



DD-14S/DD-16 DURA-PAC™ Vibratory Asphalt Compactors



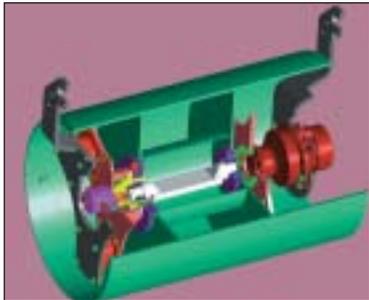
DD-14S and DD-16 Features

DURA-PAC™ Series

The new DD-14S and DD-16 double drum vibratory compactors offer high performance in ergonomically styled compact packages. These compactors provide unsurpassed overall value through industry leading drum performance, unmatched operating intervals, and more standard safety features than any machines in their class. No matter how complex the conditions or how demanding the schedule, the DD-14S and DD-16 provide a distinct competitive advantage.

Smooth Drum Performance

Our optimum drum performances result from the ideal combination of amplitude, centrifugal force, and frequency for the most effective and efficient compaction of the widest range of materials. The DURA-PAC's amplitude provides application versatility, the centrifugal force provides the energy necessary to achieve proper density, and the frequency provides closer impact spacing at a faster rolling speed. Every drum is manufactured with robotic precision and receives a chamfered edge to produce a smooth, professional quality finish on every job.



Feature: Amplitude

The DD-14S and DD-16 each have an amplitude that was designed primarily for Hot Mix Asphalt compaction. However, the entire DURA-PAC Series is equally effective for soil sub-base and aggregate base applications.

Feature: Frequency

Each DURA-PAC model has the highest frequency in its class—4000 vpm. This frequency allows for optimum impact spacing at higher rolling speeds providing a smooth, dense, quality pavement. The DURA-PAC Series' frequency makes it the most productive and efficient class of compactors available.

4,000 VPM

12 impacts per foot x 88 fpm
=3.8 mph (6.1 km/hr)

Feature: Centrifugal Force

With centrifugal forces of 3500 lbs. (15.6 kN) and 4000 lbs. (17.8 kN), the DD-14S and DD-16 provide the compaction necessary to achieve maximum density and smoothness in fewer passes. The forces are increased proportionally to match drum width with overall output to ensure maximum productivity. The operator can choose front drum vibration only on the DD-14S and front drum vibration only or both drums vibration on the DD-16.

Feature: Engine

The DD-14S and DD-16 feature an engine designed for the most demanding requirements. These compactors are equipped with a fuel-efficient, liquid-cooled Kubota 16.9hp (12.6kW) at 3000 rpm diesel engine. This reliable engine is equipped with standard glow plugs for excellent cold weather starting characteristics and has high horsepower to weight ratios for superior operation in all conditions.



Feature: Water System

The DD-14S and DD-16 both have a large capacity 52-gallon (197 liters), rotationally molded, polyethylene water tank which provides extended intervals between refills. The variable water flow control and spring-loaded, self-adjusting, neoprene wipers distribute water evenly across each drum. The optional pressurized water system is equipped with hand-serviceable water nozzles through which water is filtered two times. In the automatic mode, water flow is activated only when the compactor is in motion to further extend refilling intervals.

Feature: Clearance & Visibility

High curb and low side clearances allow for efficient maneuvering around curbing and other job site obstacles. The hose-tube-hose configuration in the drum area is utilized to provide superior wall and curb clearance. The DURA-PAC Series' small size, low sloping hood, and tight turning radius allows the compactors to function effectively in confined areas.



Feature: Comfort & Safety

The DURA-PAC Series has been designed to optimize operator comfort and safety. Isolation of the front vibratory drum, positioning of the operator platform on the rear frame, plus 4-point isolation of the operator platform from the frame eliminates nearly all vibration from reaching the operator. Convenient grab handles are integrated into the standard Roll Over Protective Structure (ROPS). The spring-applied hydraulically-released parking brake with test switch, emergency stop switch, seat safety switch, and propulsion control with neutral start are all designed to provide a safe work environment.

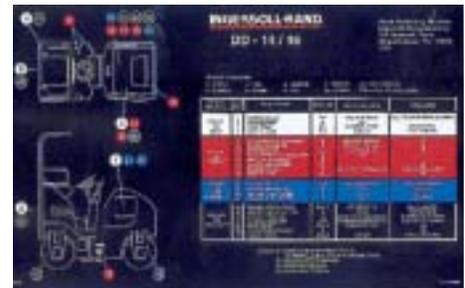
Feature: Controls

The DURA-PAC Series has been designed with an extra emphasis on comfort, simplicity and ease of use. Propulsion and vibration controls are conveniently located to the right of the operator's seat. Drum vibration is controlled manually by a button on the propulsion lever.



