

INGERSOLL-RAND®

DD-70 Vibratory Asphalt Compactor



The Ingersoll-Rand DD-70 features dual 1450 mm wide drums and provides high performance for roadways and other medium-sized paving jobs. The DD-70 nominal capacity is up to 180 metric tonnes of Hot Mix Asphalt per hour.

The DD-70 has been designed for highest rolling productivity in its weight class. The 55Hz vibration frequency permits faster rolling speed, up to 6 kilometers per hour, maintaining proper drum impact spacing. The 1450 mm rolling width gives three pass coverage for panels up to 4 meters wide.

Visibility from the DD-70 operator's seat is unmatched. Uniquely-designed drum support legs, mounted diagonally to front and rear frames, permit unobstructed view of the drum edge and work surface.

The DD-70's water spray system is the most reliable in the industry. Polyethylene water

tanks, with three stages of water filtration, supply two complete and rust-proof water distribution systems. Four diaphragm water pumps, four spray bars and hand-serviceable nozzles provide uninterrupted water flow to the drums to prevent pick-up. A flow control to minimize tank refill intervals is standard. Unique to the industry, the Ingersoll-Rand DD-70 provides complete back-up spray systems for each drum.

Each DD-70 drum houses a unique variable amplitude eccentric which provides greatest versatility. Eight selections of amplitude, coupled with high vibration frequency of 55 Hz, give the DD-70 unequalled versatility for compaction of granular bases as well as Hot Mix Asphalt pavements.

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DD-70 Specifications

Machine Weights (w/ROPS/FOPS)

Operating Weight CECE	6735 kg
Static Weight	
at Front Drum CECE	3275 kg
at Rear Drum CECE	3460 kg
Shipping Weight CECE	6265 kg

Machine Dimensions

Overall Length	4470 mm
Overall Width	1625 mm
Overall Height	
top of steering wheel	2155 mm
top of ROPS/FOPS	2790 mm
Drum Base	2970 mm
Curb Clearance	560 mm
Outside Turning Radius	4800 mm

Drums

Rolling Width	1450 mm
Overall Diameter	1050 mm
Shell Thickness (nominal)	20 mm
Finish	Machined, chamfered with radiused edges

Vibration

Frequency	55 Hz
Centrifugal Force	
maximum per drum	80 kN
minimum per drum	40 kN
Amplitude Settings	Eight
Nominal Amplitude	
maximum	0.54 mm
minimum	0.27 mm

Propulsion

Type System	Closed-loop hydrostatic
Drum Drive	Low speed, high torque motors, both drums
Speed	0-10 km/hr
Gradeability (theoretical)	40%

Engine

Make & Model	Cummins 4B 3.9
Rated Power B DIN 6270 @ 2500 rpm	60 kW
Electrical System	12 volt

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	Five main, five auxiliary per drum
Filters	Three
Tank Capacity	738 liters

Miscellaneous Specifications

Fuel Capacity	136 liters
Hydraulic Oil Capacity	57 liters

Standard Features

- Adjustable vibration on/off speed settings at 1.2, 2.0, 2.8 or 3.2 km/hr
- Automatic reversing eccentric rotation
- Eight-position variable amplitude settings for each drum
- Five-position rotating operator's module with adjustable console
- Machined drums with chamfered, radiused drum edges
- Non-corrosive polyethylene water tanks, 740 liters capacity
- Patented impact meter to provide consistent drum impact spacing
- ROPS/FOPS with integral work lights
- Two complete and independent water systems: triple filtration, two water pumps, two spray bars and variable water flow rate for each drum

- Unobstructed visibility of drum ends and work surface provided by unique design of drum supports
- Vibration isolated operator's platform

Options

- Back-up alarm
- Biodegradable hydraulic oil
- Cocoa mats
- Edge compactor, cutter
- EROPS cabin w/wo heat and air conditioner
- Gauge package
- High Intensity Discharge (HID) night operating lights
- Infrared mat temperature sensor
- Offset drum
- Contact factory for additional options

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