

## Tandem Vibratory Rollers BW141AD-2, BW151AD-2

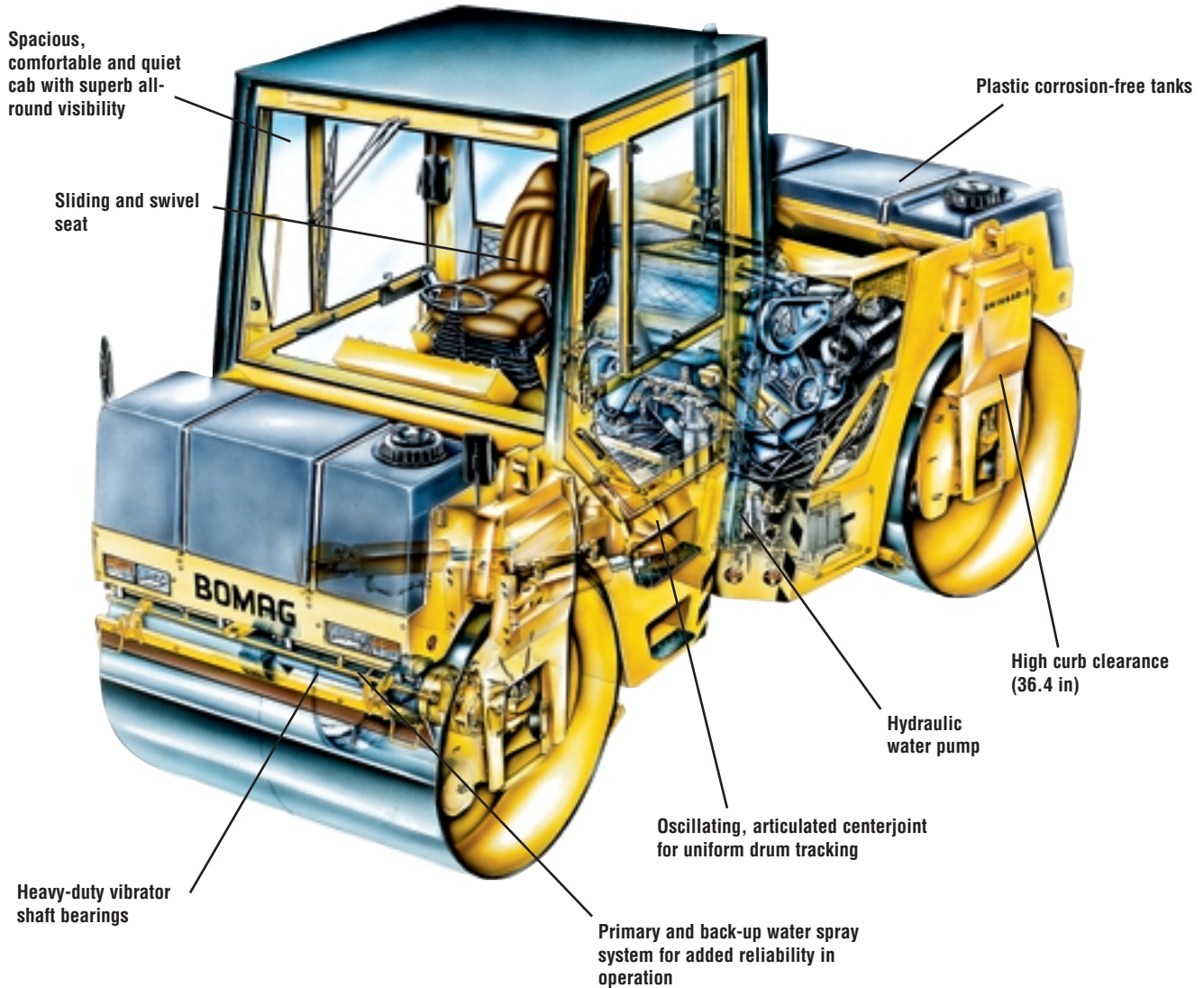


BW 141AD-2 - ASPHALTIC CONCRETE (material weight 140 lb/cu ft)						
# passes	rolling speed	area coverage sq yd/hr	"productivity in tons/hr by lift thickness, 100% efficiency"			
	(mph)		1.5 inches	2 inches	2.5 inches	3 inches
2	3.41	4921	391	521	642	772
3	3.41	3281	260	347	428	515
4	3.41	2461	195	260	321	386
5	3.41	1969	156	208	257	309
6	3.41	1640	130	174	214	257

BW 151AD-2 - ASPHALTIC CONCRETE (material weight 140 lb/cu ft)						
# passes	rolling speed	area coverage sq yd/hr	"productivity in tons/hr by lift thickness, 100% efficiency"			
	(mph)		1.5 inches	2 inches	2.5 inches	3 inches
2	3.41	5510	435	579	724	869
3	3.41	3673	290	386	483	579
4	3.41	2755	217	290	362	435
5	3.41	2204	174	232	290	348
6	3.41	1837	145	193	241	290

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 more than 10 impacts per foot at high vibration frequency setting. Actual compaction efficiency is determined by job conditions.

