

# INGERSOLL-RAND®

## SD-150 Vibratory Soil Compactor PRO-PAC™



Unit shown is with optional equipment

The Ingersoll-Rand SD-150 PRO-PAC Series features a powerful Cummins turbocharged and aftercooled B5.9 diesel engine. The 185 hp (138 kW) liquid-cooled engine provides greater power and torque to handle the increased demands of projects at higher elevations, operation on steeper slopes and propulsion through highly cohesive soils. The lightweight, single-piece engine enclosure is top hinged to allow unobstructed access to the engine, radiator, battery, filters and daily maintenance checkpoints.

The SD-150 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 1300 to 1800 VPM (21.7 to 30 Hz). Centrifugal force up to 70,600 lb. (314 kN) quickly densifies even the most difficult-to-compact materials.

The SD-150 PRO-PAC is produced with two different drum configurations. The smooth drum model, SD-150D, works best for compaction of coarse-grained materials like granular soils or aggregates. The pad foot drum unit, designated SD-150F, is the correct unit for compaction of fine-grained materials like silt, clay or mixed soils. Dual drum amplitude permits the SD-150 Series to be used on both thicker and thinner lifts for enhanced operating versatility, often eliminating the need for a secondary compactor.

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SD-150 PRO-PAC Specifications	SD-150D PRO-PAC		SD-150F PRO-PAC		
<b>Machine Weights (w/ ROPS/FOPS)</b>					
Operating Weight (CECE)	32,850 lb.	(14895 kg)	32,850 lb.	(14895 kg)	
Static Weight at Drum	21,030 lb.	(9535 kg)	20,950 lb.	(9500 kg)	
Static Weight at Tires	11,820 lb.	(5360 kg)	11,900 lb.	(5395 kg)	
Shipping Weight	32,545 lb.	(14760 kg)	32,560 lb.	(14765 kg)	
<b>Machine Dimensions</b>					
Overall Length	237 in.	(6010 mm)	237 in.	(6010 mm)	
Overall Width	97 in.	(2455 mm)	97 in.	(2455 mm)	
Overall Height (top of ROPS/FOPS)	123 in.	(3115 mm)	124 in.	(3150 mm)	
Wheelbase	130 in.	(3310 mm)	130 in.	(3310 mm)	
Curb Clearance	17 in.	(440 mm)	20 in.	(515 mm)	
Outside Turning Radius <sup>1</sup>	225 in.	(5720 mm)	225 in.	(5720 mm)	
<b>Drum</b>					
Drum Width	84 in.	(2135 mm)	84 in.	(2135 mm)	
Drum Diameter	63 in.	(1600 mm)	59 in.	(1500 mm)	
Drum Diameter Over Pad Feet	-	-	69 in.	(1750 mm)	
Drum Shell Thickness	1.5 in.	(38 mm)	1 in.	(25 mm)	
Number of Pad Feet	-	-	-	120	
Pad Height	-	-	5 in.	(125 mm)	
Pad Tip Area	-	-	21 in. <sup>2</sup>	(135 cm <sup>2</sup> )	
<b>Vibration</b>					
Frequency	1300-1800 VPM	(21.7-30 Hz)	1300-1800 VPM	(21.7-30 Hz)	
Centrifugal Force	- high	70,600 lb.	(314 kN)	70,600 lb.	(314 kN)
	- low	35,300 lb.	(157 kN)	35,300 lb.	(157 kN)
Nominal Amplitude	- high	0.070 in.	(1.77 mm)	0.074 in.	(1.87 mm)
	- low	0.035 in.	(0.89 mm)	0.037 in.	(0.94 mm)
<b>Propulsion</b>					
Type System	Hydrostatic, two-speed motor on planetary axle / No Spin® differential				
Tire Size	23.1 x 26 - 8PR R3		23.1 x 26 - 8PR R1		
Drum Drive	Low speed, high torque motor				
Travel Speed	- high	0-6.9 mph	(0-11.2 km/hr)	0-7.1 mph	(0-11.4 km/hr)
	- low	0-4.3 mph	(0-6.9 km/hr)	0-4.4 mph	(0-7.0 km/hr)
<b>Engine</b>					
Make & Model	Cummins B5.9				
Engine Type	Turbocharged and aftercooled six cylinder				
Rated Power @ 2200 rpm	185 hp (138 kW)				
Electrical System	12-volt DC, negative ground; 100A alternator; 2 ea 800 CCA batteries				
<b>Brakes</b>					
Service	Dynamic hydrostatic through propulsion system				
Parking/Secondary	Spring-Applied, Hydraulically-Released on axle				
<b>Miscellaneous</b>					
Articulation Angle	±40°		±40°		
Oscillation Angle	±17°		±17°		
Fuel Capacity	71 gal.	(268 liters)	71 gal.	(268 liters)	
Hydraulic Oil Capacity	65 gal.	(246 liters)	65 gal.	(246 liters)	
Gradeability (theoretical)	48%		42%		

<sup>1</sup>Turning radius measured to drum edge

## Standard Features

- Adjustable scraper
- Back-up alarm
- Dual-beam, halogen front light
- Ground level access for maintenance/service
- No-Spin® differential planetary axle
- Oil bath eccentric lubrication
- Patented, dual amplitude eccentric mechanism
- ROPS/FOPS with seat belt
- Variable vibration frequency
- Vibration isolated operator platform

## Options

- Air precleaner
- Compactometer
- Conversion drums (D to F or F to D)
- EROPS with heat or A/C and heat
- Rear work lights
- Strike-off blade
- Contact factory for additional options

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