

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 hightorque 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					
Machina Waighte	SD-40D		SD-4	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	457 :	(0005)	457 %	(0005)	
Overall Width	157 in. 61 in.	(3995 mm)	157 in. 61 in.	(3995 mm)	
Overall Width Overall Height (top of steering wheel)	78 in.	(1535 mm) (1980 mm)	78 in.	(1535 mm) (1980 mm)	
Overall Height (top of ROPS)	7 o III. 115 in.	(2915 mm)	76 III. 115 in.	(1960 IIIII) (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	100 111.	(1010 11111)	100 111.	(1010 11111)	
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			60		
Pad Height			3 in.	(75 mm)	
Padfoot Tip Area			21 in. ²	(135 cm²)	
Vibration	4 000 1/01/4	(00 11-)	4 000 VDM	(00 11-)	
Frequency - standard	1,800 VPM	(30 Hz)	1,800 VPM	(30 Hz)	
Centrifugal Force Nominal Amplitude	16,000 lb. 0.068 in.	(71.2 kN) (1.72 mm)	16,000 lb. 0.057 in.	(71.2 kN) (1.45 mm)	
Engine	0.000 111.	(1.72 111111)	0.037 III.	(1.45 11111)	
Make & Model	John Deere 4045DF150 John Deere 4045DF150				
Rated Power @ 2500 rpm		80 hp (60 kW) 80 hp (60 kW)			
Electrical System	00 Hp		und; 95A alternator; 900CC		
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-Applie	d, Hydraulically Released		
Miscellaneous		±40°	±41	٦٥	
Articulation Angle Oscillation Angle		±40° ±10°	±41		
Fuel Capacity	28 gal.	(106 liters)	28 gal.	(106 liters)	
Hydraulic Oil Capacity	26 gal.	(98 liters)	26 gal.	(98 liters)	
Gradeability (theoretical)	Lo gui.	56%	48'		
¹ Turning 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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