DD-70 & DD-70HF
Vibratory Asphalt Compactors

Ingersoll-Rand

High Performance, High Visibility

It's easy to see why the DD-70 and DD-70HF vibratory asphalt compactors work so well on roadways and other medium-sized paving jobs. Both the standard model and the DD-70HF feature unobstructed visibility of the drum edges and work surface, along with the highest rolling productivity in their weight class. These models are easy to operate, offer adjustable vibration on/off speed settings, an ergonomic console, and the most reliable water spray system in the industry. The operating weight of the DD-70 compactors also meets most DOT static rolling requirements so you get the most out of your machines.

Key Features

- Eight amplitude settings achieve required compaction throughout deep lifts and/or stiffer mix designs
- Eccentric rotation automatically matches direction of travel, improving smoothness
- Five-position rotating operator's station with an adjustable seat provides a smooth ride and comfortable operating environment
- Patented Impact Spacing Meter provides a visual reference for speed control to maintain proper impact spacing, resulting in consistent smoothness
- Two complete, independent water systems include triple water filtration, four water pumps, four spray bars, and variable waterflow
- Exclusive machined drums with chamfered, radiused drum edges minimize drum edge marking and facilitate finish rolling
- High frequency vibration system offers faster rolling speeds for increased production while maintaining proper drum impact spacing

DD-70 & DD-70HF Vibratory Asphalt Compactors

Specifications

STANDARD FEATURES

- 5-position rotating operator's module with adjustable console for improved visibility and comfort
- Adjustable vibration on/off speed settings at 0.5, 1, 1.5, and 2 mph for improved vibration control
- Eccentric rotation automatically adjusts to coincide with direction of travel, improving smoothness
- Exclusive machined drums with chamfered, radiused drum edges to maintain uniform smoothness while turning
- High curb clearance and narrow wall clearance
- High frequency vibration system offers faster rolling speeds for increased production
- Industry-leading eight amplitude selections optimizing performance and versatility
- Patented Impact Meter for consistent drum impact spacing and smoothness
- ROPS / FOPS with integral work lights and operator seat belt
- Superior drum spray system for maximum productivity
  - Infinitely variable waterflow control to conserve water
  - Independent primary and secondary spray systems on each drum
- Unobstructed visibility of drum ends and work surface

OPTIONAL EQUIPMENT

- Back-up alarm
- Cocoa mats
- Edge compactor, cutter
- Gauge package
- High intensity discharge lighting
- Inside drum wiper bars
- Noise suppression kit
- Offset drum
- ROPS cab with optional heat and A/C
- Strobe light

MODEL	DD-70	DD-70HF
MACHINE WEIGHTS (W/ ROPS / FOPS)		
Operating Weight – lb (kg)	15,000 (6803)	14,895 (6755)
Static Weight @ Front Drum – lb (kg)	7,300 (3311)	7,410 (3360)
Static Weight @ Rear Drum – lb (kg)	7,700 (3492)	7,485 (3395)
Shipping Weight – lb (kg)	13,920 (6314)	14,640 (6639)
MACHINE DIMENSIONS		
Overall Length – in (mm)	176 (4470)	176 (4470)
Overall Width – in (mm)	64 (1626)	64 (1626)
Overall Height (top of steering wheel) – in (mm)	86.6 (2200)	86.6 (2200)
Overall Height (top of ROPS / FOPS) – in (mm)	111.5 (2832)	111.5 (2832)
Drum Base – in (mm)	117 (2972)	117 (2972)
Curb Clearance – in (mm)	22 (559)	22 (559)
Inside Turning Radius (to drum edge) – in (mm)	141 (3582)	141 (3582)
DRUM		
Width – in (mm)	57 (1448)	57 (1448)
Diameter – in (mm)	41.2 (1046)	41.2 (1046)
Shell Thickness (nominal) – in (mm)	0.8 (20)	0.8 (20)
Finish	Machined surface; chamfered & radiused edges	
VIBRATION		
Frequency – vpm (Hz)	3,300 (55)	4,000 (66.7)
Amplitude – in (mm)	0.011 – 0.021 (0.27 – 0.54)	0.006 – 0.017 (0.16 – 0.43)
Centrifugal Force Range – lb (kN)	8,940 – 17,970 (40 – 80)	7,820 – 21,080 (35 – 94)
Amplitude Settings	8	8
PROPULSION		
Type	Closed-loop hydrostatic, parallel circuit to both drums	
Drum Drive	Heavy-duty radial piston LSHT motors	
Travel Speed – mph (km/h)	0 – 6.6 (0 – 10.7)	0 – 6.6 (0 – 10.7)
ENGINE		
Make & Model	Cummins 4B 3.9	
Engine Type	Naturally aspirated 4-cylinder	
Rated Power @ 2,500 rpm – hp (kW)	80 (60)	80 (60)
Electrical	12 V DC, negative ground; 95 A alternator	
Battery	1 absorbed electrolytic, 800 CCA	
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; 5 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 – gal (L)	205 (776)	205 (776)
MISCELLANEOUS		
Articulation Angle (center pivot steering)	+ / - 40°	+ / - 40°
Oscillation Angle	+ / - 10°	+ / - 10°
Fuel Capacity – gal (L)	37 (140)	37 (140)
Hydraulic Oil Capacity – gal (L)	17 (64)	17 (64)
Gradeability (theoretical)	40%	40%

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Form 15-0006A
Printed in USA 11-05