

Tandem Vibratory Rollers BW141AD-4, BW151AD-4



BW141AD-4 - ASPHALTIC CONCRETE (material weight 140 lb/cu ft)

# passes	rolling speed (mph)	area coverage sq yd/hr	"productivity in tons/hr by lift thickness, 100% efficiency"			
			1.5 inches	2 inches	2.5 inches	3 inches
2	4.1	5923	467	623	779	934
3	4.1	3949	311	415	519	623
4	4.1	2962	234	311	389	467
5	4.1	2369	187	249	311	374
6	4.1	1974	156	208	260	311

BW151AD-4 - ASPHALTIC CONCRETE (material weight 140 lb/cu ft)

# passes	rolling speed (mph)	area coverage sq yd/hr	"productivity in tons/hr by lift thickness, 100% efficiency"			
			1.5 inches	2 inches	2.5 inches	3 inches
2	4.1	6625	522	697	871	1045
3	4.1	4416	348	464	581	697
4	4.1	3312	261	348	435	522
5	4.1	2650	209	279	348	418
6	4.1	2208	174	232	290	348

Note: Repeat number of passes over the same area is required to achieve specified compaction efficiency/density. Successive passes over same area results in reduced area coverage and productivity. Rolling speed selected provides impact spacing of a minimum of 10 impacts per foot at high vibration frequency setting. Actual compaction efficiency is determined by job conditions.

BW141AD-4, BW151AD-4



■ *An Innovative Design, Capable of Handling a Wide Range of Compaction Applications ...*

The next generation BW141AD-4 and BW151AD-4 tandem vibratory rollers have been designed to meet and exceed the requirements of today's contractors. These new models come equipped with large diameter drums with thick shells to provide maximum strength and ensure a high quality finished asphalt surface. The lateral sliding and swiveling seat can be positioned at 90 degrees providing optimum visibility of the drum edges and work surface.

These features combined with dual amplitudes, high vibratory frequencies, and optimized centrifugal forces, deliver maximum productivity on applications ranging from granular stone bases to hot mix asphalt surfaces.

■ Applications:

- Highway construction and maintenance
- Asphalt repairs and resurfacing
- Airports
- Parking lots



BW 141AD-4 / BW 151AD-4 Operator's platform with sliding/swiveling seating position

Featuring...



Slanted leg design offers exceptional visibility to both drum work surface, water spray system and surrounding jobsite area.

Next generation design heavy tandem models provide maximum productivity

Achieve maximum Productivity:

- Up to 20% lower maintenance costs than conventional rollers.
- Vibration bearings with oil bath lubrication, for maximum cooling efficiency and long life.
- Non-corrosive water system with dual electric spray pumps, ensures minimal water system problems.
- Extended change intervals for hydraulic oil and filter, up to 2000 hours or once in two years, minimizes costs and service hours.
- Maintenance-free articulated steering design and spring-actuated brake system.
- Oil-cooled Deutz diesel engine provides fuel efficient operation and maximum reliability.
- Easy component access saves you time and money in reduced maintenance expense.
- Visual checks for hydraulic filters and engine air filter are in easy view
- Hydraulic system test ports are within easy reach when required
- Standard spring loaded scrapers and quick-disconnect nozzles provide easy servicing and maximized machine up-time
- Fuel, water and hydraulic oil check and fill points are in plain view and easily accessed

Handling is safer and easier:

- Simple drum offset of 6.7 inches to either side of center, improves productivity and reduces damage potential in tight, confined areas.
- Driver's seat can be moved to either side and swiveled 90 degrees for optimum driver comfort, visibility and jobsite safety.
- Excellent all around visibility, including drum surfaces and edges for easier maneuvering and early warning of material pick-up on drums.
- Twin travel levers mounted either side of the seat, ergonomic layout of controls and dual steering wheels mean no awkward stretching and ease of operation.
- Emergency stop activates the maintenance free multi-disk brakes of the travel motors and cuts travel drive for optimum safety should an emergency occur.



Bolt-in heavy duty oscillating / articulating centerjoint with 6.7 inches offset provision.

Achieve Maximum Productivity:

- Compact design with articulated frame and precision steering response provides maximum maneuverability and accurate drum tracking.
- High curb clearance, up to 28.1 inches, reduces costly damage and allows close working in tight, confined areas.
- Large diameter drums guarantee high surface quality and minimize pushing and cracking on sensitive material types.
- High travel speeds with vibration, coupled with superior drum performance, results in increased productivity.



Dual water spray pumps, providing back-up provision.



Large swing open doors for easy access to service and maintenance checkpoints.

