diameter – in (mm)	59 (1500)
Shell Thickness (nominal) – in (mm)	1 (25)
Finish	Machined drum surface; chamfered & radiused drum edges

### VIBRATION

Frequency – vpm (Hz)	2,500 – 3,400 (41.7 – 56.7)	
Nominal Amplitude – in (mm)	High	0.035 (0.88)
	Low	0.016 (0.4)
Centrifugal Force – lb (kN)	High	44,910 (200)
	Low	38,280 (170)

### PROPULSION

Type	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)	0 – 6.9 (0 – 11.1)	
Compaction Speed – mph (km/h)	0 – 5.2 (0 – 8.3)	

### ENGINE

Make & Model	Cummins Q5B6.7	
Engine Type	Turbocharged & charge air-cooled 6-cylinder	
Rated Power @ 2,200 rpm – hp (kW)	185 (138)	
Electrical	12 V 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 & 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)	

### MISCELLANEOUS

Articulation Angle (center pivot steering)	+ / - 35°
Oscillation Angle	+ / - 10°
Fuel Capacity – gal (L)	68.4 (258.9)
Hydraulic Oil Capacity – gal (L)	32 (121.1)
Gradeability (theoretical)	26%

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

## PERFORMANCE FEATURES

- Complete access to engine compartment through rear-hinged, 1-piece composite engine hood
- Excellent visibility with clear line-of-sight to the leading drum edge
- Exclusive machined drums with chamfered, radiused drum edges to minimize drum edge marking and facilitate finish rolling
- Front and rear halogen work lights provide illumination for low-light operating conditions
- Ingersoll Rand infrared pavement surface temperature sensor
- Lighted operator console for improved visibility while operating at night
- Patented Impact Spacing Meter provides the operator with a visual reference of 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 prove a smooth ride and comfortable operator environment
- ROPS / FOPS support legs positioned to provide unobstructed side visibility; premium operator seat furnished with safety belt and seat contact switch

## AVAILABLE OPTIONS

- Back-up alarm
- Cocoa mats
- Engine air precleaner
- Engine grid heater
- Fuel strainer
- GPS system
- High Intensity Discharge (HID) lighting with drum edge lighting
- Maintenance package
- Strobe light
- Urethane wipers
- Winterization kit

## SMART FEATURES

**Control propulsion** allows the operator to set the desired impact spacing and speed is automatically configured to maintain smoothness with any amplitude setting to increase productivity.

**Drum technology** allows the operator to set one of eight drum amplitude settings and the frequency is automatically adjusted to the optimum performance setting. Eccentric rotation automatically matches the direction of travel, improving smoothness.

**Drum vibration** initiates with the lead drum, then follows with the rear drum to avoid damaging cold material.

**Water system** offers two independent water systems with additional nozzles ensure the drum surface is protected at all times. Waterflow is optimized based on compactor speed to maximize water usage and reduce fill-ups.



## 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.

