SD-100 PRO-PAC™ Vibratory Soil Compactor

The Ingersoll-Rand SD-100 PRO-PAC™ Series features an economical four cylinder Cummins turbocharged and aftercooled diesel engine. This 125 hp (93kW) liquid-cooled engine is fuel conservative, easy to service and provides long life. To satisfy demanding applications where superior gradeability is required, the SD-100D and SD-100F are standard with axle drive plus drum drive. The lightweight, single-piece engine enclosure is hinged to allow unobstructed access to the engine, radiator, battery, filters, and daily maintenance checkpoints.

The SD-100 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 1850 VPM (18.3 to 30.8 Hz). Centrifugal force up to 52,500 lb. (233.5 kN) quickly densifies even the most difficult-to-compact materials. Dual amplitude is a standard feature for application versatility.

The SD-100 PRO-PAC is produced with two different drum configurations. The smooth drum model, SD-100D, works best for compaction of coarse-grained materials like granular soils or aggregates. The pad foot model, SD-100F, is the correct unit for compaction of fine-grained materials like silt, clay or mixed soils. Increased machine utilization and versatility for the SD-100D is available by installing the optional two-piece clamp-on pad foot drum shell kit.

SD-100 PRO-PAC Specifications		SD-100D PRO-PAC		SD-100F PRO-PAC	
Machine Weights (w/ ROPS/FOPS)					
Operating Weight (CECE)		23,520 lb.	(10665 kg)	25,545 lb.	(11585 kg)
Static Weight at Drum		14,135 lb.	(6410 kg)	15,830 lb.	(7180 kg)
Static Weight at Tires		9,385 lb.	(4255 kg)	9,715 lb.	(4405 kg)
Shipping Weight		23,230 lb.	(10535 kg)	25,255 lb.	(11455 kg)
Machine Dimensions					
Overall Length		225 in.	(5725 mm)	225 in.	(5725 mm)
Overall Width		93 in.	(2355 mm)	93 in.	(2355 mm)
Overall Height (top of ROPS/FOPS)		122 in.	(3105 mm)	124 in.	(3145 mm)
Wheelbase		130 in.	(3305 mm)	130 in.	(3305 mm)
Curb Clearance		18 in.	(455 mm)	20 in.	(505 mm)
Outside Turning Radius (measured to drum edge)		225 in.	(5720 mm)	225 in.	(5720 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		—	—	67 in.	(1700 mm)
Drum Shell Thickness		1 in.	(25 mm)	1 in.	(25 mm)
Number of Pad Feet		—	—	120	
Pad Height		—	—	4 in.	(100 mm)
Pad Tip Area		—	—	21 in^2	(125 cm^2)
Vibration					
Frequency		1100-1850 VPM	(18.3-30.8 Hz)	1100-1850 VPM	(18.3-30.8 Hz)
Centrifugal Force	high	52,500 lb.	(233.5 kN)	52,500 lb.	(233.5 kN)
	low	26,200 lb.	(116.5 kN)	26,200 lb.	(116.5 kN)
Nominal Amplitude	high	0.067 in.	(1.70 mm)	0.055 in.	(1.41 mm)
	low	0.033 in.	(0.85 mm)	0.028 in.	(0.70 mm)
Propulsion					
Type System		Hydrostatic, two speed motor on planetary axle / No Spin® differential			
Tire Size		23.1 x 26 - 8PR R-3 diamond tread		23.1 x 26 - 8PR TL lug tread	
Drum Drive		Planetary Gear Reduction		Low speed, high torque motor	
Travel Speed	high	0-7.8 mph	(0-12.5 km/hr)	0-7.0 mph	(0-11.2 km/hr)
	low	0-4.6 mph	(0-7.3 km/hr)	0-4.3 mph	(0-6.9 km/hr)
Engine					
Make & Model		Cummins B3.9-C			
Engine Type		Turbocharged and aftercooled four cylinder			
Rated Power @ 2200 rpm		125 hp (93 kW)			
Electrical System		12-volt DC, negative ground; 65 Amp 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		72 gal.	(272 liters)	72 gal.	(272 liters)
Hydraulic Oil Capacity		54 gal.	(204 liters)	54 gal.	(204 liters)
Gradeability (theoretical)		52%		58%	

Standard Features

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

Selected Options

- Air precleaner
- Compactometer
- Conversion drums (D to F or F to D)
- EROPS cab with heat or A/C and heat
- Patented clamp-on padfoot drum shell kit
- Rear work lights
- Strike-off blade
- Traction valve for SD-100D
- Contact factory for additional options

Nothing contained in this brochure is intended to extend any warranty or representation, expressed or implied, regarding the products described herein. Any such warranties or other terms and conditions of sale products shall be in accordance with Ingersoll-Rand's standard terms and conditions of sale for such products, which are available upon request.

Ingersoll-Rand®

Ingersoll-Rand Company
Road Machinery
312 Ingersoll Drive
Shippensburg, PA 17257
www.road-development.irco.com
www.lightcompaction.com

© 2001 Ingersoll-Rand Company Form: 15352 Printed in USA.