

## Single Drum Vibratory Rollers BW211D-40, BW211PD-40



EARTHWORKS - High & Low Vibration Frequency Setting					
# passes	rolling speed (mph)	productivity in cu yd/hr by lift thickness, 100 % efficiency			
		8 inches	12 inches	24 inches	30 inches
2	2.5	1141	1712	3423	4279
3	2.5	761	1141	2282	2853
4	2.5	571	856	1712	2139
5	2.5	456	685	1369	1712
2	2.1	958	1438	2875	3594
3	2.1	639	958	1917	2396
4	2.1	479	719	1438	1797
5	2.1	383	575	1150	1438

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



# BW211-40 series



## ■ *The lower cost, high quality answer to your 84" compaction needs...*

The BOMAG BW211D-40 and BW211PD-40 continue the tradition in delivering cost effective, superior quality compaction rollers to today's construction market. Contractors appreciate the benefits of maximum operator comfort, superb compaction productivity, low maintenance efforts, and innovative options that enhance utilization and performance. The powerful diesel engine, heavy duty rear axle with no spin differential, and standard dual amplitude / dual frequency provide exceptional jobsite performance on granular, mixed cohesive and semi-cohesive soils.

### ■ **Applications:**

- Highway construction and maintenance
- Parking lots
- Landfill



*Designed specifically for soil compaction.*

## Featuring...



Maintenance-free, rugged, oscillating-articulation joint bolted on the outside of the front and rear frames

### Operation - Comfortable, Easier and Safer

- Vibration Isolated Operators platform
- Extremely low noise levels at operators ears even with vibration
- Multi-position, adjustable seat
- Optional Swivel Seat
- Reduced Stop to stop steering input
- Operator controls are strategically and ergonomically placed
- Easy single lever control for both travel direction, speed and vibration
- Backup Alarm is standard
- Excellent all around visibility for maximum safety

### Maximum Productivity

- Superb compaction performance allows achievable density with thicker lifts or less passes yielding better ROI
- High PLI, Centrifugal Forces, and Amplitudes
- Dual Vibration Frequencies and Dual Amplitudes for different jobsite requirements
- Wider Clearance between frame and drum combined with dual scrapers prevents material build up.
- Low emission, Tier III Diesel engine and high output drum drive provide improved traction performance.

### Less Service & Maintenance:

The purchase price is important, but so are the operating costs. Check these features:

- Maintenance Free Bolt On articulation joint, steering cylinder pins, and travel bearings eliminates daily grease points
- Quick access to all service and maintenance points in the engine compartment and the front drum.
- Central drain points for engine and hydraulic oils, and for engine coolant
- Drum vibration buffers can be replaced individually without the use of special tools
- Spring-Applied Hydraulically-Released (SAHR) brakes are maintenance free
- Recessed frame bolts reduce bolt head shearing and repair costs
- Engine Cooling Air Flow reduces radiator maintenance and dust creation from the jobsite
- Large filters for fuel, air, and oil give better protection to key components
- Corrosion Free plastic Fuel Tank
- BOMAG Hydraulic filter system extends hydraulic oil and filter change intervals to 2000 working hours or 2 years

### Innovative Options:

Compaction Measuring and/or Control Systems display show real time soil load bearing results avoiding over-compaction and reducing the number of rolling passes.

- BOMAG Evib Meter (BEM) – Analog gauge display of Evib values.
- BOMAG BTM Prof (BTM Prof) – Measuring system controls and documents the compaction process. Operator can view results on LCD Display and Document results via onboard printer

Padfoot and Smooth Shell Kits allow the roller to be quickly adapted to changing jobsite applications



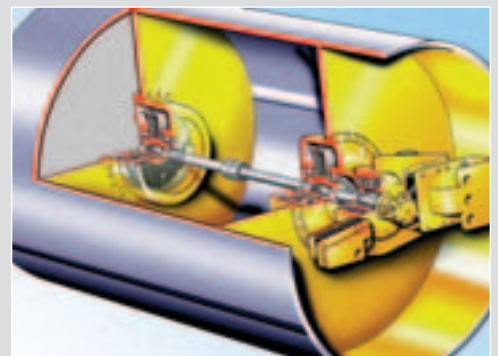
Large steel engine hood provides easy access to all service and maintenance points



Excellent all around visibility for maximum safety.



Individually changeable rubber buffers with no special tools or disassembly of the drum required



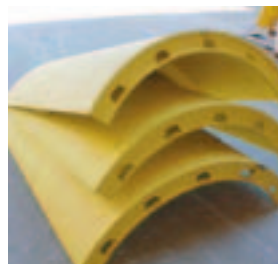
Standard dual amplitude enhances machines versatility



BTM shows the soil load bearing results in real time.



Padfoot Shell Kit for smooth drum equipped rollers.



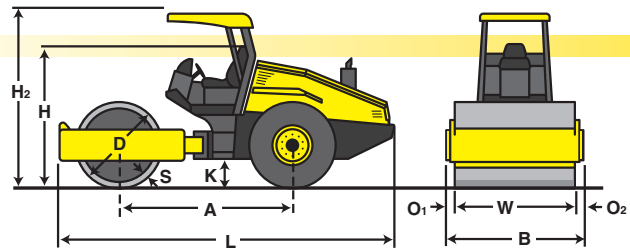
Smooth Shell Kit for padfoot drum equipped rollers.