Feature: Serviceability

The four daily checkpoints are unobstructed and have been positioned to make preventative maintenance easy and effortless. The engine enclosure lifts easily, giving ground-level access to the engine, radiator, battery, and filters. Color-coded service charts show detailed checkpoint locations, service intervals and proper lubricants.



Rugged and Reliable

The DURA-PAC Series of compactors has been designed with extra emphasis on durability and reliability. The functional design and long-life components will keep these compactors operating for many years and are backed by a one-year/1000 hour parts and labor warranty.

DD-14S and DD-16 Specifications

Machine Weights (w/ ROPS)		DD-14S		DD-16	
	Operating Weight	3172 lbs.	(1439 kg)	3380 lbs.	(1533 kg)
	Static Weight at Front Drum	1488 lbs.	(675 kg)	1548 lbs.	(702 kg)
	Static Weight at Rear Drum	1684 lbs.	(764 kg)	1832 lbs.	(831 kg)
	Shipping Weight	2694 lbs.	(1222 kg)	2993 lbs.	(1357 kg)
Machine Dimensions					
	Overall Length w/ ROPS	80.1 in.	(2034 mm)	80.1 in.	(2034 mm)
	Overall Length w/o ROPS	80.1 in.	(2034 mm)	80.1 in.	(2034 mm)
	Overall Width	38.8 in.	(985 mm)	42.7 in.	(1085 mm)
	Overall Height-top of steering wheel	60.4 in.	(1535 mm)	60.4 in.	(1535 mm)
	Overall Height-top of ROPS	88.2 in.	(2241 mm)	88.2 in.	(2241 mm)
	Drum Base	55.1 in.	(1400 mm)	55.1 in.	(1400 mm)
Drum	Drum Width	35.4 in.	(900 mm)	39.4 in.	(1000 mm)
	Drum Diameter	22 in.	(560 mm)	22 in.	(560 mm)
	Drum Shell Thickness (nominal)	.47 in.	(12.0 mm)	.47 in.	(12.0 mm)
	Finish	Machined/chamfered edge			
Vibration	Frequency	4000 VPM (66.7 Hz)			
	Centrifugal Force	3500 lbs.*	(15.6 kN)*	4000 lbs.	(17.8 kN)
	Nominal Amplitude	.015 in.	(0.37mm)	.016 in.	(0.40 mm)
	Lubrication	Grease			
	Type System	open loop, parallel circuit			
	Vibrating Drums	Front drum only, both or front only			
	Vibration Isolation	6 shear block isolators per drum			
Propulsion	Type System	Closed loop, hydrostatic, series circuit			
	Drum Drive	Pump: axial-piston; Motor: radial-piston, low-speed, high-torque			
	Speed - forward & reverse	0-5 mph		(0-8 km/h)	
	Gradeability (theoretical)	48.4%		46.8%	
Engine	Make & Model	Kubota D722			
	Rated Power	16.9 hp (12.6 kW) @ 3000 rpm			
	Type	3-cylinder Diesel			
Brakes	Service	Dynamic hydrostatic through propulsion system			
	Parking/Secondary	Spring-Applied, hydraulically-released on each drum drive			
Steering	Design	Centerpoint articulation			
	Type System	Double-acting, hydraulic, single cylinder			
	Articulation Angle	+/- 34°			
	Outside Turning Radius (measured to drum edge)	108 in.	(2740 mm)	110 in.	(2790 mm)
Water System	Type	Gravity			
	Tank Capacity	52 gal.		(197 liters)	
	Filters	none			
	Drum Wipers	Spring-loaded, self-adjusting, neoprene wipers			
	Type				
Electrical	Battery	12-volt, negative ground, 450 CCA			
	Alternator	40 amp			
Miscellaneous Specifications					
	Fuel Capacity	7.8 gal		(29.5 liters)	
	Hydraulic Capacity	9 gal		(34.1 liters)	
	Oscillation	+/- 10 deg.			
	Curb Clearance	13.27 in.	(337 mm)	17.3 in.	(439 mm)
	Side Clearance	1.67 in.	(42.5 mm)	1.67 in.	(42.5 mm)

* DD-14S Front Drum Vibration Only

Options

- Audible Alarm
- Back-Up Alarm
- Beacon Lamp
- Biodegradable Oil
- Foldable ROPS
- Hazard & Turn Signals
- Hydraulic Test Ports
- Inside Wiper/Scraper Kit
- Low Fuel Alarm
- Pressurized Water System
- Special Paint
- Steering Knob
- Suspension Seat
- Urethane Wipers
- Water Strainer
- Work Lights

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