

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 check points.

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

The SD-70 PRO-PAC™ operator's station is designed for comfort and safety. A fully adjustable, suspension-mounted seat is standard. Four independent vibration dampeners isolate the operator's 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
- Back-up alarm
- 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

SD-70 PRO-PAC™ Specifications

	SD-70D PRO-PAC		SD-70F PRO-PAC	
Machine Weights (w/ROPS/FOPS)				
Operating Weight (CECE)	14,035 lb.	(6365 kg)	15,475 lb.	(7020 kg)
Static Weight at Drum	7,440 lb.	(3375 kg)	8,875 lb.	(4025 kg)
Static Weight at Tires	6,595 lb.	(2990 kg)	6,600 lb.	(2995 kg)
Shipping Weight	13,790 lb.	(6255 kg)	15,230 lb.	(6905 kg)
Machine Dimensions				
Overall Length	196 in.	(4975 mm)	196 in.	(4975 mm)
Overall Width	75 in.	(1900 mm)	75 in.	(1900 mm)
Overall Height - top of steering wheel	83 in.	(2110 mm)	85 in.	(2155 mm)
Overall Height - top of ROPS/FOPS	112 in.	(2855 mm)	113 in.	(2870 mm)
Wheelbase	115 in.	(2910 mm)	115 in.	(2910 mm)
Curb Clearance	15.5 in.	(390 mm)	17.5 in.	(440 mm)
Outside Turning Radius (drum edge)	194 in.	(4925 mm)	194 in.	(4925 mm)
Drum Diameter	48 in.	(1220 mm)	48 in.	(1220 mm)
Drum Diameter Over Pad Feet	-	-	54 in.	(1370 mm)
Drum Width	66 in.	(1675 mm)	66 in.	(1675 mm)
Drum Shell Thickness	0.75 in.	(19 mm)	0.75 in.	(19 mm)
Pad Tip Area	-	-	21 sq. in.	(135 sq cm)
Pad Height	-	-	3 in.	(76 mm)
Number of Pad Feet	-	-	84	
Vibration				
Frequency	1100-1900 VPM	(18-32 Hz)	1100-1900 VPM	(18-32 Hz)
Centrifugal Force	30,450 lb.	(135 kN)	30,450 lb.	(135 kN)
Nominal Amplitude	0.071 in.	(1.80 mm)	0.060 in.	(1.53 mm)
Engine				
Make & model	Cummins B3.9-C		Cummins B3.9-C	
Rated power @ 2200 rpm	95 hp	(70.8 kW)	95 hp	(70.8 kW)
Electrical system	12-volt DC, negative ground; 65A alternator, 800 CCA battery			
Propulsion				
Type system	Hydrostatic, two-speed motor on planetary axle/ No-Spin® differential			
Tire size	14.9x24-6 PR R-3		14.9x24-6 PR, R-1	
Travel Speed - high	0-9.3 mph	(0-14.9 km/hr)	0-9.8 mph	(0-15.8 km/hr)
Travel Speed - low	0-5.1 mph	(0-8.3 km/hr)	0-5.4 mph	(0-8.7 km/hr)
Brakes				
Service	Dynamic hydrostatic through propulsion system			
Parking/Secondary	Spring-Applied, Hydraulically-Released on rear axle			
Miscellaneous Specifications				
Articulation Angle	±40°		±40°	
Oscillation Angle	±17°		±17°	
Fuel Capacity	47 gal.	(178 liters)	47 gal.	(178 liters)
Hydraulic oil capacity	30 gal.	(114 liters)	30 gal.	(114 liters)
Gradeability (theoretical)	67%		52%	

Selected Options

- Air precleaner
- Dual amplitude eccentric mechanism
- EROPS cab with A/C and heat
- Inside scraper
- Pad foot drum shell kit for SD-70D
- Rear work lights
- Strike-off blade
- Traction valve

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