

SD-40 Vibratory Soil Compactor



The SD-40 Series single-drum, vibratory soil compactors are highly maneuverable, compact units that offer the highest performance in their class. The SD-40D smooth drum model is designed for compaction of granular, non-cohesive soils while the SD-40F padfoot model provides efficient compaction of cohesive soils. Each model offers many benefits including a powerful, fuel efficient diesel engine, a high torque propulsion system, high grade capability, excellent visibility to the work area, ease of serviceability and safe, comfortable operation.

Productivity

The SD-40D and SD-40F generate 16,000 lbs. (71.2 kN) of centrifugal force. Combined with maximum amplitude and heavy drum weight, this force enables the operator to reach the required density in fewer passes. Productivity is increased and overall costs are reduced.

Gradeability

Superior gradeability is achieved through high-torque propulsion components, proper balance of drum-to-tractor weight and high engine horsepower. The SD-40 Series utilizes direct hydrostatic wheel drive and drum drive with a full-time traction valve.

Versatility

The SD-40D, with its standard smooth drum, is suited for compaction of granular soils. By installing an optional, bolt-on padfoot shell conversion kit, this unit can also be used to compact cohesive soils. An optional fill-leveling blade is also available for the SD-40F or bolt-on shell equipped unit.

SD-40 Specifications

	SD-40D		SD-40F	
Machine Weights				
Operating Weight	9,885 lb.	(4485 kg)	10,785 lb.	(4890 kg)
Static Weight at Drum	4,805 lb.	(2180 kg)	5,460 lb.	(2475 kg)
Static Weight at Tires	5,080 lb.	(2305 kg)	5,325 lb.	(2415 kg)
Shipping Weight	9,535 lb.	(4325 kg)	10,435 lb.	(4735 kg)
Machine Dimensions				
Overall Length	157 in.	(3995 mm)	157 in.	(3995 mm)
Overall Width	61 in.	(1535 mm)	61 in.	(1535 mm)
Overall Height (top of steering wheel)	78 in.	(1980 mm)	78 in.	(1980 mm)
Overall Height (top of ROPS)	115 in.	(2915 mm)	115 in.	(2915 mm)
Wheelbase	95 in.	(2415 mm)	95 in.	(2415 mm)
Curb Clearance	13.4 in.	(340 mm)	13.4 in.	(340 mm)
Outside Turning Radius ¹	158 in.	(4015 mm)	158 in.	(4015 mm)
Drum				
Drum Width	54 in.	(1370 mm)	54 in.	(1370 mm)
Drum Diameter	38 in.	(965 mm)	38 in.	(965 mm)
Drum Diameter Over Pads	-	-	44 in.	(1120 mm)
Shell Thickness (nominal)	0.75 in.	(19 mm)	0.75 in.	(19 mm)
Number of Padfeet	--	--	63	
Pad Height	--	--	3 in.	(75 mm)
Padfoot Tip Area	--	--	21 in. ²	(135 cm ²)
Vibration				
Frequency - standard	1,800 VPM	(30 Hz)	1,800 VPM	(30 Hz)
Centrifugal Force	16,000 lb.	(71.2 kN)	16,000 lb.	(71.2 kN)
Nominal Amplitude	0.068 in.	(1.72 mm)	0.057 in.	(1.45 mm)
Engine				
Make & Model	John Deere 4045DF150		John Deere 4045DF150	
Rated Power @ 2500 rpm	80 hp (60 kW)		80 hp (60 kW)	
Electrical System	12-volt DC, negative ground; 95A alternator; 900CCA battery			
Propulsion				
Type System	Hydrostatic		Hydrostatic	
Tire Size	12.4 x 24 - 4PR R1		12.4 x 24 - 4PR R1	
Speed - forward / reverse	0-4.9 mph	(0-7.9 km/hr)	0-5.1 mph	(0-8.2 km/hr)
Brakes				
Service	Dynamic hydrostatic through propulsion system			
Parking/Secondary	Spring-Applied, Hydraulically Released			
Miscellaneous				
Articulation Angle	±40°		±40°	
Oscillation Angle	±10°		±10°	
Fuel Capacity	28 gal.	(106 liters)	28 gal.	(106 liters)
Hydraulic Oil Capacity	26 gal.	(98 liters)	26 gal.	(98 liters)
Gradeability (theoretical)	56%		48%	

¹Turning radius measured to drum edge

Standard Features

- Adjustable scraper
- Back-Up alarm
- Fixed vibration frequency with foot activated control
- Heavy duty drum drive
- Oil bath eccentric lubrication
- Operator platform access from both sides of machine
- Powerful John Deere 80 hp (60 kW) diesel engine
- ROPS with seat belt
- Tires track within drum width
- Torque-balanced wheel drive with traction valve
- Traction valve between drum and wheels

Selected Options

- Air precleaner
- Diamond tread tires
- Front and rear work lights
- Fuel level gauge
- Padfoot drum shell kit (SD-40 only)
- Strike-off blade

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