# BW141AD-2, BW151AD-2



■ *Equipped to handle a wide range of compaction applications...*

Bomag design engineers have developed the BW141AD-2 and BW151AD-2 tandem vibratory rollers to meet and exceed the requirements of today's contractors. These models come equipped with large diameter drums with thick shells to provide maximum strength and ensure a high quality finish. The lateral sliding driver's seat can be swivelled 90 degrees providing optimum visibility of the drum edges and work surface. These features combined with dual amplitudes, frequencies, and centrifugal forces deliver maximum productivity on applications ranging from granular bases to hot mix asphalt surfaces.

#### ■ Applications:

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



BW151AD-2 in action on highway construction

## Featuring...



Excellent visibility makes handling easy and avoids damage

### ■ Handling is Easier & Safer:

- Simple drum offset of both sides up to 6.7 inches with neutral light reduces damage in tight areas.
- Driver's seat can be moved to either side and swivelled 90 degrees for optimum driver comfort and visibility.
- Excellent all-round vision including drum surfaces for easier maneuvering and early warning of material pick-up on drums.
- Twin travel levers mounted either side of seat, ergonomic layout of controls and moveable steering wheel means no awkward stretching.
- Emergency stop activates the maintenance free multi-disk brakes of the travel motors and cuts travel drive for optimum safety should an emergency occur.

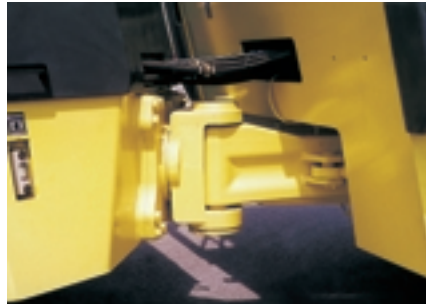


Excellent all-round vision means more comfort for driver and safer operation

## Heavy duty tandem models provide maximum versatility

### ■ Less Service & Maintenance:

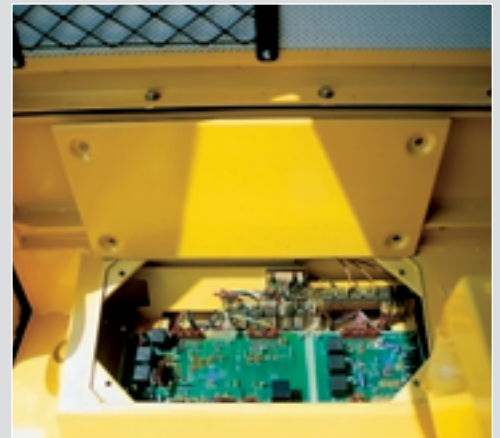
- Up to 20% lower maintenance costs than conventional rollers.
- Vibration bearings with lifetime lubrication.
- Non-corrosive water system with hydraulic pump ensures minimal water problems.
- Extended change intervals for hydraulic oil and filter up to 2000 hours or once in two years minimizes costs and service hours.
- Maintenance-free articulated steering design and spring-actuated brake system.
- Air-cooled Deutz engine with single injection pump and direct-drive alternator ensures maximum reliability.
- Easy access saves you time and money.
- All drive components are easily accessible.
- Visual checks for hydraulic oil filter and engine air filter.
- Quick and simple trouble shooting minimizes downtime through centralized electrical system mounted in the operators console.
- Corrosion-resistant printed circuit boards with LED fault indicators are designed for demanding site conditions.
- Hydraulic system test points are within easy reach.



Bolt-on heavy duty oscillating articulation joint provides long life

### ■ Achieve Maximum Productivity:

- Compact design with articulated frame and precision steering response provides maximum maneuverability and accurate drum tracking.
- High curb clearance up to 36.4 inches reduces costly damage and allows close working in tight areas.
- Large diameter drums guarantee high surface quality and minimize pushing and cracking on sensitive materials.
- High travel speeds with vibration coupled with superior drum performance results in increased productivity.



Diagnostic system makes fault finding easy and fast



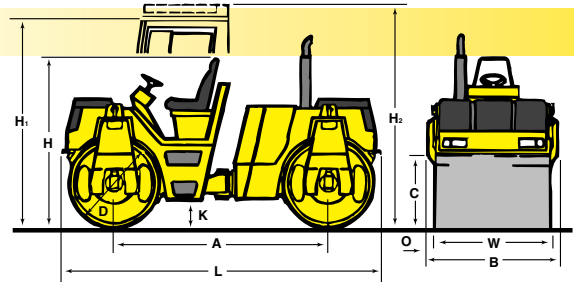
Easy access means fast servicing

*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-2, BW151AD-2



### Shipping dimensions

	in cubic feet (m <sup>3</sup> ) without/with ROPS	
BW141AD-2	544.4 (15.4)	767.3 (21.7)
BW151AD-2	602.7 (17.1)	849.5 (24.1)

