

INGERSOLL-RAND®

SD-115 Vibratory Soil Compactor PRO-PAC™



The Ingersoll-Rand SD-115 PRO-PAC Series features a powerful Cummins turbocharged and aftercooled diesel engine. The 174 hp (130 kW) liquid-cooled engine and special hydraulics provide greater power and torque to handle the increased demands of projects at highest elevations, operation on steepest 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-115 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 1890 VPM (18.3 to 31.5 Hz). Centrifugal force up to 55,000 lb. (244.6 kN) quickly densifies even the most difficult-to-compact materials.

Dual drum amplitude makes the SD-115 PRO-PAC Series versatile enough to compact lifts from 6 in. (150 mm) to more than 18 in. (450 mm) thick. Additional versatility is provided to the SD-115F by an optional strike-off blade. The SD-115D can be equipped with a clamp-on, padfoot drum shell kit and strike-off blade.

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SD-115 PRO-PAC Specifications	SD-115D PRO-PAC		SD-115F PRO-PAC		
Machine Weights (w/ ROPS/FOPS)					
Operating Weight (CECE)	23,855 lb.	(10825 kg)	26,420 lb.	(11980 kg)	
Static Weight at Drum	13,945 lb.	(6325 kg)	16,215 lb.	(7355 kg)	
Static Weight at Tires	9,910 lb.	(4495 kg)	10,205 lb.	(4625 kg)	
Shipping Weight	23,550 lb.	(10680 kg)	26,115 lb.	(11845 kg)	
Machine Dimensions					
Overall Length	234 in.	(5940 mm)	234 in.	(5940 mm)	
Overall Width	93 in.	(2355 mm)	93 in.	(2355 mm)	
Overall Height (top of ROPS/FOPS)	122 in.	(3105 mm)	124 in.	(3150 mm)	
Wheelbase	130 in.	(3305 mm)	130 in.	(3305 mm)	
Curb Clearance	19 in.	(475 mm)	21 in.	(540 mm)	
Outside Turning Radius ¹	226 in.	(5730 mm)	226 in.	(5730 mm)	
Drum					
Drum Width	84 in.	(2135 mm)	84 in.	(2135 mm)	
Drum Diameter	59 in.	(1500 mm)	59 in.	(1500 mm)	
Drum Diameter Over Pad Feet	-	-	69 in.	(1750 mm)	
Drum Shell Thickness	1 in.	(25 mm)	1 in.	(25 mm)	
Number of Pad Feet	-	-	-	120	
Pad Height	-	-	5 in.	(125 mm)	
Pad Tip Area	-	-	21 in. ²	(135 cm ²)	
Vibration					
Frequency	1100-1890 VPM	(18.3-31.5 Hz)	1100-1890 VPM	(18.3-31.5 Hz)	
Centrifugal Force	- high	55,000 lb.	(244.6 kN)	55,000 lb.	(244.6 kN)
	- low	27,400 lb.	(121.9 kN)	27,400 lb.	(121.9 kN)
Nominal Amplitude	- high	0.067 in.	(1.70 mm)	0.054 in.	(1.36 mm)
	- low	0.033 in.	(0.85 mm)	0.027 in.	(0.68 mm)
Propulsion					
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	0-6.6 mph	(0-10.7 km/hr)	0-7.1 mph	(0-11.4 km/hr)
	- low	0-4.2 mph	(0-6.7 km/hr)	0-4.4 mph	(0-7.0 km/hr)
Engine					
Make & Model	Cummins B5.9				
Engine Type	Turbocharged and aftercooled six cylinder				
Rated Power @ 2200 rpm	174 hp (130 kW)				
Electrical System	12-volt DC, negative ground; 100A alternator; 2 ea 800 CCA batteries				
Brakes					
Service	Dynamic hydrostatic through propulsion system				
Parking/Secondary	Spring-Applied, Hydraulically-Released on axle				
Miscellaneous					
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)	72%		45%		

¹Turning 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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