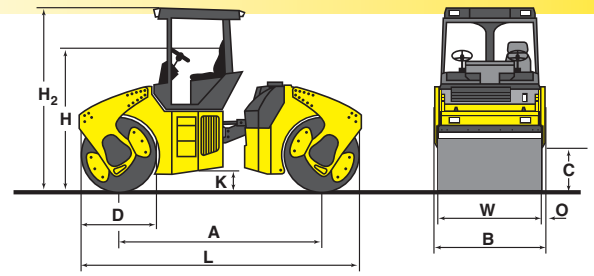


Powerful and fuel efficient Deutz oil-cooled diesel engine.

With these features and many more, it's easy to see why these models maintain a high residual value while delivering lower lifetime operating costs.

Technical Specifications

BW141AD-4, BW151AD-4



Shipping dimensions

in cubic feet (m ³)	without/with ROPS	
BW141AD-4	614.7 (17.41)	794.9 (22.51)
BW151AD-4	681.4 (19.30)	881.1 (24.95)

Dimensions in inches (mm)

	A	B	C	D	H	H ₂	K	L	O	W
BW141AD-4	129.9 (3300)	65.4 (1660)	28.0 (710)	48.03 (1220)	91.34 (2320)	118.11 (3000)	15.75 (400)	177.95 (4520)	3.15 (80)	59.1 (1500)
BW151AD-4	129.9 (3300)	72.4 (1840)	28.15 (715)	48.03 (1220)	91.34 (2320)	118.11 (3000)	15.75 (400)	177.95 (4520)	3.15 (80)	66.1 (1680)

Standard Equipment

- Hydrostatic travel and vibration drive
- 2 amplitudes / 2 frequencies
- Hydrostatic articulated steering
- Crab steer right/left 6.7" (170mm)
- Automatic vibration operation
- Individual drum vibration control
- Operator's platform with:
 - two (2) steering wheels
 - adjustable seating position
- 2 travel levers with integrated switches for vibration
- Vehicle electronics with modular circuit technology
- High capacity plastic water tanks
- Pressurized water spray with 2 spray pumps
- Folding scraper design
- 4 integrated worklights
 - * Indicator and hazard lights
- ROPS/FOPS with seat belt
- Back-up alarm
- Speedometer

Optional Equipment

- ROPS cabin with seat belt with/without heating + outside mirror
- Rotary beacon
- Edge cutter
- Special painting
- Environmentally friendly oil
- Air Condition

Technical data

	BOMAG BW141AD-4		BOMAG BW151 AD-4 HF	
Weights				
Basic Weight with ROPS	lbs (kg)	16035 (7273)	16917 (7673)	(7673)
Operating Weight	lbs (kg)	17137 (7773)	17798 (8073)	(8073)
Axle load (front)	lbs (kg)	8157 (3700)	8598 (3900)	(3900)
Axle load (rear)	lbs (kg)	8378 (3800)	8819 (4000)	(4000)
Average static linear load (front)	pli (kg/cm)	138 (24.7)	130.1 (23)	(23)
Average static linear load (rear)	pli (kg/cm)	141.8 (25.3)	133.4 (24)	(24)
Dimensions				
Track Radius, inner	in (mm)	176.8 (4490)	173.2 (4400)	(4400)
Dimensions		see sketch	see sketch	
Driving Characteristics (depending on site conditions)				
Speed	mph (kmph)	0-6.5 (0-10.5)	0-6.5 (0-10.5)	(0-10.5)
Max. gradeability	%	40	40	
Drive				
Engine manufacturer		Deutz	Deutz	
Type		BF4M 2011	BF4M 2011	
Cooling		Oil	Oil	
Number of cylinders		4	4	
Performance SAE J1349	hp (kW)	80.5 (60)	80.5 (60)	(60)
Speed	rpm	2500	2500	
Fuel		diesel	diesel	
Electric Equipment	V	12	12	
Drive System		hydrostatic	hydrostatic	
Drum Driven		f + r	f + r	
Brakes				
Service brake		hydrostatic	hydrostatic	
Parking brake		SAHR	SAHR	
Steering				
Steering system		oscillating, articulating	oscillating, articulating	
Steering method		hydrostatic	hydrostatic	
Lateral displacement right/left	in (mm)		6.7 (170)	(170)
Vibratory system				
Vibrating drum		f, r, f + r	f, r, f + r	
Drive system		hydrostatic	hydrostatic	
Frequency - (low/high)	vpm (Hz)	2400/3600 (40/60)	2400/3600 (40/60)	(40/60)
Amplitude - (low/high)	in (mm)	0.013/0.028 (0.34/0.71)	0.012/0.026 (0.31/0.66)	(0.31/0.66)
Centrifugal force - (low/high)	lbs (kN)	15750/16875 (70/75)	15750/16875 (70/75)	(70/75)
Water Spray System				
Type of system		pressurized	pressurized	
Back-up system		2nd pump	2nd pump	
Capacities				
Fuel	gal (l)	42.3 (160)	42.3 (160)	(160)
Water	gal (l)	211.3 (800)	211.3 (800)	(800)

Technical modifications reserved. Machines may be shown with options.

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