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SD-70 PRO-PAC™ Vibratory Soil Compactor

The Ingersoll-Rand SD-70 PRO-PAC Series features a Cummins turbocharged 4 cylinder diesel engine. The 95 hp (71 kW) liquid-cooled engine provides greater power and torque to handle the increased demands of projects at higher elevations, improved gradeability and propulsion through highly cohesive soils. The lightweight, single-piece engine enclosure is hinged at the rear to allow unobstructed access to the engine, radiator, battery, filters and daily maintenance checkpoints.



Versatility value and optimum performance result when the smooth drum SD-70D is equipped with Ingersoll-Rand's unique, patented, optional bolt-on padfoot drumshell kit.

The SD-70 PRO-PAC operators station is designed for comfort and safety. A fully adjustable, suspension-mounted seat is standard. Four independent vibration dampeners isolate the operators platform from machine vibration. Controls and gauges are ergonomically positioned.

A variable frequency control is provided to adjust vibration to the natural resonant frequency of the material being compacted within a range of 1100 to 1900 VPM (18 to 32 Hz). Centrifugal force up to 30,450 lb. (135 kN) quickly compacts even the most difficult-to-compact materials.

Standard Features

- Adjustable scraper
- Dual beam halogen front light
- Gauges and instrumentation
- Heavy duty drum drive
- No-Spin®: differential axle
- Oil-bath eccentric lubrication
- Powerful 4 cylinder turbocharged diesel engine
- ROPS/FOPS with seat belt
- Shock-mounted operator platform
- Variable vibration frequency

Options

- ✓ Air precleaner
- ✓ EROPS cab with A/C and heat
- ✓ Heavy duty drum drive for SD-70D
- ✓ Pad foot drum shell kit for SD-70D
- ✓ Rearwork lights
- ✓ Strike-off blade
- ✓ Traction valve

SD-70 PRO-PAC SPECIFICATIONS	
Machine Weight (w/ROPS/FOPS)	
Operating Weight (CECE)	14,035 lb. (6365 kg)
Static weight at drum	7,440 lb. (3375 kg)
Static weight at tires	6,595 lb. (2990 kg)
Machine Dimensions	

Overall Length	196 in. (4975 mm)
Overall Width	75 in. (1900 mm)
Overall Height (top of steering whl.)	83 in. (2110 mm)
Overall Height (top of ROPS/FOPS)	112 in. (2855 mm)
Wheelbase	115 in. (2910 mm)
Curb Clearance	15.5 in. (390 mm)
Outside Turning Radius (drum edge)	194 in. (4925 mm)
Drum	
Drum Width	66 in. (1675 mm)
Drum Diameter	48 in. (1220 mm)
Drum Diameter Over Pads	--
Shell Thickness	.75 in. (19 mm)
Number of Padfeet	--
Padfoot Height	--
Padfoot Tip Area	--
Vibration	
Frequency	1,100 - 1,900 VPM (18 - 32 Hz)
Centrifugal Force	30,450 lb. (135 kN)
Nominal Amplitude	0.071 in. (1.80 mm)
Propulsion	
Type System	Hydrostatic, two-speed motor on planetary axle / No-Spin ® differential
Tire Size	14.9 x 24 - 6 PR R-3
Travel Speed - high	0 - 9.3 mph (0 - 14.9 km/hr)
Travel Speed - low	0 - 5.1 mph (0 - 8.3 km/hr)
Engine	

Make & Model	Cummins B 3.9 -C
Rated Power @ 2200 rpm	95 hp (70.8 kW)
Electrical System	12-volt DC, negative ground 65A Alt., 800CCA Battery
Brakes	
Service	dynamic hydrostatic through propulsion
Parking/Secondary	Spring-Applied, Hydraulically-Released on rear axle
Miscellaneous Specifications	
Articulation angle	±40°
Oscillation angle	±17°
Fuel capacity	45 gal. (170 liters)
Hydraulic oil capacity	32 gal. (121 liters)
Gradeability (theoretical)	58%

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