# Technical Specifications

## BW211-40 Series

### Shipping dimensions

in cubic feet (m <sup>3</sup> )	without/with ROPS/FOPS	
BW211D-40	1052.4 (29.8)	1379 (39)
BW211PD-40	1052.4 (29.8)	1379 (39)



### Standard Equipment

- Hydrostatic drum and vibration drive
- Dual vibrating frequencies and amplitudes
- Hydrostatic articulated steering
- No spin differential with Spring Applied Hyd. Rel. (SAHR) brakes
- Bolt on oscillating, articulation joint
- Articulation lock
- Adjustable operators seat
- Single lever control for travel and vibration
- Drum scrapers
- Emergency stop
- Backup alarm
- ROPS/FOPS sun canopy w/seat belt
- Hour meter
- Audible and /or Visual warning indicators**
  - Engine oil pressure
  - Electrical charge control
  - Brake control
- Visual fluid indicators**
  - Fuel tank level
  - Hydraulic oil level
  - Engine coolant level

### Optional Equipment

- Working lights front/rear
- ROPS Cab with heating
- Air conditioning
- Padfoot drum segment kit (D)
- Smooth drum segment kit (PD)
- Swivel comfort seat
- Evib Meter (BEM)
- Terrameter (BTM Prof)
- Front frame ballast (+ 1540 lbs)
- Diamond tread rear tire ballast (+ 1760 lbs)
- Gauges: Speedometer, voltmeter, frequency, tachometer
- CD Radio (with cab option)
- Rotary beacon (permanent or portable)
- Special paint

### Dimensions in inches (mm)

	A	B	D	H	H <sub>2</sub>	K	L	O <sub>1</sub>	O <sub>2</sub>	S	W
BW211D-40	116.5 (2960)	88.6 (2250)	59.1 (1500)	89.3 (2268)	117 (2972)	19.3 (490)	229.9 (5840)	2.4 (60)	2.4 (60)	0.98 (25)	83.9 (2130)
BW211PD-40	116.5 (2960)	88.6 (2250)	58.3 (1480)	89.3 (2268)	117 (2972)	19.3 (490)	229.9 (5840)	2.4 (60)	2.4 (60)	0.98 (25)	83.9 (2130)

### Technical data

#### Weights

		BOMAG BW211D-40	BOMAG BW211PD-40
Operating Weight with ROPS/FOPS	lbs (kg)	22930 (10400)	25785 (11695)
Axle load, drum	lbs (kg)	13360 (6060)	16215 (7355)
Axle load, wheels	lbs (kg)	9570 (4340)	9570 (4340)
Static linear load (drum)	pli (kg/cm)	159.3 (28.5)	

#### Dimensions

		BOMAG BW211D-40	BOMAG BW211PD-40
Working width	in (mm)	83.9 (2130)	83.9 (2130)
Track Radius, inner	in (mm)	142.3 (3615)	142.3 (3615)

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

		BOMAG BW211D-40	BOMAG BW211PD-40
Speed (1)	mph (kmph)	0-3.1 (0-5)	0-3.1 (0-5)
Speed (2)	mph (kmph)	0-3.7 (0-6)	0-3.7 (0-6)
Speed (3)	mph (kmph)	0-5.6 (0-9)	0-5.6 (0-9)
Speed (4)	mph (kmph)	0-8.4 (0-13.5)	0-8.4 (0-13.5)
Max. gradeability without/with vibration	%	47/47	47/47

#### Drive

	BOMAG BW211D-40	BOMAG BW211PD-40
Engine manufacturer	Deutz	Deutz
Type	TCD2013L042V	TCD2013L042V
Cooling	water	water
Number of cylinders	4	4
Performance ISO 9249	hp (kW)	124 (92)
Speed	rpm	2200
Performance SAE J 1995	hp (kW)	133 (99)
Speed	rpm	2200
Fuel	diesel	diesel
Electric Equipment	V	12
Drive System	hydrostatic standard	hydrostatic standard
Drum Driven		

#### Drums and Tires

		BOMAG BW211D-40	BOMAG BW211PD-40
Drum width	in (mm)	83.9 (2130)	83.9 (2130)
Tire Tread		Diamond (R-3)	Tractor (R-1)
Drum diameter	in (mm)	59 (1500)	59 (1500)
Tire size		23.1-26/12PR	23.1-26/12PR

#### Brakes

	BOMAG BW211D-40	BOMAG BW211PD-40
Service brake	hydrostatic	hydrostatic
Parking brake	SAHR	SAHR

#### Steering

	BOMAG BW211D-40	BOMAG BW211PD-40
Steering system	oscillating, articulating	oscillating, articulating
Steering method	hydrostatic	hydrostatic
Steering angle +/-	degrees	35
Oscillating angle +/-	degrees	12

#### Vibratory system

	BOMAG BW211D-40	BOMAG BW211PD-40
Drive system	hydrostatic	hydrostatic
Frequency	vpm (Hz)	1800/2160 (30/36)
Amplitude	in (mm)	0.071/0.035 (1.8/0.9)
Centrifugal force	lbs (kN)	53100/38250 (236/170)

#### Capacities

		BOMAG BW211D-40	BOMAG BW211PD-40
Fuel	gal (l)	66 (250)	66 (250)

Technical modifications reserved. Machines may be shown with options.



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