### Standard Equipment

- Hydrostatic travel and vibration drives
- Bolt-on oscillating/articulation joint
- Hydrostatic articulated steering
- Spring-Applied, Hydraulically-Released (SAHR) parking brakes on each drum
- Crab-steering to both sides (6.7 inches)
- Hydraulically driven water pump
- Pressurized water spray system
- High capacity plastic water tanks
- Automatic vibration operation
- Vibration control in travel lever
- Independent vibration control of either drum
- Dual vibrating frequencies and amplitudes
- Laterally sliding/pivoting seat and controls assembly
- Pivoting steering wheel column
- Emergency STOP
- Spring-loaded, hinged scrapers (2 per drum)
- Speedometer
- ROPS / FOPS with seat belt
- Lights & turn signals (front & rear)
- Back up alarm

### Optional Equipment

- Special paint

### Dimensions in inches (mm)

	A	B	C	D	H	H <sub>1</sub>	H <sub>2</sub>	K	L	O	W
BW 141AD-2	114.2 (2900)	66.1 (1679)	36.4 (925)	47.2 (1199)	82.7 (2100)	111.2 (2825)	116.5 (2959)	15.2 (386)	172.0 (4369)	3.5 (90)	59.1 (1500)
BW 151AD-2	114.2 (2900)	73.2 (1860)	36.4 (925)	47.2 (1199)	82.7 (2100)	111.2 (2825)	116.5 (2959)	15.2 (386)	172.0 (4369)	3.5 (90)	66.1 (1680)

### Technical data

#### Weights

	lbs	(kg)	BOMAG BW 141AD-2	BOMAG BW 151AD-2
Basic weight with ROPS/FOPS	13814	(6266)	14586	(6616)
Operating weight	15015	(6811)	15785	(7160)
Axle load, drum (front/rear)	7460/7555	(3383/3427)	7844/7941	(3558/3602)
Static linear load (front/rear)	126.2/127.8	(22.6/22.8)	118.7/120.1	(21.2/21.4)

#### Dimensions

	in	(mm)	BOMAG BW 141AD-2	BOMAG BW 151AD-2
Working width	59.1	(1500)	66.1	(1680)
Side clearance	3.5	(90)	3.5	(90)
Track radius (inner)	150.6	(3825)	147.0	(3735)

#### Dimensions

see sketch

#### Driving Characteristics (depending on site conditions)

	mph	(kmph)	BOMAG BW 141AD-2	BOMAG BW 151AD-2
Speed (with vibration)	0 - 3.4	(0 - 5.4)	0 - 3.4	(0 - 5.4)
Speed (transport)	0 - 7.8	(0 - 12.5)	0 - 7.8	(0 - 12.5)
Max. gradeability without/with vibration	40/35		40/35	

#### Drive

	BOMAG BW 141AD-2	BOMAG BW 151AD-2
Engine manufacturer	Deutz	Deutz
Type	BF4L 1011	BF4L 1011
Cooling-cylinder heads	Air	Air
Cooling-cylinder liners	Oil	Oil
Number of cylinders	4	4
Performance ISO 9249	69.4 (51)	69.4 (51)
Speed	2500 rpm	2500 rpm
Performance SAE J1349	74 (55.2)	74 (55.2)
Speed	2500 rpm	2500 rpm
Electric equipment	12 V	12 V
Drive system	hydrostatic	hydrostatic
Drum driven	f + r	f + r

#### Brakes

	BOMAG BW 141AD-2	BOMAG BW 151AD-2
Service brake	hydrostatic	hydrostatic
Parking brake	SAHR	SAHR

#### Steering

	BOMAG BW 141AD-2	BOMAG BW 151AD-2
Steering system	oscillating, articulating	oscillating, articulating
Steering method	hydrostatic	hydrostatic
Steering steering angle ±	35 degrees	35 degrees
Oscillating angle ±	8 degrees	8 degrees

#### Vibratory system

	BOMAG BW 141AD-2	BOMAG BW 151AD-2
Vibrating drum	f + r, f, r	f + r, f, r
Drive system	hydrostatic	hydrostatic
Frequency	2400/3000 (40/50) vpm (Hz)	2400/3000 (40/50) vpm (Hz)
Amplitude	0.026/0.013 (0.66/0.33) in (mm)	0.024/0.012 (0.60/0.31) in (mm)
Centrifugal force (per drum)	12285/9810 (54.6/43.6) lbs (kN)	12285/9810 (54.6/43.6) lbs (kN)

#### Water spray system

	BOMAG BW 141AD-2	BOMAG BW 151AD-2
Water spray system type	pressurized	pressurized

#### Capacities

	gal	(l)	BOMAG BW 141AD-2	BOMAG BW 151AD-2
Fuel	34.3	(130)	34.3	(130)
Water	190.2	(720)	190.2	(720)
Hydraulic oil	15.9	(60)	15.9	(60)
Engine oil	2.5	(9.5)	2.5	(9.5)

Technical data subject to change without notice. Illustrations may show optional equipment.

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# BOMAG

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